

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1J-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/1/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,430.54	PROPOSAL 1 (OWB)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,626.99	1,584.14	155.30	121.89	4.647	CC, ES
ABND VERT COSSLETT B UNIT 1 - OWB - Design #1	1,700.00	1,651.21	157.96	122.92	4.508	SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,005.92	1,009.71	262.93	242.84	13.086	CC
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,100.00	1,082.62	263.55	241.79	12.112	ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	1,600.00	1,560.17	309.91	277.39	9.531	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	500.00	502.00	79.80	76.66	25.385	CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,444.18	2,682.94	2,356.35	8.215	SF
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	500.00	502.00	70.00	66.86	22.267	CC, ES
COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,416.40	2,359.52	2,034.28	7.255	SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	500.00	502.00	59.92	56.78	19.060	CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,450.25	2,011.99	1,688.65	6.223	SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	500.00	502.00	49.84	46.70	15.854	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,790.57	1,665.29	1,338.22	5.092	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	500.00	502.00	40.04	36.90	12.737	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,705.82	1,344.54	1,023.00	4.182	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	500.00	501.00	29.96	26.82	9.542	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	19,430.54	18,938.05	1,019.83	694.75	3.137	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	500.00	501.00	19.88	16.74	6.331	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	19,430.54	19,019.06	677.28	359.63	2.132	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	500.00	501.00	10.08	6.94	3.210	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	19,430.54	19,382.37	348.77	25.55	1.079	Level 2, SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	400.00	10.08	7.66	4.166	CC
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	19,430.54	19,520.07	335.14	7.15	1.022	Level 2, ES, SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	300.00	20.16	18.46	11.840	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	19,430.54	19,892.36	684.46	370.97	2.183	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	200.00	29.96	28.97	30.392	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	19,430.54	19,800.49	1,050.02	720.17	3.183	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	100.00	40.04	39.77	148.936	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	19,430.54	20,191.00	1,379.75	1,053.84	4.234	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	500.00	502.00	90.16	87.02	28.680	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	19,430.54	18,141.67	3,000.99	2,676.47	9.247	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	7,892.89	16,236.00	2,025.81	1,841.67	11.001	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,000.00	16,236.00	2,028.64	1,840.18	10.764	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,400.00	16,177.76	2,087.51	1,886.31	10.375	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,622.09	16,659.00	2,598.11	2,413.91	14.105	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	7,700.00	16,659.00	2,599.28	2,412.43	13.911	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,300.00	16,659.33	2,685.10	2,482.52	13.255	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
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Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,824.21	16,530.00	2,495.39	2,312.08	13.613	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	7,900.00	16,530.00	2,496.54	2,310.62	13.428	ES
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,500.00	16,530.00	2,585.28	2,383.69	12.825	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,377.97			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	100.00	85.49	1,378.08	1,377.81	5,126.007	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,800.00	18,800.00	6,053.06	5,710.19	17.654	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	522.57	518.01	1,367.84	1,364.63	426.197	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	19,430.54	17,340.00	5,799.43	5,467.03	17.447	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	287.79	278.79	1,361.24	1,359.79	940.397	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	500.00	488.89	1,361.49	1,358.55	462.187	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	19,430.54	17,471.00	5,703.52	5,370.55	17.129	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	0.00	0.00	1,353.48			
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	383.76	1,354.16	1,352.19	685.904	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	19,430.54	17,405.49	5,343.04	5,013.48	16.213	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	326.93	318.00	1,313.39	1,312.45	1,385.260	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	505.59	497.85	1,313.56	1,311.65	687.250	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	19,430.54	17,313.03	5,068.99	4,741.79	15.492	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	90.48	1,336.90	1,336.62	4,768.873	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	381.02	1,337.68	1,335.56	631.318	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	19,430.54	17,796.00	4,920.77	4,586.87	14.737	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	100.00	89.73	1,328.99	1,328.70	4,684.770	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	500.00	483.70	1,329.56	1,326.89	497.049	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	19,430.54	17,487.00	4,827.82	4,495.11	14.510	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	326.37	316.37	1,320.27	1,318.50	745.229	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	500.00	477.94	1,321.06	1,318.10	446.829	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	19,430.54	17,253.70	4,459.37	4,143.14	14.101	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	100.00	89.50	1,312.80	1,312.52	4,632.338	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	800.00	854.32	1,315.68	1,310.65	261.432	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	19,430.54	17,583.00	4,134.21	3,802.14	12.450	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	929.59	1,013.00	1,303.28	1,297.16	212.854	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	1,000.00	1,085.70	1,303.63	1,296.93	194.574	ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	19,430.54	17,590.96	3,927.22	3,597.24	11.901	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	0.00	0.00	1,296.96			
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	1,405.18	1,585.41	1,298.52	1,287.31	115.877	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	19,400.00	17,479.00	3,787.47	3,470.10	11.934	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	1,233.58	1,383.87	1,270.53	1,261.14	135.217	CC, ES
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	19,430.54	17,812.27	3,590.66	3,257.42	10.775	SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	488.94	481.91	246.60	243.61	82.421	CC
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	500.00	492.49	246.62	243.54	80.245	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	273.42			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	90.63	273.54	273.25	968.349	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	5,100.00	5,100.00	3,152.64	3,098.36	58.077	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	0.00	0.00	262.13			
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	200.00	189.85	262.66	261.76	290.950	ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	2,400.00	2,298.95	614.18	590.99	26.486	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,381.25	1,402.37	122.23	112.42	12.461	CC
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,400.00	1,420.53	122.38	112.40	12.270	ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,500.00	1,516.81	128.63	117.72	11.794	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	159.30	152.13	268.11	267.52	450.365	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	189.62	268.32	267.42	298.581	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	3,200.00	2,867.84	1,301.60	1,268.55	39.380	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,024.49	1,047.94	185.93	178.46	24.913	CC, ES

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Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
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Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 22-T1N-R68W						
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,200.00	1,208.47	202.10	192.97	22.140	SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	2,008.39	1,991.72	131.96	113.08	6.988	CC, ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	2,100.00	2,079.30	134.96	115.44	6.915	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,366.07	15,353.00	362.20	253.96	3.346	CC
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,400.00	15,353.00	364.76	252.73	3.256	ES
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	9,450.00	15,353.00	377.56	261.09	3.242	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,389.49	15,243.00	511.50	356.90	3.309	CC, ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	9,400.00	15,243.00	511.69	356.91	3.306	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,056.91	15,115.16	407.47	237.37	2.395	CC
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,150.00	15,134.00	416.13	230.15	2.238	ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	9,200.00	15,134.00	428.57	235.34	2.218	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,350.00	15,352.00	1,083.75	918.70	6.566	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	9,479.26	15,352.00	1,064.57	904.07	6.633	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,432.66	6,190.26	277.59	176.22	2.738	CC, ES
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	7,500.00	6,245.57	280.66	177.53	2.721	SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	6,408.06	5,482.24	153.66	63.47	1.704	CC, ES, SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	6,769.08	5,720.39	37.80	-55.86	0.404	Level 1, CC, ES, SF
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	14,656.59	7,829.51	3,459.50	3,346.07	30.500	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	15,100.00	7,827.39	3,487.80	3,372.13	30.152	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	15,936.35	7,923.61	3,448.85	3,311.79	25.164	CC, ES
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	16,100.00	7,921.58	3,452.73	3,315.42	25.145	SF

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 23-T1N-R68W						
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,120.72	7,702.90	2,467.59	2,376.64	27.132	CC, ES
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	13,500.00	7,696.49	2,496.56	2,403.84	26.925	SF
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,193.75	3,583.83	651.78	600.68	12.755	CC
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,200.00	3,588.42	651.80	600.58	12.727	ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	4,400.00	3,738.01	667.39	613.13	12.301	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,764.89	4,892.00	1,400.34	1,339.97	23.197	CC
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	4,800.00	4,909.09	1,400.61	1,339.79	23.029	ES
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	5,300.00	5,184.63	1,459.51	1,393.28	22.038	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	6,765.72	5,800.43	189.13	89.87	1.905	CC, ES, SF
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,774.16	3,881.15	1,104.20	1,048.74	19.909	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	4,800.00	3,905.12	1,104.27	1,048.22	19.700	ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	6,300.00	5,316.61	1,397.90	1,312.09	16.290	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,794.61	7,768.22	44.35	-32.09	0.580	Level 1, CC
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	9,800.00	7,768.24	44.68	-37.93	0.541	Level 1, ES, SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,400.00	7,760.40	1,543.37	1,439.20	14.816	SF
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,200.00	7,767.46	1,316.14	1,237.47	16.730	ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	11,206.14	7,767.52	1,316.13	1,237.50	16.739	CC
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,250.00	7,641.04	512.51	428.46	6.098	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	9,434.19	7,725.39	467.99	397.04	6.596	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,150.00	7,612.54	1,933.04	1,848.05	22.743	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,550.00	7,783.90	1,822.06	1,748.76	24.856	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	9,553.37	7,784.55	1,822.05	1,748.84	24.885	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,550.00	7,724.66	2,048.24	1,941.89	19.259	SF
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,500.00	7,746.45	1,792.91	1,718.95	24.239	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	10,521.55	7,746.59	1,792.78	1,719.23	24.372	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	11,827.09	7,890.28	1,757.63	1,666.66	19.322	CC, ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	12,800.00	7,941.92	2,008.47	1,890.31	16.998	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,255.55	7,851.58	216.37	136.33	2.703	CC
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,300.00	7,851.67	220.89	133.25	2.520	ES
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	11,400.00	7,851.88	260.16	152.40	2.414	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,850.03	4,128.67	2,020.73	1,972.04	41.504	CC
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	3,900.00	4,158.02	2,021.10	1,971.63	40.859	ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	5,000.00	4,789.57	2,205.65	2,142.64	35.004	SF
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	14,074.50	7,845.61	2,632.83	2,524.20	24.236	CC, ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	14,300.00	7,851.26	2,642.46	2,533.07	24.155	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,100.00	7,782.29	765.32	667.23	7.802	SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	13,243.50	7,778.34	751.76	656.31	7.876	CC, ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,457.90	7,974.24	1,747.59	1,634.98	15.518	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	14,500.00	7,974.44	1,748.10	1,633.85	15.301	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,300.00	7,978.37	1,939.89	1,794.81	13.371	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,900.00	7,642.00	944.68	743.17	4.688	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,200.00	7,642.00	878.69	697.65	4.854	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	10,250.56	7,642.00	877.23	698.93	4.920	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	12,469.75	7,673.00	1,563.55	1,374.32	8.263	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	12,500.00	7,673.00	1,563.84	1,374.48	8.259	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	12,461.55	7,706.00	272.68	82.97	1.437	Level 3, CC, ES, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,081.62	7,685.00	13.12	-196.63	0.063	Level 1, CC, SF
EXIST VERT HELEN 34-23 - OWB - Design #1	14,100.00	7,685.00	22.58	-212.83	0.096	Level 1, ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,601.46	7,677.00	1,343.54	1,152.85	7.046	CC, ES
EXIST VERT HELEN 43-23 - OWB - Design #1	13,000.00	7,677.00	1,401.41	1,198.06	6.892	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,529.27	7,683.00	849.85	647.74	4.205	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,600.00	7,683.00	852.78	647.41	4.152	ES
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,700.00	7,683.00	866.83	656.32	4.118	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 26-T1N-R68W						
ABND VERT ALAUX 1 - OWB - Design #1	15,267.67	5,050.00	3,003.33	2,894.88	27.693	CC
ABND VERT ALAUX 1 - OWB - Design #1	15,300.00	5,050.00	3,003.50	2,894.86	27.644	ES
ABND VERT ALAUX 1 - OWB - Design #1	16,900.00	5,050.00	3,418.26	3,284.11	25.481	SF
ABND VERT ALAUX 2 - OWB - Design #1	15,272.27	5,450.00	3,536.73	3,390.52	24.189	CC
ABND VERT ALAUX 2 - OWB - Design #1	15,300.00	5,450.00	3,536.84	3,390.49	24.166	ES
ABND VERT ALAUX 2 - OWB - Design #1	15,900.00	5,450.00	3,592.01	3,441.86	23.923	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,500.00	7,721.75	2,487.25	2,361.60	19.795	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	15,533.88	7,720.83	2,487.02	2,361.39	19.796	CC, ES
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,200.00	7,748.00	2,389.31	2,112.86	8.643	ES, SF
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	18,213.85	7,748.00	2,389.27	2,112.87	8.644	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,884.98	5,042.00	2,908.18	2,759.36	19.542	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,900.00	5,042.00	2,908.22	2,759.08	19.500	ES
ABND VERT GOLTL 1 - OWB - Design #1	19,200.00	5,042.00	3,191.67	3,009.00	17.472	SF
ABND VERT GOLTL 2 - OWB - Design #1	19,203.71	5,020.00	2,927.26	2,766.26	18.181	CC
ABND VERT GOLTL 2 - OWB - Design #1	19,300.00	5,020.00	2,928.84	2,765.65	17.948	ES
ABND VERT GOLTL 2 - OWB - Design #1	19,430.54	5,020.00	2,936.03	2,769.71	17.652	SF
ABND VERT JL SEARS 1 - OWB - Design #1	16,600.49	5,125.00	3,751.74	3,597.95	24.395	CC, ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,100.00	5,125.00	3,784.84	3,628.55	24.216	SF
ABND VERT JL SEARS 2 - OWB - Design #1	16,567.46	5,148.00	2,913.38	2,789.40	23.500	CC, ES
ABND VERT JL SEARS 2 - OWB - Design #1	17,700.00	5,148.00	3,125.77	2,988.73	22.810	SF
ABND VERT MANN 1 - OWB - Design #1	17,868.20	5,050.00	2,661.07	2,553.74	24.795	CC
ABND VERT MANN 1 - OWB - Design #1	17,900.00	5,050.00	2,661.26	2,553.53	24.704	ES
ABND VERT MANN 1 - OWB - Design #1	19,430.54	5,050.00	3,085.80	2,933.47	20.257	SF
ABND VERT MANN 2 - OWB - Design #1	19,208.45	5,048.00	2,654.45	2,536.76	22.555	CC, ES
ABND VERT MANN 2 - OWB - Design #1	19,430.54	5,048.00	2,663.72	2,542.07	21.897	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,500.00	7,797.77	940.63	824.22	8.080	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,669.02	7,796.94	925.32	812.36	8.191	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,473.45	7,931.00	3,280.87	3,105.63	18.722	CC, ES
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	18,600.00	7,929.88	3,283.31	3,107.80	18.707	SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	19,430.54	8,150.39	3,385.03	3,179.01	16.431	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,374.96	7,960.99	2,871.11	2,674.64	14.613	CC, ES
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	19,400.00	7,960.92	2,871.22	2,674.73	14.612	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,700.00	7,897.23	1,429.81	1,263.65	8.605	SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,800.00	7,896.13	1,423.98	1,259.01	8.632	ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	17,833.20	7,895.77	1,423.59	1,259.11	8.655	CC
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,000.00	8,022.33	1,311.36	1,117.08	6.750	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,100.00	8,023.94	1,306.25	1,114.30	6.805	ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	19,116.86	8,024.21	1,306.14	1,114.66	6.821	CC
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	19,430.54	8,138.30	2,130.09	1,919.34	10.107	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,400.00	8,045.09	836.49	654.76	4.603	SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	18,497.06	8,044.12	830.84	653.39	4.682	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,123.35	7,894.02	3,298.80	3,144.26	21.346	CC, ES
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	17,300.00	7,884.78	3,303.52	3,148.55	21.316	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,900.00	7,948.79	2,096.39	1,940.30	13.430	SF
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	17,095.69	7,943.56	2,087.25	1,932.41	13.480	CC, ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,000.00	7,786.61	882.71	724.03	5.563	SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,100.00	7,784.84	872.03	716.31	5.600	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	17,143.74	7,784.06	870.93	716.84	5.652	CC
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	16,313.66	7,754.31	2,772.67	2,634.44	20.059	CC, ES, SF
EXIST VERT ROBERTS 2 - OWB - Design #1	16,639.13	7,703.00	1,177.81	928.23	4.719	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	16,700.00	7,703.00	1,179.38	926.58	4.665	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,900.00	7,703.00	1,206.35	944.22	4.602	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,847.77	7,684.00	401.70	165.18	1.698	CC

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SEC 26-T1N-R68W						
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,900.00	7,684.00	405.08	162.64	1.671	ES, SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,000.00	7,709.00	1,426.16	1,199.33	6.287	SF
SI VERT ALAUX 26-3 - OWB - Design #1	15,100.00	7,709.00	1,421.36	1,195.58	6.295	ES
SI VERT ALAUX 26-3 - OWB - Design #1	15,118.37	7,709.00	1,421.24	1,195.67	6.301	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,889.04	7,706.00	860.75	573.75	2.999	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,900.00	7,706.00	860.82	573.01	2.991	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	19,000.00	7,706.00	867.88	573.52	2.948	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,400.00	7,709.00	1,245.79	997.90	5.026	SF
SI VERT SEARS 22-26 - OWB - Design #1	16,461.25	7,709.00	1,244.28	997.49	5.042	CC, ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,580.84	5,425.00	2,554.61	2,408.04	17.430	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,600.00	5,425.00	2,554.68	2,407.68	17.378	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	17,800.00	5,425.00	2,830.61	2,649.19	15.602	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,263.22	5,450.00	2,250.77	2,162.09	25.379	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,300.00	5,450.00	2,251.07	2,161.87	25.234	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	16,800.00	5,450.00	2,725.37	2,578.76	18.589	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,585.58	5,450.00	2,251.47	2,152.65	22.784	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,600.00	5,450.00	2,251.51	2,152.51	22.742	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	18,100.00	5,450.00	2,713.41	2,560.68	17.766	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,258.49	5,400.00	2,554.06	2,420.66	19.146	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,300.00	5,400.00	2,554.39	2,420.11	19.023	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	16,600.00	5,400.00	2,884.94	2,712.80	16.759	SF

Offset Design												Offset Site Error:	0.00 usft
SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1												Offset Well Error:	0.00 usft
Survey Program: 0-INC-ONLY													
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
0.00	0.00	0.00	0.00	0.00	0.00	29.99	232.42	134.12	268.70				
100.00	100.00	86.00	86.00	0.13	0.68	29.99	232.42	134.12	268.34	267.52	0.82	328.293	
200.00	200.00	186.00	186.00	0.49	2.30	29.99	232.42	134.12	268.34	265.55	2.79	96.247	
300.00	300.00	286.00	286.00	0.85	4.04	29.99	232.42	134.12	268.34	263.45	4.89	54.855	
400.00	400.00	386.00	386.00	1.21	5.79	29.99	232.42	134.12	268.34	261.34	7.00	38.358	
500.00	500.00	486.00	486.00	1.57	7.53	29.99	232.42	134.12	268.34	259.24	9.10	29.490	
600.00	599.98	585.98	585.98	1.92	9.28	-35.60	232.42	134.12	266.92	255.72	11.20	23.834	
700.00	699.84	685.84	685.84	2.28	11.02	-36.31	232.42	134.12	262.68	249.38	13.30	19.755	
800.00	799.45	785.45	785.45	2.64	12.76	-37.55	232.42	134.12	255.70	240.30	15.40	16.607	
900.00	898.70	884.70	884.70	3.02	14.49	-39.40	232.42	134.12	246.13	228.63	17.50	14.066	
1,000.00	997.47	983.47	983.47	3.41	16.21	-41.97	232.42	134.12	234.20	214.60	19.60	11.947	
1,100.00	1,095.62	1,081.62	1,081.62	3.84	17.93	-45.46	232.42	134.12	220.29	198.57	21.72	10.143	
1,200.00	1,193.06	1,179.06	1,179.06	4.29	19.63	-50.12	232.42	134.12	204.95	181.10	23.85	8.594	
1,300.00	1,289.64	1,275.64	1,275.64	4.78	21.31	-56.27	232.42	134.12	189.08	163.07	26.01	7.270	
1,400.00	1,385.27	1,371.27	1,371.27	5.32	22.98	-64.29	232.42	134.12	174.07	145.85	28.22	6.168	
1,500.00	1,479.82	1,465.82	1,465.82	5.90	24.63	-74.43	232.42	134.12	161.99	131.50	30.49	5.312	
1,600.00	1,573.17	1,559.17	1,559.17	6.53	26.26	-86.51	232.42	134.12	155.64	122.84	32.79	4.746	
1,626.99	1,598.14	1,584.14	1,584.14	6.72	26.70	-90.00	232.42	134.12	155.30	121.89	33.42	4.647	CC, ES
1,700.00	1,665.21	1,651.21	1,651.21	7.23	27.87	-99.63	232.42	134.12	157.96	122.92	35.04	4.508	SF
1,800.00	1,755.84	1,741.84	1,741.84	7.98	29.45	-112.37	232.42	134.12	170.81	133.67	37.14	4.599	
1,900.00	1,844.94	1,830.94	1,830.94	8.80	31.00	-123.52	232.42	134.12	194.14	155.07	39.07	4.968	
2,000.00	1,932.39	1,918.39	1,918.39	9.68	32.53	-132.61	232.42	134.12	226.58	185.68	40.90	5.539	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,100.00	2,018.11	2,004.11	2,004.11	10.63	34.03	-139.77	232.42	134.12	266.43	223.75	42.68	6.243		
2,200.00	2,101.97	2,087.97	2,087.97	11.65	35.49	-145.34	232.42	134.12	312.30	267.88	44.42	7.030		
2,300.00	2,183.88	2,169.88	2,169.88	12.74	36.92	-149.68	232.42	134.12	363.18	317.03	46.15	7.870		
2,400.00	2,263.74	2,249.74	2,249.74	13.90	38.31	-153.10	232.42	134.12	418.37	370.52	47.85	8.743		
2,431.61	2,288.54	2,274.54	2,274.54	14.29	38.75	-154.03	232.42	134.12	436.62	388.23	48.39	9.023		
2,500.00	2,341.97	2,327.97	2,327.97	15.13	39.68	-156.20	232.42	134.12	476.77	427.23	49.54	9.623		
2,600.00	2,420.08	2,406.08	2,406.08	16.37	41.04	-158.82	232.42	134.12	536.19	484.95	51.24	10.464		
2,700.00	2,498.20	2,484.20	2,484.20	17.63	42.41	-160.95	232.42	134.12	596.22	543.27	52.95	11.260		
2,800.00	2,576.32	2,562.32	2,562.32	18.89	43.77	-162.69	232.42	134.12	656.69	602.02	54.67	12.011		
2,900.00	2,654.43	2,640.43	2,640.43	20.17	45.13	-164.16	232.42	134.12	717.51	661.10	56.40	12.721		
3,000.00	2,732.55	2,718.55	2,718.55	21.45	46.50	-165.39	232.42	134.12	778.58	720.43	58.14	13.391		
3,100.00	2,810.67	2,803.33	2,796.67	22.74	47.98	-166.46	232.42	134.12	839.85	779.84	60.00	13.996		
3,200.00	2,888.78	2,874.78	2,874.78	24.03	49.22	-167.38	232.42	134.12	901.28	839.64	61.64	14.622		
3,300.00	2,966.90	2,952.90	2,952.90	25.33	50.59	-168.18	232.42	134.12	962.83	899.44	63.40	15.188		
3,400.00	3,045.02	3,031.02	3,031.02	26.63	51.95	-168.89	232.42	134.12	1,024.50	959.34	65.16	15.723		
3,500.00	3,123.13	3,109.13	3,109.13	27.94	53.31	-169.52	232.42	134.12	1,086.25	1,019.33	66.92	16.231		
3,600.00	3,201.25	3,187.25	3,187.25	29.24	54.68	-170.09	232.42	134.12	1,148.07	1,079.38	68.69	16.713		
3,700.00	3,279.37	3,265.37	3,265.37	30.55	56.04	-170.59	232.42	134.12	1,209.96	1,139.50	70.47	17.171		
3,800.00	3,357.49	3,343.49	3,343.49	31.86	57.40	-171.05	232.42	134.12	1,271.90	1,199.66	72.24	17.606		
3,900.00	3,435.60	3,421.60	3,421.60	33.18	58.77	-171.47	232.42	134.12	1,333.89	1,259.87	74.02	18.021		
4,000.00	3,513.72	3,500.28	3,499.72	34.49	60.14	-171.84	232.42	134.12	1,395.91	1,320.10	75.81	18.413		
4,100.00	3,591.84	3,577.84	3,577.84	35.81	61.49	-172.19	232.42	134.12	1,457.98	1,380.39	77.58	18.792		
4,200.00	3,669.95	3,655.95	3,655.95	37.12	62.86	-172.51	232.42	134.12	1,520.07	1,440.70	79.37	19.152		
4,300.00	3,748.07	3,734.07	3,734.07	38.44	64.22	-172.80	232.42	134.12	1,582.18	1,501.03	81.16	19.495		
4,400.00	3,826.19	3,812.19	3,812.19	39.76	65.58	-173.08	232.42	134.12	1,644.33	1,561.38	82.95	19.824		
4,500.00	3,904.30	3,909.70	3,890.30	41.08	67.29	-173.33	232.42	134.12	1,706.49	1,621.41	85.07	20.059		
4,600.00	3,982.42	3,968.42	3,968.42	42.40	68.31	-173.56	232.42	134.12	1,768.67	1,682.14	86.53	20.440		
4,700.00	4,060.54	4,046.54	4,046.54	43.72	69.67	-173.78	232.42	134.12	1,830.87	1,742.55	88.32	20.729		
4,800.00	4,138.66	4,124.66	4,124.66	45.05	71.04	-173.98	232.42	134.12	1,893.08	1,802.97	90.12	21.007		
4,900.00	4,216.77	4,202.77	4,202.77	46.37	72.40	-174.18	232.42	134.12	1,955.31	1,863.40	91.91	21.273		
5,000.00	4,294.89	4,280.89	4,280.89	47.69	73.76	-174.36	232.42	134.12	2,017.55	1,923.84	93.71	21.529		
5,100.00	4,373.01	4,359.01	4,359.01	49.02	75.13	-174.52	232.42	134.12	2,079.81	1,984.30	95.51	21.776		
5,200.00	4,451.12	4,437.12	4,437.12	50.34	76.49	-174.68	232.42	134.12	2,142.07	2,044.76	97.31	22.013		
5,300.00	4,529.24	4,515.24	4,515.24	51.67	77.85	-174.83	232.42	134.12	2,204.34	2,105.23	99.11	22.241		
5,400.00	4,607.36	4,593.36	4,593.36	52.99	79.21	-174.90	232.42	134.12	2,266.62	2,167.00	99.98	22.673		
5,500.00	4,685.47	4,593.36	4,593.36	54.32	78.51	-174.90	232.42	134.12	2,331.92	2,232.01	99.91	23.339		
5,600.00	4,763.59	4,593.36	4,593.36	55.64	78.51	-174.90	232.42	134.12	2,399.27	2,299.52	99.76	24.051		
5,700.00	4,841.71	4,593.36	4,593.36	56.97	78.51	-174.90	232.42	134.12	2,468.84	2,369.31	99.53	24.806		
5,800.00	4,919.83	4,593.36	4,593.36	58.30	78.51	-174.90	232.42	134.12	2,540.44	2,441.20	99.24	25.599		
5,900.00	4,997.94	4,593.36	4,593.36	59.62	78.51	-174.90	232.42	134.12	2,613.90	2,514.99	98.91	26.427		
6,000.00	5,076.06	4,593.36	4,593.36	60.95	78.51	-174.90	232.42	134.12	2,689.08	2,590.54	98.54	27.288		
6,100.00	5,154.18	4,593.36	4,593.36	62.28	78.51	-174.90	232.42	134.12	2,765.83	2,667.68	98.15	28.179		
6,200.00	5,232.29	4,593.36	4,593.36	63.61	78.51	-174.90	232.42	134.12	2,844.02	2,746.28	97.74	29.098		
6,300.00	5,310.41	4,593.36	4,593.36	64.93	78.51	-174.90	232.42	134.12	2,923.55	2,826.23	97.31	30.042		
6,400.00	5,388.53	4,593.36	4,593.36	66.26	78.51	-174.90	232.42	134.12	3,004.30	2,907.41	96.88	31.010		
6,500.00	5,466.64	4,593.36	4,593.36	67.59	78.51	-174.90	232.42	134.12	3,086.17	2,989.73	96.44	31.999		
6,600.00	5,544.76	4,593.36	4,593.36	68.92	78.51	-174.90	232.42	134.12	3,169.09	3,073.08	96.01	33.008		
6,700.00	5,622.88	4,593.36	4,593.36	70.25	78.51	-174.90	232.42	134.12	3,252.96	3,157.39	95.58	34.036		
6,800.00	5,701.00	4,593.36	4,593.36	71.58	78.51	-174.90	232.42	134.12	3,337.73	3,242.58	95.15	35.079		
6,900.00	5,779.11	4,593.36	4,593.36	72.91	78.51	-174.90	232.42	134.12	3,423.31	3,328.59	94.73	36.139		
7,000.00	5,857.23	4,593.36	4,593.36	74.23	78.51	-174.90	232.42	134.12	3,509.66	3,415.35	94.32	37.212		
7,100.00	5,935.35	4,593.36	4,593.36	75.56	78.51	-174.90	232.42	134.12	3,596.72	3,502.81	93.92	38.298		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,200.00	6,013.46	4,553.00	4,553.00	76.89	78.51	-174.90	232.42	134.12	3,684.43	3,590.91	93.53	39.395		
7,300.00	6,091.58	4,553.00	4,553.00	78.22	78.51	-174.90	232.42	134.12	3,772.76	3,679.61	93.15	40.503		
7,400.00	6,169.70	4,553.00	4,553.00	79.55	78.51	-174.90	232.42	134.12	3,861.65	3,768.87	92.78	41.620		
7,500.00	6,247.81	4,553.00	4,553.00	80.88	78.51	-174.90	232.42	134.12	3,951.08	3,858.65	92.43	42.746		
7,600.00	6,325.93	4,553.00	4,553.00	82.21	78.51	-174.90	232.42	134.12	4,041.00	3,948.91	92.09	43.880		
7,700.00	6,404.05	4,553.00	4,553.00	83.54	78.51	-174.90	232.42	134.12	4,131.39	4,039.62	91.77	45.020		
7,800.00	6,482.17	4,553.00	4,553.00	84.87	78.51	-174.90	232.42	134.12	4,222.20	4,130.75	91.46	46.166		
7,900.00	6,560.28	4,553.00	4,553.00	86.20	78.51	-174.90	232.42	134.12	4,313.43	4,222.27	91.16	47.318		
8,000.00	6,638.40	4,553.00	4,553.00	87.53	78.51	-174.90	232.42	134.12	4,405.03	4,314.16	90.87	48.474		
8,100.00	6,716.52	4,553.00	4,553.00	88.86	78.51	-174.90	232.42	134.12	4,497.00	4,406.39	90.60	49.634		
8,200.00	6,794.63	4,553.00	4,553.00	90.20	78.51	-174.90	232.42	134.12	4,589.30	4,498.95	90.35	50.797		
8,300.00	6,872.75	4,553.00	4,553.00	91.53	78.51	-174.90	232.42	134.12	4,681.91	4,591.81	90.10	51.962		
8,400.00	6,950.87	4,553.00	4,553.00	92.86	78.51	-174.90	232.42	134.12	4,774.83	4,684.96	89.87	53.130		
8,500.00	7,028.98	4,553.00	4,553.00	94.19	78.51	-174.90	232.42	134.12	4,868.02	4,778.37	89.65	54.298		
8,600.00	7,107.10	4,553.00	4,553.00	95.52	78.51	-174.90	232.42	134.12	4,961.48	4,872.03	89.45	55.468		
8,647.91	7,144.53	4,553.00	4,553.00	96.16	78.51	-174.90	232.42	134.12	5,006.35	4,916.99	89.35	56.028		
8,650.00	7,146.16	4,553.00	4,553.00	96.18	78.51	-175.69	232.42	134.12	5,008.30	4,918.95	89.35	56.053		
8,700.00	7,185.66	4,553.00	4,553.00	96.84	78.51	166.16	232.42	134.12	5,054.91	4,965.67	89.25	56.640		
8,750.00	7,225.78	4,553.00	4,553.00	97.47	78.51	149.72	232.42	134.12	5,100.84	5,011.71	89.13	57.230		
8,800.00	7,266.21	4,553.00	4,553.00	98.08	78.51	135.15	232.42	134.12	5,145.76	5,056.76	89.00	57.819		
8,850.00	7,306.63	4,553.00	4,553.00	98.64	78.51	122.32	232.42	134.12	5,189.36	5,100.51	88.85	58.404		
8,900.00	7,346.75	4,553.00	4,553.00	99.17	78.51	111.06	232.42	134.12	5,231.35	5,142.65	88.69	58.982		
8,950.00	7,386.25	4,553.00	4,553.00	99.64	78.51	101.26	232.42	134.12	5,271.44	5,182.92	88.52	59.551		
9,000.00	7,424.84	4,553.00	4,553.00	100.06	78.51	92.79	232.42	134.12	5,309.38	5,221.05	88.33	60.107		
9,050.00	7,462.22	4,553.00	4,553.00	100.42	78.51	85.51	232.42	134.12	5,344.93	5,256.80	88.13	60.647		
9,100.00	7,498.11	4,553.00	4,553.00	100.74	78.51	79.32	232.42	134.12	5,377.87	5,289.95	87.92	61.166		
9,150.00	7,532.24	4,553.00	4,553.00	100.99	78.51	74.08	232.42	134.12	5,408.00	5,320.29	87.71	61.661		
9,200.00	7,564.34	4,553.00	4,553.00	101.19	78.51	69.67	232.42	134.12	5,435.13	5,347.65	87.48	62.127		
9,250.00	7,594.17	4,553.00	4,553.00	101.34	78.51	65.98	232.42	134.12	5,459.11	5,371.85	87.27	62.558		
9,300.00	7,621.50	4,553.00	4,553.00	101.45	78.51	62.91	232.42	134.12	5,479.80	5,392.75	87.05	62.950		
9,350.00	7,646.13	4,553.00	4,553.00	101.50	78.51	60.39	232.42	134.12	5,497.07	5,410.23	86.85	63.297		
9,400.00	7,667.87	4,553.00	4,553.00	101.51	78.51	58.36	232.42	134.12	5,510.83	5,424.18	86.66	63.594		
9,450.00	7,686.55	4,553.00	4,553.00	101.48	78.51	56.76	232.42	134.12	5,521.01	5,434.52	86.49	63.836		
9,500.00	7,702.04	4,553.00	4,553.00	101.42	78.51	55.55	232.42	134.12	5,527.53	5,441.19	86.34	64.017		
9,550.00	7,714.20	4,553.00	4,553.00	101.33	78.51	54.70	232.42	134.12	5,530.37	5,444.14	86.23	64.134		
9,600.00	7,722.96	4,553.00	4,553.00	101.20	78.51	54.20	232.42	134.12	5,529.51	5,443.36	86.15	64.182		
9,650.00	7,728.24	4,553.00	4,553.00	101.06	78.51	54.02	232.42	134.12	5,524.96	5,438.84	86.12	64.158		
9,699.97	7,730.00	4,553.00	4,553.00	100.90	78.51	54.18	232.42	134.12	5,516.74	5,430.62	86.12	64.061		
9,800.00	7,730.00	4,553.00	4,553.00	100.56	78.51	54.18	232.42	134.12	5,497.52	5,411.30	86.22	63.764		
9,900.00	7,730.00	4,553.00	4,553.00	100.24	78.51	54.18	232.42	134.12	5,480.06	5,393.64	86.42	63.410		
10,000.00	7,730.00	4,553.00	4,553.00	99.93	78.51	54.18	232.42	134.12	5,464.38	5,377.64	86.74	63.000		
10,100.00	7,730.00	4,553.00	4,553.00	99.64	78.51	54.18	232.42	134.12	5,450.49	5,363.34	87.15	62.539		
10,200.00	7,730.00	4,553.00	4,553.00	99.36	78.51	54.18	232.42	134.12	5,438.40	5,350.74	87.67	62.035		
10,300.00	7,730.00	4,553.00	4,553.00	99.09	78.51	54.18	232.42	134.12	5,428.13	5,339.86	88.27	61.492		
10,400.00	7,730.00	4,553.00	4,553.00	98.84	78.51	54.18	232.42	134.12	5,419.68	5,330.72	88.96	60.920		
10,500.00	7,730.00	4,553.00	4,553.00	98.61	78.51	54.18	232.42	134.12	5,413.07	5,323.34	89.73	60.324		
10,600.00	7,730.00	4,553.00	4,553.00	98.39	78.51	54.18	232.42	134.12	5,408.30	5,317.73	90.57	59.711		
10,700.00	7,730.00	4,553.00	4,553.00	98.18	78.51	54.18	232.42	134.12	5,405.38	5,313.90	91.48	59.088		
10,800.00	7,730.00	4,553.00	4,553.00	97.99	78.51	54.18	232.42	134.12	5,404.30	5,311.86	92.44	58.462		
10,808.11	7,730.00	4,553.00	4,553.00	97.97	78.51	54.18	232.42	134.12	5,404.30	5,311.77	92.53	58.409		
10,900.00	7,730.00	4,553.00	4,553.00	97.81	78.51	54.18	232.42	134.12	5,405.08	5,311.62	93.46	57.836		
11,000.00	7,730.00	4,553.00	4,553.00	97.64	78.51	54.18	232.42	134.12	5,407.70	5,313.19	94.51	57.216		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,100.00	7,730.00	4,553.00	4,553.00	97.50	78.51	54.18	232.42	134.12	5,412.17	5,316.56	95.61	56.605		
11,200.00	7,730.00	4,553.00	4,553.00	97.36	78.51	54.18	232.42	134.12	5,418.49	5,321.74	96.74	56.008		
11,300.00	7,730.00	4,553.00	4,553.00	97.24	78.51	54.18	232.42	134.12	5,426.64	5,328.73	97.91	55.427		
11,400.00	7,730.00	4,553.00	4,553.00	97.14	78.51	54.18	232.42	134.12	5,436.61	5,337.52	99.09	54.864		
11,500.00	7,730.00	4,553.00	4,553.00	97.06	78.51	54.18	232.42	134.12	5,448.41	5,348.11	100.30	54.322		
11,600.00	7,730.00	4,553.00	4,553.00	96.98	78.51	54.18	232.42	134.12	5,462.01	5,360.49	101.52	53.802		
11,700.00	7,730.00	4,553.00	4,553.00	96.93	78.51	54.18	232.42	134.12	5,477.40	5,374.64	102.75	53.306		
11,800.00	7,730.00	4,553.00	4,553.00	96.90	78.51	54.18	232.42	134.12	5,494.57	5,390.57	104.00	52.833		
11,900.00	7,730.00	4,553.00	4,553.00	96.88	78.51	54.18	232.42	134.12	5,513.50	5,408.25	105.25	52.386		
12,000.00	7,730.00	4,553.00	4,553.00	96.88	78.51	54.18	232.42	134.12	5,534.17	5,427.67	106.50	51.964		
12,100.00	7,730.00	4,553.00	4,553.00	96.90	78.51	54.18	232.42	134.12	5,556.57	5,448.81	107.75	51.567		
12,200.00	7,730.00	4,553.00	4,553.00	96.94	78.51	54.18	232.42	134.12	5,580.66	5,471.66	109.00	51.196		
12,300.00	7,730.00	4,553.00	4,553.00	97.00	78.51	54.18	232.42	134.12	5,606.44	5,496.19	110.25	50.851		
12,400.00	7,730.00	4,553.00	4,553.00	97.08	78.51	54.18	232.42	134.12	5,633.88	5,522.38	111.49	50.532		
12,500.00	7,730.00	4,553.00	4,553.00	97.18	78.51	54.18	232.42	134.12	5,662.94	5,550.22	112.72	50.238		
12,600.00	7,730.00	4,553.00	4,553.00	97.31	78.51	54.18	232.42	134.12	5,693.62	5,579.68	113.94	49.969		
12,700.00	7,730.00	4,553.00	4,553.00	97.46	78.51	54.18	232.42	134.12	5,725.88	5,610.73	115.15	49.724		
12,800.00	7,730.00	4,553.00	4,553.00	97.64	78.51	54.18	232.42	134.12	5,759.69	5,643.34	116.35	49.504		
12,900.00	7,730.00	4,553.00	4,553.00	97.85	78.51	54.18	232.42	134.12	5,795.04	5,677.51	117.53	49.307		
13,000.00	7,730.00	4,553.00	4,553.00	98.09	78.51	54.18	232.42	134.12	5,831.88	5,713.18	118.70	49.133		
13,100.00	7,730.00	4,553.00	4,553.00	98.35	78.51	54.18	232.42	134.12	5,870.20	5,750.35	119.84	48.982		
13,200.00	7,730.00	4,553.00	4,553.00	98.65	78.51	54.18	232.42	134.12	5,909.96	5,788.98	120.97	48.853		
13,300.00	7,730.00	4,553.00	4,553.00	98.98	78.51	54.18	232.42	134.12	5,951.13	5,829.04	122.09	48.745		
13,400.00	7,730.00	4,553.00	4,553.00	99.34	78.51	54.18	232.42	134.12	5,993.69	5,870.51	123.18	48.658		
13,500.00	7,730.00	4,553.00	4,553.00	99.74	78.51	54.18	232.42	134.12	6,037.61	5,913.36	124.25	48.592		
13,600.00	7,730.00	4,553.00	4,553.00	100.17	78.51	54.18	232.42	134.12	6,082.85	5,957.55	125.30	48.545		
13,700.00	7,730.00	4,553.00	4,553.00	100.65	78.51	54.18	232.42	134.12	6,129.39	6,003.06	126.34	48.517		
13,800.00	7,730.00	4,553.00	4,553.00	101.16	78.51	54.18	232.42	134.12	6,177.20	6,049.86	127.35	48.507		
13,900.00	7,730.00	4,553.00	4,553.00	101.71	78.51	54.18	232.42	134.12	6,226.25	6,097.92	128.34	48.515		
14,000.00	7,730.00	4,553.00	4,553.00	102.30	78.51	54.18	232.42	134.12	6,276.51	6,147.21	129.30	48.541		
14,100.00	7,730.00	4,553.00	4,553.00	102.93	78.51	54.18	232.42	134.12	6,327.95	6,197.70	130.25	48.584		
14,200.00	7,730.00	4,553.00	4,553.00	103.60	78.51	54.18	232.42	134.12	6,380.55	6,249.37	131.17	48.642		
14,300.00	7,730.00	4,553.00	4,553.00	104.32	78.51	54.18	232.42	134.12	6,434.26	6,302.19	132.08	48.717		
14,400.00	7,730.00	4,553.00	4,553.00	105.07	78.51	54.18	232.42	134.12	6,489.08	6,356.12	132.96	48.806		
14,500.00	7,730.00	4,553.00	4,553.00	105.86	78.51	54.18	232.42	134.12	6,544.96	6,411.14	133.82	48.910		
14,600.00	7,730.00	4,553.00	4,553.00	106.70	78.51	54.18	232.42	134.12	6,601.89	6,467.23	134.65	49.029		
14,700.00	7,730.00	4,553.00	4,553.00	107.57	78.51	54.18	232.42	134.12	6,659.82	6,524.35	135.47	49.160		
14,800.00	7,730.00	4,553.00	4,553.00	108.48	78.51	54.18	232.42	134.12	6,718.75	6,582.49	136.27	49.306		
14,900.00	7,730.00	4,553.00	4,553.00	109.43	78.51	54.18	232.42	134.12	6,778.64	6,641.60	137.04	49.463		
15,000.00	7,730.00	4,553.00	4,553.00	110.42	78.51	54.18	232.42	134.12	6,839.47	6,701.67	137.80	49.634		
15,100.00	7,730.00	4,553.00	4,553.00	111.43	78.51	54.18	232.42	134.12	6,901.22	6,762.68	138.53	49.816		
15,200.00	7,730.00	4,553.00	4,553.00	112.49	78.51	54.18	232.42	134.12	6,963.85	6,824.60	139.25	50.009		
15,300.00	7,730.00	4,553.00	4,553.00	113.57	78.51	54.18	232.42	134.12	7,027.34	6,887.39	139.95	50.214		
15,400.00	7,730.00	4,553.00	4,553.00	114.68	78.51	54.18	232.42	134.12	7,091.68	6,951.05	140.63	50.429		
15,500.00	7,730.00	4,553.00	4,553.00	115.82	78.51	54.18	232.42	134.12	7,156.84	7,015.55	141.29	50.655		
15,600.00	7,730.00	4,553.00	4,553.00	116.99	78.51	54.18	232.42	134.12	7,222.79	7,080.86	141.93	50.891		
15,700.00	7,730.00	4,553.00	4,553.00	118.19	78.51	54.18	232.42	134.12	7,289.52	7,146.97	142.55	51.136		
15,800.00	7,730.00	4,553.00	4,553.00	119.41	78.51	54.18	232.42	134.12	7,357.00	7,213.84	143.16	51.391		
15,900.00	7,730.00	4,553.00	4,553.00	120.65	78.51	54.18	232.42	134.12	7,425.21	7,281.47	143.75	51.655		
16,000.00	7,730.00	4,553.00	4,553.00	121.91	78.51	54.18	232.42	134.12	7,494.14	7,349.82	144.32	51.927		
16,100.00	7,730.00	4,553.00	4,553.00	123.20	78.51	54.18	232.42	134.12	7,563.77	7,418.89	144.88	52.208		
16,200.00	7,730.00	4,553.00	4,553.00	124.50	78.51	54.18	232.42	134.12	7,634.06	7,488.64	145.42	52.497		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,300.00	7,730.00	4,553.00	4,553.00	125.82	78.51	54.18	232.42	134.12	7,705.02	7,559.07	145.95	52.793		
16,400.00	7,730.00	4,553.00	4,553.00	127.16	78.51	54.18	232.42	134.12	7,776.61	7,630.15	146.46	53.098		
16,500.00	7,730.00	4,553.00	4,553.00	128.52	78.51	54.18	232.42	134.12	7,848.83	7,701.87	146.96	53.409		
16,600.00	7,730.00	4,553.00	4,553.00	129.89	78.51	54.18	232.42	134.12	7,921.65	7,774.20	147.44	53.728		
16,700.00	7,730.00	4,553.00	4,553.00	131.27	78.51	54.18	232.42	134.12	7,995.05	7,847.14	147.91	54.053		
16,800.00	7,730.00	4,553.00	4,553.00	132.67	78.51	54.18	232.42	134.12	8,069.03	7,920.66	148.37	54.385		
16,900.00	7,730.00	4,553.00	4,553.00	134.09	78.51	54.18	232.42	134.12	8,143.56	7,994.75	148.81	54.724		
17,000.00	7,730.00	4,553.00	4,553.00	135.51	78.51	54.18	232.42	134.12	8,218.64	8,069.39	149.24	55.068		
17,100.00	7,730.00	4,553.00	4,553.00	136.95	78.51	54.18	232.42	134.12	8,294.24	8,144.57	149.66	55.419		
17,200.00	7,730.00	4,553.00	4,553.00	138.40	78.51	54.18	232.42	134.12	8,370.35	8,220.28	150.07	55.775		
17,300.00	7,730.00	4,553.00	4,553.00	139.85	78.51	54.18	232.42	134.12	8,446.96	8,296.49	150.47	56.137		
17,400.00	7,730.00	4,553.00	4,553.00	141.32	78.51	54.18	232.42	134.12	8,524.05	8,373.20	150.86	56.505		
17,500.00	7,730.00	4,553.00	4,553.00	142.80	78.51	54.18	232.42	134.12	8,601.62	8,450.39	151.23	56.877		
17,600.00	7,730.00	4,553.00	4,553.00	144.28	78.51	54.18	232.42	134.12	8,679.65	8,528.05	151.60	57.255		
17,700.00	7,730.00	4,553.00	4,553.00	145.78	78.51	54.18	232.42	134.12	8,758.12	8,606.17	151.95	57.637		
17,800.00	7,730.00	4,553.00	4,553.00	147.28	78.51	54.18	232.42	134.12	8,837.02	8,684.73	152.30	58.025		
17,900.00	7,730.00	4,553.00	4,553.00	148.79	78.51	54.18	232.42	134.12	8,916.36	8,763.72	152.63	58.417		
18,000.00	7,730.00	4,553.00	4,553.00	150.31	78.51	54.18	232.42	134.12	8,996.10	8,843.14	152.96	58.813		
18,100.00	7,730.00	4,553.00	4,553.00	151.83	78.51	54.18	232.42	134.12	9,076.24	8,922.96	153.28	59.213		
18,200.00	7,730.00	4,553.00	4,553.00	153.37	78.51	54.18	232.42	134.12	9,156.77	9,003.18	153.59	59.618		
18,300.00	7,730.00	4,553.00	4,553.00	154.90	78.51	54.18	232.42	134.12	9,237.69	9,083.80	153.89	60.027		
18,400.00	7,730.00	4,553.00	4,553.00	156.45	78.51	54.18	232.42	134.12	9,318.97	9,164.79	154.19	60.440		
18,500.00	7,730.00	4,553.00	4,553.00	158.00	78.51	54.18	232.42	134.12	9,400.62	9,246.15	154.47	60.856		
18,600.00	7,730.00	4,553.00	4,553.00	159.55	78.51	54.18	232.42	134.12	9,482.62	9,327.87	154.75	61.276		
18,700.00	7,730.00	4,553.00	4,553.00	161.11	78.51	54.18	232.42	134.12	9,564.96	9,409.93	155.02	61.700		
18,800.00	7,730.00	4,553.00	4,553.00	162.68	78.51	54.18	232.42	134.12	9,647.63	9,492.34	155.29	62.127		
18,900.00	7,730.00	4,553.00	4,553.00	164.25	78.51	54.18	232.42	134.12	9,730.63	9,575.08	155.55	62.557		
19,000.00	7,730.00	4,553.00	4,553.00	165.83	78.51	54.18	232.42	134.12	9,813.95	9,658.15	155.80	62.991		
19,100.00	7,730.00	4,553.00	4,553.00	167.41	78.51	54.18	232.42	134.12	9,897.57	9,741.53	156.04	63.428		
19,200.00	7,730.00	4,553.00	4,553.00	168.99	78.51	54.18	232.42	134.12	9,981.50	9,825.21	156.28	63.868		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-15.03	257.55	-69.16	266.99				
100.00	100.00	87.00	87.00	0.13	0.68	-15.03	257.55	-69.16	266.68	265.87	0.81	329.176	
200.00	200.00	187.00	187.00	0.49	2.30	-15.03	257.55	-69.16	266.68	263.89	2.79	95.651	
300.00	300.00	287.00	287.00	0.85	4.04	-15.03	257.55	-69.16	266.68	261.78	4.89	54.515	
400.00	400.00	387.00	387.00	1.21	5.79	-15.03	257.55	-69.16	266.68	259.68	7.00	38.121	
500.00	500.00	487.00	487.00	1.57	7.53	-15.03	257.55	-69.16	266.68	257.58	9.10	29.307	
600.00	599.98	586.98	586.98	1.92	9.28	-80.76	257.55	-69.16	266.39	255.19	11.20	23.788	
700.00	699.84	686.84	686.84	2.28	11.02	-81.89	257.55	-69.16	265.60	252.30	13.30	19.976	
800.00	799.45	786.45	786.45	2.64	12.76	-83.77	257.55	-69.16	264.51	249.11	15.40	17.179	
900.00	898.70	885.70	885.70	3.02	14.49	-86.41	257.55	-69.16	263.46	245.95	17.51	15.049	
1,000.00	997.47	984.47	984.47	3.41	16.21	-89.78	257.55	-69.16	262.93	243.30	19.63	13.397	
1,005.92	1,003.29	1,009.71	990.29	3.44	16.65	-90.00	257.55	-69.16	262.93	242.84	20.09	13.086 CC	
1,100.00	1,095.62	1,082.62	1,082.62	3.84	17.93	-93.84	257.55	-69.16	263.55	241.79	21.76	12.112 ES	
1,200.00	1,193.06	1,180.06	1,180.06	4.29	19.63	-98.51	257.55	-69.16	266.03	242.13	23.91	11.128	
1,300.00	1,289.64	1,276.64	1,276.64	4.78	21.31	-103.65	257.55	-69.16	271.19	245.12	26.07	10.404	
1,400.00	1,385.27	1,372.27	1,372.27	5.32	22.98	-109.09	257.55	-69.16	279.79	251.56	28.23	9.912	
1,500.00	1,479.82	1,466.82	1,466.82	5.90	24.63	-114.62	257.55	-69.16	292.52	262.14	30.38	9.628	
1,600.00	1,573.17	1,560.17	1,560.17	6.53	26.26	-120.05	257.55	-69.16	309.91	277.39	32.52	9.531 SF	
1,700.00	1,665.21	1,652.21	1,652.21	7.23	27.87	-125.21	257.55	-69.16	332.25	297.63	34.62	9.598	
1,800.00	1,755.84	1,742.84	1,742.84	7.98	29.45	-129.99	257.55	-69.16	359.64	322.97	36.68	9.806	
1,900.00	1,844.94	1,831.94	1,831.94	8.80	31.00	-134.32	257.55	-69.16	392.02	353.33	38.69	10.132	
2,000.00	1,932.39	1,919.39	1,919.39	9.68	32.53	-138.17	257.55	-69.16	429.21	388.55	40.66	10.556	
2,100.00	2,018.11	2,005.11	2,005.11	10.63	34.03	-141.57	257.55	-69.16	470.98	428.39	42.58	11.060	
2,200.00	2,101.97	2,088.97	2,088.97	11.65	35.49	-144.54	257.55	-69.16	517.06	472.59	44.47	11.628	
2,300.00	2,183.88	2,170.88	2,170.88	12.74	36.92	-147.11	257.55	-69.16	567.19	520.89	46.30	12.250	
2,400.00	2,263.74	2,250.74	2,250.74	13.90	38.31	-149.34	257.55	-69.16	621.14	573.05	48.10	12.915	
2,431.61	2,288.54	2,275.54	2,275.54	14.29	38.75	-149.97	257.55	-69.16	638.95	590.29	48.66	13.132	
2,500.00	2,341.97	2,328.97	2,328.97	15.13	39.68	-151.70	257.55	-69.16	678.09	628.24	49.85	13.602	
2,600.00	2,420.08	2,407.08	2,407.08	16.37	41.04	-153.91	257.55	-69.16	736.04	684.44	51.60	14.264	
2,700.00	2,498.20	2,485.20	2,485.20	17.63	42.41	-155.83	257.55	-69.16	794.67	741.32	53.35	14.896	
2,800.00	2,576.32	2,563.32	2,563.32	18.89	43.77	-157.49	257.55	-69.16	853.83	798.74	55.09	15.498	
2,900.00	2,654.43	2,641.43	2,641.43	20.17	45.13	-158.96	257.55	-69.16	913.43	856.59	56.84	16.070	
3,000.00	2,732.55	2,719.55	2,719.55	21.45	46.50	-160.25	257.55	-69.16	973.39	914.80	58.59	16.614	
3,100.00	2,810.67	2,802.33	2,797.67	22.74	47.94	-161.39	257.55	-69.16	1,033.64	973.21	60.42	17.107	
3,200.00	2,888.78	2,875.78	2,875.78	24.03	49.22	-162.42	257.55	-69.16	1,094.13	1,032.03	62.10	17.620	
3,300.00	2,966.90	2,953.90	2,953.90	25.33	50.59	-163.34	257.55	-69.16	1,154.83	1,090.98	63.85	18.085	
3,400.00	3,045.02	3,032.02	3,032.02	26.63	51.95	-164.17	257.55	-69.16	1,215.70	1,150.09	65.61	18.528	
3,500.00	3,123.13	3,110.13	3,110.13	27.94	53.31	-164.92	257.55	-69.16	1,276.73	1,209.35	67.38	18.949	
3,600.00	3,201.25	3,188.25	3,188.25	29.24	54.68	-165.61	257.55	-69.16	1,337.89	1,268.74	69.14	19.350	
3,700.00	3,279.37	3,266.37	3,266.37	30.55	56.04	-166.24	257.55	-69.16	1,399.15	1,328.24	70.91	19.732	
3,800.00	3,357.49	3,344.49	3,344.49	31.86	57.40	-166.81	257.55	-69.16	1,460.52	1,387.84	72.68	20.095	
3,900.00	3,435.60	3,422.60	3,422.60	33.18	58.77	-167.35	257.55	-69.16	1,521.97	1,447.52	74.45	20.442	
4,000.00	3,513.72	3,500.72	3,500.72	34.49	60.13	-167.84	257.55	-69.16	1,583.50	1,507.28	76.23	20.774	
4,100.00	3,591.84	3,578.84	3,578.84	35.81	61.49	-168.29	257.55	-69.16	1,645.10	1,567.10	78.00	21.090	
4,200.00	3,669.95	3,656.95	3,656.95	37.12	62.86	-168.71	257.55	-69.16	1,706.76	1,626.98	79.78	21.393	
4,300.00	3,748.07	3,735.07	3,735.07	38.44	64.22	-169.11	257.55	-69.16	1,768.47	1,686.91	81.56	21.683	
4,400.00	3,826.19	3,813.19	3,813.19	39.76	65.58	-169.47	257.55	-69.16	1,830.23	1,746.89	83.34	21.960	
4,500.00	3,904.30	3,908.70	3,891.30	41.08	67.25	-169.82	257.55	-69.16	1,892.04	1,806.61	85.43	22.147	
4,600.00	3,982.42	3,969.42	3,969.42	42.40	68.31	-170.14	257.55	-69.16	1,953.89	1,866.97	86.91	22.481	
4,700.00	4,060.54	4,047.54	4,047.54	43.72	69.67	-170.44	257.55	-69.16	2,015.77	1,927.07	88.70	22.726	
4,800.00	4,138.66	4,125.66	4,125.66	45.05	71.04	-170.72	257.55	-69.16	2,077.68	1,987.19	90.49	22.961	
4,900.00	4,216.77	4,203.77	4,203.77	46.37	72.40	-170.99	257.55	-69.16	2,139.63	2,047.35	92.28	23.187	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,281.89	4,281.89	47.69	73.76	-171.25	257.55	-69.16	2,201.60	2,107.53	94.07	23.404		
5,100.00	4,373.01	4,360.01	4,360.01	49.02	75.13	-171.49	257.55	-69.16	2,263.60	2,167.73	95.86	23.613		
5,200.00	4,451.12	4,438.12	4,438.12	50.34	76.49	-171.71	257.55	-69.16	2,325.62	2,227.96	97.65	23.815		
5,300.00	4,529.24	4,516.24	4,516.24	51.67	77.85	-171.93	257.55	-69.16	2,387.66	2,288.21	99.45	24.009		
5,400.00	4,607.36	4,605.64	4,594.36	52.99	79.41	-172.13	257.55	-69.16	2,449.72	2,348.28	101.44	24.149		
5,500.00	4,685.47	4,672.47	4,672.47	54.32	80.58	-172.33	257.55	-69.16	2,511.80	2,408.76	103.04	24.377		
5,600.00	4,763.59	4,750.59	4,750.59	55.64	81.94	-172.51	257.55	-69.16	2,573.90	2,469.06	104.84	24.551		
5,700.00	4,841.71	4,828.71	4,828.71	56.97	83.31	-172.69	257.55	-69.16	2,636.01	2,529.37	106.64	24.719		
5,800.00	4,919.83	4,906.83	4,906.83	58.30	84.67	-172.86	257.55	-69.16	2,698.14	2,589.70	108.44	24.882		
5,900.00	4,997.94	4,984.94	4,984.94	59.62	86.04	-173.02	257.55	-69.16	2,760.28	2,650.04	110.24	25.039		
6,000.00	5,076.06	5,063.06	5,063.06	60.95	87.40	-173.17	257.55	-69.16	2,822.43	2,710.39	112.04	25.191		
6,100.00	5,154.18	5,141.18	5,141.18	62.28	88.76	-173.32	257.55	-69.16	2,884.60	2,770.76	113.84	25.338		
6,200.00	5,232.29	5,219.29	5,219.29	63.61	90.13	-173.46	257.55	-69.16	2,946.78	2,831.13	115.65	25.481		
6,300.00	5,310.41	5,302.59	5,297.41	64.93	91.58	-173.59	257.55	-69.16	3,008.96	2,891.42	117.54	25.599		
6,400.00	5,388.53	5,375.53	5,375.53	66.26	92.85	-173.72	257.55	-69.16	3,071.16	2,951.91	119.26	25.753		
6,500.00	5,466.64	5,453.64	5,453.64	67.59	94.22	-173.85	257.55	-69.16	3,133.37	3,012.31	121.06	25.882		
6,600.00	5,544.76	5,531.76	5,531.76	68.92	95.58	-173.97	257.55	-69.16	3,195.59	3,072.72	122.87	26.008		
6,700.00	5,622.88	5,609.88	5,609.88	70.25	96.94	-174.08	257.55	-69.16	3,257.81	3,133.14	124.68	26.130		
6,800.00	5,701.00	5,688.00	5,688.00	71.58	98.31	-174.19	257.55	-69.16	3,320.04	3,193.56	126.48	26.249		
6,900.00	5,779.11	5,766.11	5,766.11	72.91	99.67	-174.30	257.55	-69.16	3,382.28	3,253.99	128.29	26.364		
7,000.00	5,857.23	5,844.23	5,844.23	74.23	101.03	-174.40	257.55	-69.16	3,444.53	3,314.43	130.10	26.476		
7,100.00	5,935.35	5,922.35	5,922.35	75.56	102.40	-174.50	257.55	-69.16	3,506.78	3,374.87	131.91	26.584		
7,200.00	6,013.46	6,000.46	6,000.46	76.89	103.76	-174.60	257.55	-69.16	3,569.04	3,435.32	133.72	26.690		
7,300.00	6,091.58	6,078.58	6,078.58	78.22	105.12	-174.69	257.55	-69.16	3,631.31	3,495.77	135.53	26.793		
7,400.00	6,169.70	6,156.70	6,156.70	79.55	106.49	-174.78	257.55	-69.16	3,693.58	3,556.23	137.34	26.893		
7,500.00	6,247.81	6,234.81	6,234.81	80.88	107.85	-174.87	257.55	-69.16	3,755.85	3,616.69	139.16	26.990		
7,600.00	6,325.93	6,312.93	6,312.93	82.21	109.21	-174.95	257.55	-69.16	3,818.13	3,677.16	140.97	27.085		
7,700.00	6,404.05	6,408.95	6,391.05	83.54	110.89	-175.03	257.55	-69.16	3,880.42	3,737.32	143.10	27.117		
7,800.00	6,482.17	6,469.17	6,469.17	84.87	111.94	-175.11	257.55	-69.16	3,942.71	3,798.11	144.60	27.267		
7,900.00	6,560.28	6,547.28	6,547.28	86.20	113.30	-175.19	257.55	-69.16	4,005.01	3,858.59	146.41	27.354		
8,000.00	6,638.40	6,625.40	6,625.40	87.53	114.67	-175.26	257.55	-69.16	4,067.30	3,919.08	148.23	27.439		
8,100.00	6,716.52	6,703.52	6,703.52	88.86	116.03	-175.33	257.55	-69.16	4,129.61	3,979.56	150.05	27.522		
8,200.00	6,794.63	6,781.63	6,781.63	90.20	117.39	-175.40	257.55	-69.16	4,191.91	4,040.05	151.86	27.603		
8,300.00	6,872.75	6,859.75	6,859.75	91.53	118.76	-175.47	257.55	-69.16	4,254.23	4,100.55	153.68	27.683		
8,400.00	6,950.87	6,937.87	6,937.87	92.86	120.12	-175.53	257.55	-69.16	4,316.54	4,161.04	155.50	27.760		
8,500.00	7,028.98	7,015.98	7,015.98	94.19	121.48	-175.60	257.55	-69.16	4,378.86	4,221.54	157.32	27.835		
8,600.00	7,107.10	7,105.90	7,094.10	95.52	123.05	-175.66	257.55	-69.16	4,441.18	4,281.84	159.34	27.872		
8,647.91	7,144.53	7,131.53	7,131.53	96.16	123.50	-175.69	257.55	-69.16	4,471.04	4,311.03	160.01	27.943		
8,650.00	7,146.16	7,133.16	7,133.16	96.18	123.53	-176.10	257.55	-69.16	4,472.34	4,312.29	160.04	27.944		
8,700.00	7,185.66	7,172.66	7,172.66	96.84	124.22	-174.04	257.55	-69.16	4,502.96	4,342.00	160.96	27.976		
8,750.00	7,225.78	7,212.78	7,212.78	97.47	124.92	-164.10	257.55	-69.16	4,532.43	4,370.54	161.88	27.998		
8,800.00	7,266.21	7,253.21	7,253.21	98.08	125.62	-154.28	257.55	-69.16	4,560.52	4,397.72	162.81	28.012		
8,850.00	7,306.63	7,306.37	7,293.63	98.64	126.55	-144.81	257.55	-69.16	4,587.06	4,423.12	163.94	27.980		
8,900.00	7,346.75	7,333.75	7,333.75	99.17	127.03	-135.93	257.55	-69.16	4,611.88	4,447.26	164.62	28.015		
8,950.00	7,386.25	7,373.25	7,373.25	99.64	127.72	-127.81	257.55	-69.16	4,634.81	4,469.31	165.50	28.005		
9,000.00	7,424.84	7,411.84	7,411.84	100.06	128.39	-120.55	257.55	-69.16	4,655.75	4,489.40	166.35	27.988		
9,050.00	7,462.22	7,449.22	7,449.22	100.42	129.04	-114.19	257.55	-69.16	4,674.57	4,507.41	167.16	27.965		
9,100.00	7,498.11	7,485.11	7,485.11	100.74	129.67	-108.72	257.55	-69.16	4,691.21	4,523.27	167.94	27.935		
9,150.00	7,532.24	7,519.24	7,519.24	100.99	130.27	-104.07	257.55	-69.16	4,705.59	4,536.92	168.67	27.898		
9,200.00	7,564.34	7,551.34	7,551.34	101.19	130.83	-100.18	257.55	-69.16	4,717.66	4,548.31	169.36	27.857		
9,250.00	7,594.17	7,581.17	7,581.17	101.34	131.35	-96.97	257.55	-69.16	4,727.40	4,557.41	169.99	27.809		
9,300.00	7,621.50	7,608.50	7,608.50	101.45	131.82	-94.38	257.55	-69.16	4,734.79	4,564.21	170.58	27.757		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,633.13	7,633.13	101.50	132.25	92.33	257.55	-69.16	4,739.83	4,568.71	171.12	27.700		
9,400.00	7,667.87	7,654.87	7,654.87	101.51	132.63	90.78	257.55	-69.16	4,742.53	4,570.93	171.60	27.638		
9,450.00	7,686.55	7,673.55	7,673.55	101.48	132.96	89.68	257.55	-69.16	4,742.92	4,570.89	172.03	27.571		
9,500.00	7,702.04	7,689.04	7,689.04	101.42	133.23	89.00	257.55	-69.16	4,741.03	4,568.63	172.40	27.500		
9,550.00	7,714.20	7,701.20	7,701.20	101.33	133.44	88.71	257.55	-69.16	4,736.90	4,564.18	172.72	27.425		
9,600.00	7,722.96	7,709.96	7,709.96	101.20	133.60	88.79	257.55	-69.16	4,730.60	4,557.60	173.00	27.345		
9,650.00	7,728.24	7,715.24	7,715.24	101.06	133.69	89.22	257.55	-69.16	4,722.16	4,548.94	173.22	27.261		
9,699.97	7,730.00	7,717.00	7,717.00	100.90	133.72	90.00	257.55	-69.16	4,711.67	4,538.28	173.39	27.174		
9,800.00	7,730.00	7,717.00	7,717.00	100.56	133.72	90.00	257.55	-69.16	4,689.68	4,515.97	173.71	26.997		
9,900.00	7,730.00	7,717.00	7,717.00	100.24	133.72	90.00	257.55	-69.16	4,669.73	4,495.64	174.08	26.825		
10,000.00	7,730.00	7,717.00	7,717.00	99.93	133.72	90.00	257.55	-69.16	4,651.84	4,477.33	174.51	26.657		
10,100.00	7,730.00	7,717.00	7,717.00	99.64	133.72	90.00	257.55	-69.16	4,636.04	4,461.06	174.98	26.495		
10,200.00	7,730.00	7,717.00	7,717.00	99.36	133.72	90.00	257.55	-69.16	4,622.35	4,446.86	175.50	26.339		
10,300.00	7,730.00	7,717.00	7,717.00	99.09	133.72	90.00	257.55	-69.16	4,610.79	4,434.73	176.06	26.189		
10,400.00	7,730.00	7,717.00	7,717.00	98.84	133.72	90.00	257.55	-69.16	4,601.38	4,424.71	176.66	26.046		
10,500.00	7,730.00	7,717.00	7,717.00	98.61	133.72	90.00	257.55	-69.16	4,594.12	4,416.81	177.31	25.910		
10,600.00	7,730.00	7,717.00	7,717.00	98.39	133.72	90.00	257.55	-69.16	4,589.03	4,411.04	177.99	25.783		
10,700.00	7,730.00	7,717.00	7,717.00	98.18	133.72	90.00	257.55	-69.16	4,586.12	4,407.42	178.70	25.663		
10,783.66	7,730.00	7,717.00	7,717.00	98.02	133.72	90.00	257.55	-69.16	4,585.36	4,406.03	179.33	25.570		
10,800.00	7,730.00	7,717.00	7,717.00	97.99	133.72	90.00	257.55	-69.16	4,585.39	4,405.94	179.45	25.553		
10,900.00	7,730.00	7,717.00	7,717.00	97.81	133.72	90.00	257.55	-69.16	4,586.83	4,406.62	180.22	25.452		
11,000.00	7,730.00	7,717.00	7,717.00	97.64	133.72	90.00	257.55	-69.16	4,590.46	4,409.45	181.01	25.361		
11,100.00	7,730.00	7,717.00	7,717.00	97.50	133.72	90.00	257.55	-69.16	4,596.26	4,414.44	181.82	25.279		
11,200.00	7,730.00	7,717.00	7,717.00	97.36	133.72	90.00	257.55	-69.16	4,604.22	4,421.57	182.65	25.209		
11,300.00	7,730.00	7,717.00	7,717.00	97.24	133.72	90.00	257.55	-69.16	4,614.34	4,430.85	183.48	25.148		
11,400.00	7,730.00	7,717.00	7,717.00	97.14	133.72	90.00	257.55	-69.16	4,626.59	4,442.26	184.33	25.099		
11,500.00	7,730.00	7,717.00	7,717.00	97.06	133.72	90.00	257.55	-69.16	4,640.97	4,455.79	185.19	25.061		
11,600.00	7,730.00	7,717.00	7,717.00	96.98	133.72	90.00	257.55	-69.16	4,657.46	4,471.41	186.04	25.034		
11,700.00	7,730.00	7,717.00	7,717.00	96.93	133.72	90.00	257.55	-69.16	4,676.02	4,489.12	186.90	25.019		
11,800.00	7,730.00	7,717.00	7,717.00	96.90	133.72	90.00	257.55	-69.16	4,696.64	4,508.88	187.76	25.014		
11,900.00	7,730.00	7,717.00	7,717.00	96.88	133.72	90.00	257.55	-69.16	4,719.29	4,530.68	188.61	25.022		
12,000.00	7,730.00	7,717.00	7,717.00	96.88	133.72	90.00	257.55	-69.16	4,743.94	4,554.49	189.45	25.040		
12,100.00	7,730.00	7,717.00	7,717.00	96.90	133.72	90.00	257.55	-69.16	4,770.56	4,580.27	190.29	25.070		
12,200.00	7,730.00	7,717.00	7,717.00	96.94	133.72	90.00	257.55	-69.16	4,799.12	4,608.00	191.11	25.112		
12,300.00	7,730.00	7,717.00	7,717.00	97.00	133.72	90.00	257.55	-69.16	4,829.57	4,637.65	191.92	25.164		
12,400.00	7,730.00	7,717.00	7,717.00	97.08	133.72	90.00	257.55	-69.16	4,861.90	4,669.18	192.72	25.228		
12,500.00	7,730.00	7,717.00	7,717.00	97.18	133.72	90.00	257.55	-69.16	4,896.05	4,702.55	193.50	25.302		
12,600.00	7,730.00	7,717.00	7,717.00	97.31	133.72	90.00	257.55	-69.16	4,932.00	4,737.73	194.27	25.387		
12,700.00	7,730.00	7,717.00	7,717.00	97.46	133.72	90.00	257.55	-69.16	4,969.69	4,774.67	195.02	25.483		
12,800.00	7,730.00	7,717.00	7,717.00	97.64	133.72	90.00	257.55	-69.16	5,009.10	4,813.35	195.75	25.589		
12,900.00	7,730.00	7,717.00	7,717.00	97.85	133.72	90.00	257.55	-69.16	5,050.19	4,853.72	196.47	25.705		
13,000.00	7,730.00	7,717.00	7,717.00	98.09	133.72	90.00	257.55	-69.16	5,092.90	4,895.74	197.16	25.831		
13,100.00	7,730.00	7,717.00	7,717.00	98.35	133.72	90.00	257.55	-69.16	5,137.21	4,939.38	197.83	25.967		
13,200.00	7,730.00	7,717.00	7,717.00	98.65	133.72	90.00	257.55	-69.16	5,183.07	4,984.58	198.49	26.113		
13,300.00	7,730.00	7,717.00	7,717.00	98.98	133.72	90.00	257.55	-69.16	5,230.44	5,031.31	199.12	26.267		
13,400.00	7,730.00	7,717.00	7,717.00	99.34	133.72	90.00	257.55	-69.16	5,279.27	5,079.53	199.74	26.431		
13,500.00	7,730.00	7,717.00	7,717.00	99.74	133.72	90.00	257.55	-69.16	5,329.54	5,129.20	200.34	26.603		
13,600.00	7,730.00	7,717.00	7,717.00	100.17	133.72	90.00	257.55	-69.16	5,381.20	5,180.28	200.91	26.784		
13,700.00	7,730.00	7,717.00	7,717.00	100.65	133.72	90.00	257.55	-69.16	5,434.20	5,232.73	201.47	26.973		
13,800.00	7,730.00	7,717.00	7,717.00	101.16	133.72	90.00	257.55	-69.16	5,488.52	5,286.51	202.01	27.170		
13,900.00	7,730.00	7,717.00	7,717.00	101.71	133.72	90.00	257.55	-69.16	5,544.10	5,341.58	202.52	27.375		
14,000.00	7,730.00	7,717.00	7,717.00	102.30	133.72	90.00	257.55	-69.16	5,600.92	5,397.90	203.02	27.587		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,717.00	7,717.00	102.93	133.72	90.00	257.55	-69.16	5,658.94	5,455.43	203.51	27.807		
14,200.00	7,730.00	7,717.00	7,717.00	103.60	133.72	90.00	257.55	-69.16	5,718.12	5,514.15	203.97	28.034		
14,300.00	7,730.00	7,717.00	7,717.00	104.32	133.72	90.00	257.55	-69.16	5,778.42	5,574.00	204.42	28.268		
14,400.00	7,730.00	7,717.00	7,717.00	105.07	133.72	90.00	257.55	-69.16	5,839.81	5,634.97	204.85	28.508		
14,500.00	7,730.00	7,717.00	7,717.00	105.86	133.72	90.00	257.55	-69.16	5,902.26	5,697.00	205.26	28.755		
14,600.00	7,730.00	7,717.00	7,717.00	106.70	133.72	90.00	257.55	-69.16	5,965.73	5,760.07	205.66	29.008		
14,700.00	7,730.00	7,717.00	7,717.00	107.57	133.72	90.00	257.55	-69.16	6,030.19	5,824.15	206.04	29.267		
14,800.00	7,730.00	7,717.00	7,717.00	108.48	133.72	90.00	257.55	-69.16	6,095.61	5,889.21	206.41	29.532		
14,900.00	7,730.00	7,717.00	7,717.00	109.43	133.72	90.00	257.55	-69.16	6,161.96	5,955.20	206.76	29.803		
15,000.00	7,730.00	7,717.00	7,717.00	110.42	133.72	90.00	257.55	-69.16	6,229.21	6,022.11	207.10	30.078		
15,100.00	7,730.00	7,717.00	7,717.00	111.43	133.72	90.00	257.55	-69.16	6,297.32	6,089.90	207.42	30.360		
15,200.00	7,730.00	7,717.00	7,717.00	112.49	133.72	90.00	257.55	-69.16	6,366.28	6,158.55	207.74	30.646		
15,300.00	7,730.00	7,717.00	7,717.00	113.57	133.72	90.00	257.55	-69.16	6,436.06	6,228.02	208.04	30.937		
15,400.00	7,730.00	7,717.00	7,717.00	114.68	133.72	90.00	257.55	-69.16	6,506.62	6,298.29	208.32	31.233		
15,500.00	7,730.00	7,717.00	7,717.00	115.82	133.72	90.00	257.55	-69.16	6,577.95	6,369.34	208.60	31.534		
15,600.00	7,730.00	7,717.00	7,717.00	116.99	133.72	90.00	257.55	-69.16	6,650.01	6,441.14	208.87	31.839		
15,700.00	7,730.00	7,717.00	7,717.00	118.19	133.72	90.00	257.55	-69.16	6,722.79	6,513.67	209.12	32.148		
15,800.00	7,730.00	7,717.00	7,717.00	119.41	133.72	90.00	257.55	-69.16	6,796.26	6,586.90	209.37	32.461		
15,900.00	7,730.00	7,717.00	7,717.00	120.65	133.72	90.00	257.55	-69.16	6,870.40	6,660.80	209.60	32.779		
16,000.00	7,730.00	7,717.00	7,717.00	121.91	133.72	90.00	257.55	-69.16	6,945.19	6,735.37	209.83	33.100		
16,100.00	7,730.00	7,717.00	7,717.00	123.20	133.72	90.00	257.55	-69.16	7,020.61	6,810.57	210.04	33.425		
16,200.00	7,730.00	7,717.00	7,717.00	124.50	133.72	90.00	257.55	-69.16	7,096.64	6,886.39	210.25	33.753		
16,300.00	7,730.00	7,717.00	7,717.00	125.82	133.72	90.00	257.55	-69.16	7,173.25	6,962.80	210.45	34.085		
16,400.00	7,730.00	7,717.00	7,717.00	127.16	133.72	90.00	257.55	-69.16	7,250.43	7,039.79	210.64	34.421		
16,500.00	7,730.00	7,717.00	7,717.00	128.52	133.72	90.00	257.55	-69.16	7,328.17	7,117.34	210.83	34.759		
16,600.00	7,730.00	7,717.00	7,717.00	129.89	133.72	90.00	257.55	-69.16	7,406.44	7,195.43	211.00	35.101		
16,700.00	7,730.00	7,717.00	7,717.00	131.27	133.72	90.00	257.55	-69.16	7,485.22	7,274.05	211.17	35.446		
16,800.00	7,730.00	7,717.00	7,717.00	132.67	133.72	90.00	257.55	-69.16	7,564.51	7,353.18	211.34	35.794		
16,900.00	7,730.00	7,717.00	7,717.00	134.09	133.72	90.00	257.55	-69.16	7,644.29	7,432.79	211.49	36.144		
17,000.00	7,730.00	7,717.00	7,717.00	135.51	133.72	90.00	257.55	-69.16	7,724.53	7,512.89	211.65	36.497		
17,100.00	7,730.00	7,717.00	7,717.00	136.95	133.72	90.00	257.55	-69.16	7,805.23	7,593.44	211.79	36.853		
17,200.00	7,730.00	7,717.00	7,717.00	138.40	133.72	90.00	257.55	-69.16	7,886.38	7,674.44	211.93	37.212		
17,300.00	7,730.00	7,717.00	7,717.00	139.85	133.72	90.00	257.55	-69.16	7,967.95	7,755.88	212.07	37.573		
17,400.00	7,730.00	7,717.00	7,717.00	141.32	133.72	90.00	257.55	-69.16	8,049.94	7,837.74	212.20	37.936		
17,500.00	7,730.00	7,717.00	7,717.00	142.80	133.72	90.00	257.55	-69.16	8,132.33	7,920.00	212.32	38.302		
17,600.00	7,730.00	7,717.00	7,717.00	144.28	133.72	90.00	257.55	-69.16	8,215.11	8,002.66	212.44	38.670		
17,700.00	7,730.00	7,717.00	7,717.00	145.78	133.72	90.00	257.55	-69.16	8,298.27	8,085.71	212.56	39.040		
17,800.00	7,730.00	7,717.00	7,717.00	147.28	133.72	90.00	257.55	-69.16	8,381.80	8,169.13	212.67	39.412		
17,900.00	7,730.00	7,717.00	7,717.00	148.79	133.72	90.00	257.55	-69.16	8,465.68	8,252.90	212.78	39.786		
18,000.00	7,730.00	7,717.00	7,717.00	150.31	133.72	90.00	257.55	-69.16	8,549.92	8,337.03	212.89	40.162		
18,100.00	7,730.00	7,717.00	7,717.00	151.83	133.72	90.00	257.55	-69.16	8,634.49	8,421.50	212.99	40.540		
18,200.00	7,730.00	7,717.00	7,717.00	153.37	133.72	90.00	257.55	-69.16	8,719.38	8,506.30	213.08	40.920		
18,300.00	7,730.00	7,717.00	7,717.00	154.90	133.72	90.00	257.55	-69.16	8,804.59	8,591.42	213.18	41.302		
18,400.00	7,730.00	7,717.00	7,717.00	156.45	133.72	90.00	257.55	-69.16	8,890.11	8,676.85	213.27	41.685		
18,500.00	7,730.00	7,717.00	7,717.00	158.00	133.72	90.00	257.55	-69.16	8,975.94	8,762.58	213.36	42.070		
18,600.00	7,730.00	7,717.00	7,717.00	159.55	133.72	90.00	257.55	-69.16	9,062.05	8,848.60	213.44	42.456		
18,700.00	7,730.00	7,717.00	7,717.00	161.11	133.72	90.00	257.55	-69.16	9,148.44	8,934.91	213.53	42.844		
18,800.00	7,730.00	7,717.00	7,717.00	162.68	133.72	90.00	257.55	-69.16	9,235.11	9,021.50	213.61	43.234		
18,900.00	7,730.00	7,717.00	7,717.00	164.25	133.72	90.00	257.55	-69.16	9,322.04	9,108.36	213.69	43.625		
19,000.00	7,730.00	7,717.00	7,717.00	165.83	133.72	90.00	257.55	-69.16	9,409.24	9,195.48	213.76	44.018		
19,100.00	7,730.00	7,717.00	7,717.00	167.41	133.72	90.00	257.55	-69.16	9,496.68	9,282.85	213.83	44.411		
19,200.00	7,730.00	7,717.00	7,717.00	168.99	133.72	90.00	257.55	-69.16	9,584.38	9,370.47	213.91	44.806		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - ABND VERT COSSLETT B UNIT 1X - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,717.00	7,717.00	170.58	133.72	90.00	257.55	-69.16	9,672.31	9,458.33	213.98	45.203	
19,400.00	7,730.00	7,717.00	7,717.00	172.17	133.72	90.00	257.55	-69.16	9,760.47	9,546.43	214.04	45.600	
19,430.54	7,730.00	7,717.00	7,717.00	172.66	133.72	90.00	257.55	-69.16	9,787.44	9,573.38	214.06	45.722	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.48	0.73	-79.80	79.80					
100.00	100.00	102.00	102.00	0.13	0.14	-89.48	0.73	-79.80	79.80	79.53	0.28	289.121		
200.00	200.00	202.00	202.00	0.49	0.50	-89.48	0.73	-79.80	79.80	78.81	0.99	80.369		
300.00	300.00	302.00	302.00	0.85	0.86	-89.48	0.73	-79.80	79.80	78.09	1.71	46.672		
400.00	400.00	402.00	402.00	1.21	1.22	-89.48	0.73	-79.80	79.80	77.38	2.43	32.884		
500.00	500.00	502.00	502.00	1.57	1.58	-89.48	0.73	-79.80	79.80	76.66	3.14	25.385 CC, ES		
600.00	599.98	601.98	601.98	1.92	1.93	-155.34	0.73	-79.80	81.39	77.53	3.86	21.106		
700.00	699.84	701.84	701.84	2.28	2.29	-156.75	0.73	-79.80	86.17	81.60	4.57	18.864		
800.00	799.45	801.45	801.45	2.64	2.65	-158.78	0.73	-79.80	94.24	88.96	5.28	17.840		
900.00	898.70	900.70	900.70	3.02	3.00	-161.10	0.73	-79.80	105.70	99.70	6.00	17.619		
1,000.00	997.47	1,000.53	999.47	3.41	3.36	-163.42	0.73	-79.80	120.62	113.90	6.72	17.947		
1,100.00	1,095.62	1,102.38	1,097.62	3.84	3.73	-165.57	0.73	-79.80	139.04	131.58	7.45	18.655		
1,200.00	1,193.06	1,204.94	1,195.06	4.29	4.10	-167.46	0.73	-79.80	160.94	152.75	8.19	19.651		
1,300.00	1,289.64	1,291.64	1,291.64	4.78	4.41	-169.09	0.73	-79.80	186.32	177.45	8.87	20.999		
1,400.00	1,385.27	1,393.21	1,393.19	5.32	4.77	-170.33	1.84	-78.77	213.92	204.31	9.61	22.257		
1,500.00	1,479.82	1,496.15	1,496.00	5.90	5.13	-170.95	5.64	-75.23	241.98	231.62	10.36	23.366		
1,600.00	1,573.17	1,599.99	1,599.45	6.53	5.51	-171.14	12.22	-69.11	270.39	259.28	11.11	24.342		
1,700.00	1,665.21	1,704.72	1,703.38	7.23	5.89	-171.00	21.62	-60.36	299.11	287.24	11.87	25.201		
1,800.00	1,755.84	1,810.33	1,807.63	7.98	6.28	-170.61	33.91	-48.92	328.12	315.48	12.64	25.950		
1,900.00	1,844.94	1,916.80	1,912.04	8.80	6.70	-170.03	49.15	-34.74	357.40	343.97	13.44	26.601		
2,000.00	1,932.39	2,024.12	2,016.44	9.68	7.15	-169.29	67.37	-17.78	386.96	372.70	14.25	27.150		
2,100.00	2,018.11	2,132.29	2,120.63	10.63	7.63	-168.44	88.61	1.99	416.78	401.69	15.10	27.604		
2,200.00	2,101.97	2,241.29	2,224.44	11.65	8.15	-167.48	112.92	24.61	446.89	430.90	15.98	27.958		
2,300.00	2,183.88	2,351.10	2,327.68	12.74	8.72	-166.43	140.31	50.10	477.28	460.36	16.92	28.211		
2,400.00	2,263.74	2,461.72	2,430.14	13.90	9.35	-165.31	170.81	78.49	507.95	490.04	17.91	28.358		
2,431.61	2,288.54	2,496.85	2,462.33	14.29	9.56	-164.95	181.10	88.06	517.71	499.47	18.24	28.383		
2,500.00	2,341.97	2,573.38	2,531.86	15.13	10.04	-164.22	204.51	109.85	538.17	519.20	18.98	28.360		
2,600.00	2,420.08	2,668.83	2,618.03	16.37	10.67	-163.33	234.57	137.83	567.15	547.07	20.08	28.243		
2,700.00	2,498.20	2,764.18	2,704.10	17.63	11.32	-162.52	264.60	165.77	596.24	575.02	21.22	28.097		
2,800.00	2,576.32	2,859.53	2,790.18	18.89	11.99	-161.78	294.63	193.72	625.43	603.03	22.39	27.930		
2,900.00	2,654.43	2,954.88	2,876.25	20.17	12.67	-161.11	324.66	221.67	654.70	631.11	23.59	27.749		
3,000.00	2,732.55	3,050.23	2,962.33	21.45	13.37	-160.50	354.69	249.62	684.05	659.23	24.82	27.560		
3,100.00	2,810.67	3,145.58	3,048.40	22.74	14.07	-159.94	384.71	277.56	713.47	687.40	26.07	27.367		
3,200.00	2,888.78	3,240.93	3,134.48	24.03	14.79	-159.42	414.74	305.51	742.94	715.60	27.34	27.173		
3,300.00	2,966.90	3,336.28	3,220.55	25.33	15.51	-158.94	444.77	333.46	772.47	743.84	28.63	26.980		
3,400.00	3,045.02	3,431.63	3,306.62	26.63	16.24	-158.50	474.80	361.40	802.04	772.10	29.94	26.791		
3,500.00	3,123.13	3,526.98	3,392.70	27.94	16.97	-158.09	504.83	389.35	831.65	800.40	31.26	26.607		
3,600.00	3,201.25	3,622.33	3,478.77	29.24	17.71	-157.70	534.86	417.30	861.30	828.71	32.59	26.427		
3,700.00	3,279.37	3,717.68	3,564.85	30.55	18.46	-157.34	564.89	445.24	890.98	857.05	33.94	26.254		
3,800.00	3,357.49	3,813.03	3,650.92	31.86	19.21	-157.01	594.92	473.19	920.70	885.40	35.29	26.086		
3,900.00	3,435.60	3,908.38	3,736.99	33.18	19.96	-156.69	624.95	501.14	950.43	913.77	36.66	25.925		
4,000.00	3,513.72	4,003.73	3,823.07	34.49	20.71	-156.40	654.97	529.09	980.20	942.16	38.04	25.769		
4,100.00	3,591.84	4,100.92	3,909.14	35.81	21.49	-156.12	685.00	557.03	1,009.98	970.55	39.43	25.613		
4,200.00	3,669.95	4,205.57	3,995.22	37.12	22.32	-155.86	715.03	584.98	1,039.79	998.91	40.88	25.433		
4,300.00	3,748.07	4,289.78	4,081.29	38.44	23.00	-155.61	745.06	612.93	1,069.62	1,027.40	42.21	25.340		
4,400.00	3,826.19	4,385.13	4,167.37	39.76	23.76	-155.38	775.09	640.87	1,099.46	1,055.84	43.62	25.208		
4,500.00	3,904.30	4,480.48	4,253.44	41.08	24.53	-155.16	805.12	668.82	1,129.32	1,084.29	45.03	25.081		
4,600.00	3,982.42	4,575.83	4,339.51	42.40	25.30	-154.95	835.15	696.77	1,159.19	1,112.75	46.44	24.960		
4,700.00	4,060.54	4,671.18	4,425.59	43.72	26.07	-154.75	865.18	724.71	1,189.07	1,141.21	47.86	24.844		
4,800.00	4,138.66	4,766.52	4,511.66	45.05	26.84	-154.56	895.21	752.66	1,218.97	1,169.69	49.29	24.732		
4,900.00	4,216.77	4,861.87	4,597.74	46.37	27.61	-154.38	925.24	780.61	1,248.88	1,198.17	50.72	24.625		
5,000.00	4,294.89	4,957.22	4,683.81	47.69	28.39	-154.20	955.26	808.56	1,278.80	1,226.66	52.15	24.523		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,052.57	4,769.88	49.02	29.16	-154.04	985.29	836.50	1,308.74	1,255.15	53.58	24.424		
5,200.00	4,451.12	5,147.92	4,855.96	50.34	29.94	-153.88	1,015.32	864.45	1,338.68	1,283.65	55.02	24.329		
5,300.00	4,529.24	5,243.27	4,942.03	51.67	30.72	-153.73	1,045.35	892.40	1,368.63	1,312.16	56.47	24.238		
5,400.00	4,607.36	5,338.62	5,028.11	52.99	31.50	-153.59	1,075.38	920.34	1,398.58	1,340.67	57.91	24.150		
5,500.00	4,685.47	5,433.97	5,114.18	54.32	32.28	-153.45	1,105.41	948.29	1,428.55	1,369.19	59.36	24.066		
5,600.00	4,763.59	5,529.32	5,200.26	55.64	33.06	-153.32	1,135.44	976.24	1,458.52	1,397.71	60.81	23.984		
5,700.00	4,841.71	5,624.67	5,286.33	56.97	33.84	-153.19	1,165.47	1,004.18	1,488.50	1,426.24	62.26	23.906		
5,800.00	4,919.83	5,720.02	5,372.40	58.30	34.62	-153.07	1,195.50	1,032.13	1,518.49	1,454.77	63.72	23.831		
5,900.00	4,997.94	5,815.37	5,458.48	59.62	35.40	-152.95	1,225.53	1,060.08	1,548.48	1,483.30	65.18	23.758		
6,000.00	5,076.06	5,910.72	5,544.55	60.95	36.18	-152.84	1,255.55	1,088.03	1,578.48	1,511.84	66.64	23.688		
6,100.00	5,154.18	6,006.07	5,630.63	62.28	36.96	-152.73	1,285.58	1,115.97	1,608.48	1,540.38	68.10	23.620		
6,200.00	5,232.29	6,101.42	5,716.70	63.61	37.75	-152.63	1,315.61	1,143.92	1,638.49	1,568.93	69.56	23.555		
6,300.00	5,310.41	6,203.23	5,802.77	64.93	38.58	-152.52	1,345.64	1,171.87	1,668.50	1,597.43	71.07	23.477		
6,400.00	5,388.53	6,307.88	5,888.85	66.26	39.45	-152.43	1,375.67	1,199.81	1,698.52	1,625.92	72.60	23.396		
6,500.00	5,466.64	6,387.47	5,974.92	67.59	40.10	-152.33	1,405.70	1,227.76	1,728.54	1,654.58	73.96	23.372		
6,600.00	5,544.76	6,482.82	6,061.00	68.92	40.89	-152.24	1,435.73	1,255.71	1,758.56	1,683.14	75.43	23.314		
6,700.00	5,622.88	6,578.17	6,147.07	70.25	41.67	-152.16	1,465.76	1,283.65	1,788.59	1,711.70	76.90	23.259		
6,800.00	5,701.00	6,673.52	6,233.15	71.58	42.46	-152.07	1,495.79	1,311.60	1,818.63	1,740.26	78.37	23.206		
6,900.00	5,779.11	6,768.87	6,319.22	72.91	43.24	-151.99	1,525.81	1,339.55	1,848.66	1,768.82	79.84	23.154		
7,000.00	5,857.23	6,864.22	6,405.29	74.23	44.03	-151.91	1,555.84	1,367.50	1,878.70	1,797.39	81.32	23.104		
7,100.00	5,935.35	6,959.56	6,491.37	75.56	44.82	-151.83	1,585.87	1,395.44	1,908.75	1,825.95	82.79	23.055		
7,200.00	6,013.46	7,054.91	6,577.44	76.89	45.60	-151.76	1,615.90	1,423.39	1,938.79	1,854.53	84.27	23.008		
7,300.00	6,091.58	7,150.26	6,663.52	78.22	46.39	-151.69	1,645.93	1,451.34	1,968.84	1,883.10	85.74	22.962		
7,400.00	6,169.70	7,245.61	6,749.59	79.55	47.18	-151.62	1,675.96	1,479.28	1,998.89	1,911.67	87.22	22.917		
7,500.00	6,247.81	7,340.96	6,835.67	80.88	47.97	-151.55	1,705.99	1,507.23	2,028.95	1,940.25	88.70	22.874		
7,600.00	6,325.93	7,436.31	6,921.74	82.21	48.75	-151.48	1,736.02	1,535.18	2,059.00	1,968.82	90.18	22.832		
7,700.00	6,404.05	7,531.66	7,007.81	83.54	49.54	-151.42	1,766.05	1,563.12	2,089.06	1,997.40	91.66	22.791		
7,800.00	6,482.17	7,627.01	7,093.89	84.87	50.33	-151.36	1,796.08	1,591.07	2,119.13	2,025.98	93.14	22.751		
7,900.00	6,560.28	7,732.18	7,189.22	86.20	51.18	-151.33	1,827.86	1,622.02	2,149.12	2,054.43	94.69	22.696		
8,000.00	6,638.40	7,855.74	7,305.34	87.53	51.99	-151.85	1,845.38	1,659.64	2,178.13	2,082.51	95.62	22.780		
8,100.00	6,716.52	7,967.52	7,411.33	88.86	52.44	-152.91	1,838.38	1,693.91	2,206.33	2,110.82	95.50	23.102		
8,200.00	6,794.63	8,062.21	7,498.69	90.20	52.63	-154.19	1,815.62	1,722.09	2,234.64	2,139.85	94.79	23.575		
8,300.00	6,872.75	8,139.44	7,566.55	91.53	52.67	-155.47	1,786.07	1,743.95	2,264.03	2,170.19	93.84	24.127		
8,400.00	6,950.87	8,201.54	7,617.99	92.86	52.63	-156.64	1,755.52	1,760.48	2,295.25	2,202.39	92.86	24.717		
8,500.00	7,028.98	8,251.45	7,656.87	94.19	52.55	-157.65	1,726.84	1,772.96	2,328.83	2,236.90	91.93	25.333		
8,600.00	7,107.10	8,291.87	7,686.52	95.52	52.46	-158.51	1,701.08	1,782.46	2,365.07	2,274.02	91.05	25.977		
8,647.91	7,144.53	8,308.53	7,698.22	96.16	52.41	-158.88	1,689.84	1,786.21	2,383.43	2,292.79	90.64	26.295		
8,650.00	7,146.16	8,309.22	7,698.71	96.18	52.41	-159.23	1,689.36	1,786.37	2,384.25	2,293.62	90.62	26.309		
8,700.00	7,185.66	8,326.26	7,710.33	96.84	52.36	-167.94	1,677.48	1,790.09	2,404.15	2,313.93	90.22	26.648		
8,750.00	7,225.78	8,350.00	7,725.97	97.47	52.29	-177.28	1,660.34	1,795.09	2,424.64	2,334.93	89.71	27.028		
8,800.00	7,266.21	8,362.48	7,733.92	98.08	52.25	173.35	1,651.05	1,797.63	2,445.46	2,355.98	89.48	27.329		
8,850.00	7,306.63	8,381.48	7,745.64	98.64	52.18	163.87	1,636.58	1,801.37	2,466.44	2,377.30	89.15	27.668		
8,900.00	7,346.75	8,400.00	7,756.62	99.17	52.12	154.69	1,622.08	1,804.87	2,487.36	2,398.50	88.86	27.993		
8,950.00	7,386.25	8,420.89	7,768.47	99.64	52.04	145.99	1,605.30	1,808.65	2,508.01	2,419.47	88.55	28.324		
9,000.00	7,424.84	8,450.00	7,783.98	100.06	51.92	137.86	1,581.17	1,813.59	2,528.24	2,440.16	88.08	28.705		
9,050.00	7,462.22	8,461.84	7,789.96	100.42	51.87	130.71	1,571.13	1,815.49	2,547.77	2,459.72	88.05	28.935		
9,100.00	7,498.11	8,482.79	7,800.05	100.74	51.77	124.23	1,553.04	1,818.69	2,566.52	2,478.67	87.85	29.216		
9,150.00	7,532.24	8,500.00	7,807.85	100.99	51.70	118.54	1,537.91	1,821.16	2,584.31	2,496.54	87.77	29.443		
9,200.00	7,564.34	8,525.47	7,818.61	101.19	51.57	113.50	1,515.08	1,824.56	2,600.97	2,513.44	87.53	29.714		
9,250.00	7,594.17	8,550.00	7,828.05	101.34	51.45	109.14	1,492.64	1,827.54	2,616.39	2,529.04	87.36	29.951		
9,300.00	7,621.50	8,569.01	7,834.73	101.45	51.35	105.43	1,474.97	1,829.64	2,630.44	2,543.07	87.37	30.108		
9,350.00	7,646.13	8,600.00	7,844.41	101.50	51.20	102.22	1,445.69	1,832.67	2,643.04	2,555.94	87.10	30.344		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,613.20	7,848.07	101.51	51.12	99.61	1,433.06	1,833.82	2,654.00	2,566.64	87.36	30.379		
9,450.00	7,686.55	8,635.48	7,853.63	101.48	51.00	97.45	1,411.55	1,835.54	2,663.34	2,575.91	87.43	30.463		
9,500.00	7,702.04	8,650.00	7,856.82	101.42	50.93	95.74	1,397.42	1,836.52	2,670.97	2,583.21	87.76	30.435		
9,550.00	7,714.20	8,680.32	7,862.38	101.33	50.76	94.43	1,367.67	1,838.22	2,676.77	2,589.08	87.69	30.524		
9,600.00	7,722.96	8,700.00	7,865.18	101.20	50.65	93.55	1,348.21	1,839.06	2,680.79	2,592.81	87.98	30.472		
9,650.00	7,728.24	8,725.38	7,867.85	101.06	50.50	93.05	1,322.98	1,839.84	2,682.94	2,594.80	88.14	30.439		
9,699.97	7,730.00	8,750.00	7,869.43	100.90	50.36	92.94	1,298.42	1,840.27	2,683.23	2,594.87	88.37	30.365		
9,760.28	7,730.00	8,778.58	7,870.00	100.69	50.20	92.95	1,274.50	1,840.37	2,682.83	2,594.01	88.82	30.205		
9,800.00	7,730.00	8,813.65	7,870.00	100.56	50.00	92.95	1,234.78	1,840.24	2,682.83	2,594.40	88.44	30.336		
9,900.00	7,730.00	8,913.65	7,870.00	100.24	49.46	92.95	1,134.78	1,839.90	2,682.83	2,595.32	87.51	30.657		
10,000.00	7,730.00	9,013.65	7,870.00	99.93	48.94	92.95	1,034.78	1,839.56	2,682.84	2,596.12	86.72	30.937		
10,100.00	7,730.00	9,113.65	7,870.00	99.64	48.46	92.95	934.78	1,839.22	2,682.84	2,596.77	86.07	31.171		
10,200.00	7,730.00	9,213.65	7,870.00	99.36	48.00	92.95	834.78	1,838.88	2,682.84	2,597.28	85.56	31.357		
10,300.00	7,730.00	9,313.65	7,870.00	99.09	47.57	92.95	734.78	1,838.54	2,682.84	2,597.64	85.19	31.491		
10,400.00	7,730.00	9,413.65	7,870.00	98.84	47.16	92.95	634.78	1,838.20	2,682.84	2,597.86	84.98	31.571		
10,500.00	7,730.00	9,513.65	7,870.00	98.61	46.78	92.95	534.78	1,837.86	2,682.84	2,597.93	84.91	31.597		
10,600.00	7,730.00	9,613.65	7,870.00	98.39	46.43	92.95	434.78	1,837.52	2,682.84	2,597.86	84.99	31.568		
10,700.00	7,730.00	9,713.65	7,870.00	98.18	46.09	92.95	334.78	1,837.18	2,682.84	2,597.63	85.21	31.484		
10,800.00	7,730.00	9,813.65	7,870.00	97.99	45.78	92.95	234.78	1,836.84	2,682.84	2,597.26	85.58	31.347		
10,900.00	7,730.00	9,913.65	7,870.00	97.81	45.50	92.95	134.79	1,836.50	2,682.85	2,596.74	86.10	31.159		
11,000.00	7,730.00	10,013.65	7,870.00	97.64	45.23	92.95	34.79	1,836.16	2,682.85	2,596.09	86.76	30.923		
11,100.00	7,730.00	10,113.65	7,870.00	97.50	45.00	92.95	-65.21	1,835.82	2,682.85	2,595.29	87.56	30.641		
11,200.00	7,730.00	10,213.65	7,870.00	97.36	44.80	92.95	-165.21	1,835.48	2,682.85	2,594.36	88.49	30.319		
11,300.00	7,730.00	10,313.65	7,870.00	97.24	44.64	92.95	-265.21	1,835.14	2,682.85	2,593.30	89.55	29.960		
11,400.00	7,730.00	10,413.65	7,870.00	97.14	44.55	92.95	-365.21	1,834.80	2,682.85	2,592.12	90.74	29.568		
11,500.00	7,730.00	10,513.65	7,870.00	97.06	44.60	92.95	-465.21	1,834.46	2,682.85	2,590.81	92.04	29.148		
11,600.00	7,730.00	10,613.65	7,870.00	96.98	44.87	92.95	-565.21	1,834.12	2,682.85	2,589.39	93.46	28.705		
11,700.00	7,730.00	10,713.65	7,870.00	96.93	45.45	92.95	-665.21	1,833.78	2,682.85	2,587.86	95.00	28.242		
11,800.00	7,730.00	10,813.65	7,870.00	96.90	46.27	92.95	-765.21	1,833.44	2,682.86	2,586.22	96.63	27.764		
11,900.00	7,730.00	10,913.65	7,870.00	96.88	47.23	92.95	-865.21	1,833.10	2,682.86	2,584.49	98.37	27.274		
12,000.00	7,730.00	11,013.65	7,870.00	96.88	48.27	92.95	-965.21	1,832.76	2,682.86	2,582.66	100.20	26.776		
12,100.00	7,730.00	11,113.65	7,870.00	96.90	49.38	92.95	-1,065.21	1,832.42	2,682.86	2,580.74	102.11	26.273		
12,200.00	7,730.00	11,213.65	7,870.00	96.94	50.53	92.95	-1,165.21	1,832.08	2,682.86	2,578.74	104.12	25.768		
12,300.00	7,730.00	11,313.65	7,870.00	97.00	51.71	92.95	-1,265.21	1,831.74	2,682.86	2,576.66	106.20	25.263		
12,400.00	7,730.00	11,413.65	7,870.00	97.08	52.93	92.95	-1,365.21	1,831.40	2,682.86	2,574.51	108.35	24.760		
12,500.00	7,730.00	11,513.65	7,870.00	97.18	54.17	92.95	-1,465.21	1,831.06	2,682.86	2,572.28	110.58	24.261		
12,600.00	7,730.00	11,613.65	7,870.00	97.31	55.44	92.95	-1,565.20	1,830.72	2,682.86	2,569.99	112.87	23.769		
12,700.00	7,730.00	11,713.65	7,870.00	97.46	56.74	92.95	-1,665.20	1,830.38	2,682.87	2,567.64	115.23	23.283		
12,800.00	7,730.00	11,813.65	7,870.00	97.64	58.06	92.95	-1,765.20	1,830.04	2,682.87	2,565.22	117.64	22.805		
12,900.00	7,730.00	11,913.65	7,870.00	97.85	59.40	92.95	-1,865.20	1,829.70	2,682.87	2,562.76	120.11	22.337		
13,000.00	7,730.00	12,013.65	7,870.00	98.09	60.75	92.95	-1,965.20	1,829.36	2,682.87	2,560.24	122.63	21.878		
13,100.00	7,730.00	12,113.65	7,870.00	98.35	62.13	92.95	-2,065.20	1,829.02	2,682.87	2,557.67	125.20	21.429		
13,200.00	7,730.00	12,213.65	7,870.00	98.65	63.52	92.95	-2,165.20	1,828.68	2,682.87	2,555.06	127.81	20.991		
13,300.00	7,730.00	12,313.65	7,870.00	98.98	64.93	92.95	-2,265.20	1,828.34	2,682.87	2,552.40	130.47	20.563		
13,400.00	7,730.00	12,413.65	7,870.00	99.34	66.35	92.95	-2,365.20	1,828.00	2,682.87	2,549.71	133.17	20.147		
13,500.00	7,730.00	12,513.65	7,870.00	99.74	67.79	92.95	-2,465.20	1,827.66	2,682.87	2,546.97	135.90	19.741		
13,600.00	7,730.00	12,613.65	7,870.00	100.17	69.24	92.95	-2,565.20	1,827.32	2,682.88	2,544.20	138.67	19.347		
13,700.00	7,730.00	12,713.65	7,870.00	100.65	70.71	92.95	-2,665.20	1,826.98	2,682.88	2,541.40	141.48	18.963		
13,800.00	7,730.00	12,813.65	7,870.00	101.16	72.18	92.95	-2,765.20	1,826.64	2,682.88	2,538.56	144.31	18.591		
13,900.00	7,730.00	12,913.65	7,870.00	101.71	73.67	92.95	-2,865.20	1,826.30	2,682.88	2,535.70	147.18	18.228		
14,000.00	7,730.00	13,013.65	7,870.00	102.30	75.17	92.95	-2,965.20	1,825.96	2,682.88	2,532.81	150.08	17.877		
14,100.00	7,730.00	13,113.65	7,870.00	102.93	76.68	92.95	-3,065.20	1,825.62	2,682.88	2,529.89	153.00	17.536		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,213.65	7,870.00	103.60	78.19	92.95	-3,165.20	1,825.28	2,682.88	2,526.94	155.94	17.204		
14,300.00	7,730.00	13,313.65	7,870.00	104.32	79.72	92.95	-3,265.19	1,824.94	2,682.88	2,523.97	158.91	16.883		
14,400.00	7,730.00	13,413.65	7,870.00	105.07	81.26	92.95	-3,365.19	1,824.60	2,682.88	2,520.98	161.90	16.571		
14,500.00	7,730.00	13,513.65	7,870.00	105.86	82.80	92.95	-3,465.19	1,824.26	2,682.89	2,517.97	164.92	16.268		
14,600.00	7,730.00	13,613.65	7,870.00	106.70	84.35	92.95	-3,565.19	1,823.92	2,682.89	2,514.94	167.95	15.974		
14,700.00	7,730.00	13,713.65	7,870.00	107.57	85.91	92.95	-3,665.19	1,823.58	2,682.89	2,511.88	171.00	15.689		
14,800.00	7,730.00	13,813.65	7,870.00	108.48	87.48	92.95	-3,765.19	1,823.24	2,682.89	2,508.82	174.07	15.412		
14,900.00	7,730.00	13,913.65	7,870.00	109.43	89.05	92.95	-3,865.19	1,822.90	2,682.89	2,505.73	177.16	15.144		
15,000.00	7,730.00	14,013.65	7,870.00	110.42	90.63	92.95	-3,965.19	1,822.56	2,682.89	2,502.63	180.27	14.883		
15,100.00	7,730.00	14,113.65	7,870.00	111.43	92.21	92.95	-4,065.19	1,822.22	2,682.89	2,499.51	183.38	14.630		
15,200.00	7,730.00	14,213.65	7,870.00	112.49	93.81	92.95	-4,165.19	1,821.88	2,682.89	2,496.38	186.52	14.384		
15,300.00	7,730.00	14,313.65	7,870.00	113.57	95.40	92.95	-4,265.19	1,821.54	2,682.89	2,493.23	189.67	14.145		
15,400.00	7,730.00	14,413.65	7,870.00	114.68	97.01	92.95	-4,365.19	1,821.20	2,682.90	2,490.07	192.83	13.914		
15,500.00	7,730.00	14,513.65	7,870.00	115.82	98.61	92.95	-4,465.19	1,820.86	2,682.90	2,486.90	196.00	13.688		
15,600.00	7,730.00	14,613.65	7,870.00	116.99	100.22	92.95	-4,565.19	1,820.52	2,682.90	2,483.71	199.19	13.469		
15,700.00	7,730.00	14,713.65	7,870.00	118.19	101.84	92.95	-4,665.19	1,820.19	2,682.90	2,480.52	202.38	13.257		
15,800.00	7,730.00	14,813.65	7,870.00	119.41	103.46	92.95	-4,765.19	1,819.85	2,682.90	2,477.31	205.59	13.050		
15,900.00	7,730.00	14,913.65	7,870.00	120.65	105.09	92.95	-4,865.19	1,819.51	2,682.90	2,474.09	208.81	12.849		
16,000.00	7,730.00	15,013.65	7,870.00	121.91	106.72	92.95	-4,965.19	1,819.17	2,682.90	2,470.87	212.04	12.653		
16,100.00	7,730.00	15,113.65	7,870.00	123.20	108.35	92.95	-5,065.18	1,818.83	2,682.90	2,467.63	215.27	12.463		
16,200.00	7,730.00	15,213.65	7,870.00	124.50	109.99	92.95	-5,165.18	1,818.49	2,682.90	2,464.38	218.52	12.278		
16,300.00	7,730.00	15,313.65	7,870.00	125.82	111.63	92.95	-5,265.18	1,818.15	2,682.91	2,461.13	221.78	12.097		
16,400.00	7,730.00	15,413.65	7,870.00	127.16	113.28	92.95	-5,365.18	1,817.81	2,682.91	2,457.87	225.04	11.922		
16,500.00	7,730.00	15,513.65	7,870.00	128.52	114.92	92.95	-5,465.18	1,817.47	2,682.91	2,454.60	228.31	11.751		
16,600.00	7,730.00	15,613.65	7,870.00	129.89	116.58	92.95	-5,565.18	1,817.13	2,682.91	2,451.32	231.59	11.585		
16,700.00	7,730.00	15,713.65	7,870.00	131.27	118.23	92.95	-5,665.18	1,816.79	2,682.91	2,448.03	234.88	11.423		
16,800.00	7,730.00	15,813.65	7,870.00	132.67	119.89	92.95	-5,765.18	1,816.45	2,682.91	2,444.74	238.17	11.265		
16,900.00	7,730.00	15,913.65	7,870.00	134.09	121.55	92.95	-5,865.18	1,816.11	2,682.91	2,441.44	241.47	11.111		
17,000.00	7,730.00	16,013.65	7,870.00	135.51	123.21	92.95	-5,965.18	1,815.77	2,682.91	2,438.14	244.78	10.961		
17,100.00	7,730.00	16,113.65	7,870.00	136.95	124.88	92.95	-6,065.18	1,815.43	2,682.91	2,434.83	248.09	10.814		
17,200.00	7,730.00	16,213.65	7,870.00	138.40	126.54	92.95	-6,165.18	1,815.09	2,682.92	2,431.51	251.41	10.672		
17,300.00	7,730.00	16,313.65	7,870.00	139.85	128.21	92.95	-6,265.18	1,814.75	2,682.92	2,428.18	254.73	10.532		
17,400.00	7,730.00	16,413.65	7,870.00	141.32	129.89	92.95	-6,365.18	1,814.41	2,682.92	2,424.86	258.06	10.396		
17,500.00	7,730.00	16,513.65	7,870.00	142.80	131.56	92.95	-6,465.18	1,814.07	2,682.92	2,421.52	261.40	10.264		
17,600.00	7,730.00	16,613.65	7,870.00	144.28	133.24	92.95	-6,565.18	1,813.73	2,682.92	2,418.18	264.74	10.134		
17,700.00	7,730.00	16,713.65	7,870.00	145.78	134.92	92.95	-6,665.18	1,813.39	2,682.92	2,414.84	268.08	10.008		
17,800.00	7,730.00	16,813.65	7,870.00	147.28	136.60	92.95	-6,765.17	1,813.05	2,682.92	2,411.49	271.43	9.884		
17,900.00	7,730.00	16,913.65	7,870.00	148.79	138.29	92.95	-6,865.17	1,812.71	2,682.92	2,408.14	274.79	9.764		
18,000.00	7,730.00	17,013.65	7,870.00	150.31	139.97	92.95	-6,965.17	1,812.37	2,682.92	2,404.78	278.14	9.646		
18,100.00	7,730.00	17,113.65	7,870.00	151.83	141.66	92.95	-7,065.17	1,812.03	2,682.93	2,401.42	281.51	9.531		
18,200.00	7,730.00	17,213.65	7,870.00	153.37	143.35	92.95	-7,165.17	1,811.69	2,682.93	2,398.05	284.87	9.418		
18,300.00	7,730.00	17,313.65	7,870.00	154.90	145.04	92.95	-7,265.17	1,811.35	2,682.93	2,394.68	288.25	9.308		
18,400.00	7,730.00	17,413.65	7,870.00	156.45	146.73	92.95	-7,365.17	1,811.01	2,682.93	2,391.31	291.62	9.200		
18,500.00	7,730.00	17,513.65	7,870.00	158.00	148.43	92.95	-7,465.17	1,810.67	2,682.93	2,387.93	295.00	9.095		
18,600.00	7,730.00	17,613.65	7,870.00	159.55	150.12	92.95	-7,565.17	1,810.33	2,682.93	2,384.55	298.38	8.992		
18,700.00	7,730.00	17,713.65	7,870.00	161.11	151.82	92.95	-7,665.17	1,809.99	2,682.93	2,381.17	301.77	8.891		
18,800.00	7,730.00	17,813.65	7,870.00	162.68	153.52	92.95	-7,765.17	1,809.65	2,682.93	2,377.78	305.15	8.792		
18,900.00	7,730.00	17,913.65	7,870.00	164.25	155.22	92.95	-7,865.17	1,809.31	2,682.93	2,374.39	308.55	8.695		
19,000.00	7,730.00	18,013.65	7,870.00	165.83	156.92	92.95	-7,965.17	1,808.97	2,682.94	2,371.00	311.94	8.601		
19,100.00	7,730.00	18,113.65	7,870.00	167.41	158.62	92.95	-8,065.17	1,808.63	2,682.94	2,367.60	315.34	8.508		
19,200.00	7,730.00	18,213.65	7,870.00	168.99	160.33	92.95	-8,165.17	1,808.29	2,682.94	2,364.20	318.74	8.417		
19,300.00	7,730.00	18,313.65	7,870.00	170.58	162.03	92.95	-8,265.17	1,807.95	2,682.94	2,360.80	322.14	8.328		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,413.65	7,870.00	172.17	163.74	92.95	-8,365.17	1,807.61	2,682.94	2,357.39	325.55	8.241	
19,430.54	7,730.00	18,444.18	7,870.00	172.66	164.26	92.95	-8,395.70	1,807.51	2,682.94	2,356.35	326.59	8.215 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.70	0.36	-70.00	70.00					
100.00	100.00	102.00	102.00	0.13	0.14	-89.70	0.36	-70.00	70.00	69.73	0.28	253.607		
200.00	200.00	202.00	202.00	0.49	0.50	-89.70	0.36	-70.00	70.00	69.01	0.99	70.497		
300.00	300.00	302.00	302.00	0.85	0.86	-89.70	0.36	-70.00	70.00	68.29	1.71	40.939		
400.00	400.00	402.00	402.00	1.21	1.22	-89.70	0.36	-70.00	70.00	67.57	2.43	28.845		
500.00	500.00	502.00	502.00	1.57	1.58	-89.70	0.36	-70.00	70.00	66.86	3.14	22.267	CC, ES	
600.00	599.98	601.98	601.98	1.92	1.93	-155.63	0.36	-70.00	71.59	67.73	3.86	18.565		
700.00	699.84	701.84	701.84	2.28	2.29	-157.21	0.36	-70.00	76.39	71.82	4.57	16.722		
800.00	799.45	801.45	801.45	2.64	2.65	-159.44	0.36	-70.00	84.49	79.21	5.28	15.994		
900.00	898.70	900.70	900.70	3.02	3.00	-161.92	0.36	-70.00	96.00	90.00	6.00	16.002		
1,000.00	997.47	1,000.53	999.47	3.41	3.36	-164.35	0.36	-70.00	110.99	104.27	6.72	16.514		
1,100.00	1,095.62	1,102.38	1,097.62	3.84	3.73	-166.54	0.36	-70.00	129.48	122.03	7.45	17.375		
1,200.00	1,193.06	1,195.06	1,195.06	4.29	4.06	-168.42	0.36	-70.00	151.47	143.32	8.15	18.577		
1,300.00	1,289.64	1,296.90	1,296.88	4.78	4.42	-169.84	1.48	-68.80	175.56	166.67	8.89	19.755		
1,400.00	1,385.27	1,399.81	1,399.65	5.32	4.79	-170.59	5.10	-64.90	199.99	190.36	9.62	20.781		
1,500.00	1,479.82	1,503.56	1,502.99	5.90	5.16	-170.87	11.30	-58.23	224.66	214.30	10.37	21.673		
1,600.00	1,573.17	1,608.13	1,606.75	6.53	5.54	-170.81	20.11	-48.73	249.54	238.43	11.12	22.448		
1,700.00	1,665.21	1,713.52	1,710.77	7.23	5.94	-170.50	31.60	-36.36	274.60	262.72	11.88	23.117		
1,800.00	1,755.84	1,819.73	1,814.90	7.98	6.36	-169.99	45.80	-21.07	299.82	287.16	12.66	23.691		
1,900.00	1,844.94	1,926.75	1,918.98	8.80	6.81	-169.33	62.75	-2.81	325.18	311.73	13.45	24.173		
2,000.00	1,932.39	2,034.57	2,022.82	9.68	7.30	-168.55	82.50	18.45	350.70	336.42	14.28	24.566		
2,100.00	2,018.11	2,143.19	2,126.24	10.63	7.83	-167.67	105.06	42.75	376.36	361.23	15.13	24.870		
2,200.00	2,101.97	2,252.60	2,229.07	11.65	8.41	-166.70	130.47	70.12	402.17	386.14	16.03	25.084		
2,300.00	2,183.88	2,362.78	2,331.12	12.74	9.05	-165.67	158.74	100.56	428.13	411.14	16.99	25.206		
2,400.00	2,263.74	2,473.73	2,432.18	13.90	9.75	-164.57	189.89	134.10	454.24	436.24	18.00	25.232		
2,431.61	2,288.54	2,508.96	2,463.88	14.29	9.99	-164.21	200.33	145.35	462.52	444.18	18.34	25.220		
2,500.00	2,341.97	2,585.64	2,532.24	15.13	10.52	-163.49	223.98	170.81	479.74	460.65	19.09	25.124		
2,600.00	2,420.08	2,681.64	2,617.30	16.37	11.23	-162.59	254.25	203.41	504.07	483.82	20.25	24.889		
2,700.00	2,498.20	2,778.34	2,702.99	17.63	11.96	-161.77	284.75	236.26	528.50	507.05	21.45	24.640		
2,800.00	2,576.32	2,875.04	2,788.68	18.89	12.72	-161.03	315.25	269.10	553.03	530.35	22.68	24.384		
2,900.00	2,654.43	2,971.75	2,874.37	20.17	13.48	-160.34	345.74	301.95	577.63	553.69	23.94	24.127		
3,000.00	2,732.55	3,068.45	2,960.06	21.45	14.26	-159.72	376.24	334.79	602.31	577.08	25.23	23.872		
3,100.00	2,810.67	3,165.15	3,045.75	22.74	15.05	-159.14	406.74	367.64	627.05	600.50	26.55	23.621		
3,200.00	2,888.78	3,261.86	3,131.44	24.03	15.85	-158.60	437.24	400.48	651.85	623.96	27.88	23.379		
3,300.00	2,966.90	3,358.56	3,217.13	25.33	16.65	-158.11	467.74	433.32	676.69	647.45	29.24	23.144		
3,400.00	3,045.02	3,455.27	3,302.82	26.63	17.47	-157.65	498.24	466.17	701.58	670.97	30.61	22.918		
3,500.00	3,123.13	3,551.97	3,388.51	27.94	18.28	-157.22	528.74	499.01	726.51	694.51	32.00	22.702		
3,600.00	3,201.25	3,648.67	3,474.20	29.24	19.11	-156.82	559.23	531.86	751.48	718.07	33.41	22.495		
3,700.00	3,279.37	3,745.38	3,559.89	30.55	19.93	-156.44	589.73	564.70	776.47	741.65	34.82	22.297		
3,800.00	3,357.49	3,842.08	3,645.58	31.86	20.77	-156.09	620.23	597.55	801.50	765.25	36.25	22.109		
3,900.00	3,435.60	3,938.79	3,731.27	33.18	21.60	-155.76	650.73	630.39	826.56	788.86	37.69	21.929		
4,000.00	3,513.72	4,035.49	3,816.96	34.49	22.44	-155.45	681.23	663.24	851.63	812.49	39.14	21.758		
4,100.00	3,591.84	4,132.19	3,902.65	35.81	23.28	-155.16	711.73	696.08	876.73	836.14	40.60	21.595		
4,200.00	3,669.95	4,228.90	3,988.34	37.12	24.12	-154.88	742.23	728.93	901.85	859.79	42.06	21.440		
4,300.00	3,748.07	4,325.60	4,074.03	38.44	24.96	-154.62	772.72	761.77	926.99	883.46	43.54	21.292		
4,400.00	3,826.19	4,422.30	4,159.72	39.76	25.81	-154.37	803.22	794.62	952.15	907.13	45.02	21.151		
4,500.00	3,904.30	4,519.01	4,245.40	41.08	26.66	-154.13	833.72	827.46	977.32	930.82	46.50	21.017		
4,600.00	3,982.42	4,615.71	4,331.09	42.40	27.51	-153.91	864.22	860.31	1,002.51	954.52	47.99	20.889		
4,700.00	4,060.54	4,712.42	4,416.78	43.72	28.36	-153.70	894.72	893.15	1,027.71	978.22	49.49	20.766		
4,800.00	4,138.66	4,809.12	4,502.47	45.05	29.21	-153.49	925.22	926.00	1,052.92	1,001.93	50.99	20.649		
4,900.00	4,216.77	4,905.82	4,588.16	46.37	30.07	-153.30	955.72	958.84	1,078.15	1,025.65	52.50	20.538		
5,000.00	4,294.89	5,002.53	4,673.85	47.69	30.92	-153.12	986.22	991.68	1,103.38	1,049.38	54.01	20.431		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,099.23	4,759.54	49.02	31.78	-152.94	1,016.71	1,024.53	1,128.63	1,073.11	55.52	20.329		
5,200.00	4,451.12	5,195.93	4,845.23	50.34	32.64	-152.77	1,047.21	1,057.37	1,153.89	1,096.85	57.04	20.231		
5,300.00	4,529.24	5,292.64	4,930.92	51.67	33.49	-152.61	1,077.71	1,090.22	1,179.15	1,120.59	58.56	20.137		
5,400.00	4,607.36	5,389.34	5,016.61	52.99	34.35	-152.46	1,108.21	1,123.06	1,204.42	1,144.34	60.08	20.047		
5,500.00	4,685.47	5,486.05	5,102.30	54.32	35.21	-152.31	1,138.71	1,155.91	1,229.70	1,168.10	61.61	19.960		
5,600.00	4,763.59	5,582.75	5,187.99	55.64	36.07	-152.17	1,169.21	1,188.75	1,254.99	1,191.86	63.14	19.877		
5,700.00	4,841.71	5,679.45	5,273.68	56.97	36.93	-152.03	1,199.71	1,221.60	1,280.29	1,215.62	64.67	19.798		
5,800.00	4,919.83	5,776.16	5,359.37	58.30	37.79	-151.90	1,230.20	1,254.44	1,305.59	1,239.39	66.20	19.721		
5,900.00	4,997.94	5,872.86	5,445.06	59.62	38.66	-151.77	1,260.70	1,287.29	1,330.90	1,263.16	67.74	19.648		
6,000.00	5,076.06	5,969.56	5,530.75	60.95	39.52	-151.65	1,291.20	1,320.13	1,356.21	1,286.93	69.28	19.577		
6,100.00	5,154.18	6,066.27	5,616.44	62.28	40.38	-151.54	1,321.70	1,352.98	1,381.53	1,310.71	70.82	19.508		
6,200.00	5,232.29	6,162.97	5,702.13	63.61	41.25	-151.42	1,352.20	1,385.82	1,406.85	1,334.50	72.36	19.443		
6,300.00	5,310.41	6,259.68	5,787.82	64.93	42.11	-151.31	1,382.70	1,418.67	1,432.18	1,358.28	73.90	19.379		
6,400.00	5,388.53	6,356.38	5,873.50	66.26	42.97	-151.21	1,413.20	1,451.51	1,457.52	1,382.07	75.45	19.318		
6,500.00	5,466.64	6,453.08	5,959.19	67.59	43.84	-151.11	1,443.69	1,484.35	1,482.86	1,405.86	77.00	19.259		
6,600.00	5,544.76	6,549.79	6,044.88	68.92	44.70	-151.01	1,474.19	1,517.20	1,508.20	1,429.65	78.54	19.202		
6,700.00	5,622.88	6,646.49	6,130.57	70.25	45.57	-150.91	1,504.69	1,550.04	1,533.55	1,453.45	80.10	19.147		
6,800.00	5,701.00	6,743.20	6,216.26	71.58	46.43	-150.82	1,535.19	1,582.89	1,558.90	1,477.25	81.65	19.093		
6,900.00	5,779.11	6,839.90	6,301.95	72.91	47.30	-150.73	1,565.69	1,615.73	1,584.25	1,501.05	83.20	19.042		
7,000.00	5,857.23	6,936.60	6,387.64	74.23	48.17	-150.65	1,596.19	1,648.58	1,609.61	1,524.85	84.75	18.992		
7,100.00	5,935.35	7,033.31	6,473.33	75.56	49.03	-150.56	1,626.69	1,681.42	1,634.97	1,548.66	86.31	18.943		
7,200.00	6,013.46	7,130.01	6,559.02	76.89	49.90	-150.48	1,657.19	1,714.27	1,660.33	1,572.47	87.86	18.896		
7,300.00	6,091.58	7,226.71	6,644.71	78.22	50.77	-150.41	1,687.68	1,747.11	1,685.70	1,596.28	89.42	18.851		
7,400.00	6,169.70	7,323.42	6,730.40	79.55	51.63	-150.33	1,718.18	1,779.96	1,711.07	1,620.09	90.98	18.807		
7,500.00	6,247.81	7,420.12	6,816.09	80.88	52.50	-150.26	1,748.68	1,812.80	1,736.44	1,643.90	92.54	18.764		
7,600.00	6,325.93	7,516.83	6,901.78	82.21	53.37	-150.18	1,779.18	1,845.65	1,761.82	1,667.72	94.10	18.723		
7,700.00	6,404.05	7,613.53	6,987.47	83.54	54.24	-150.11	1,809.68	1,878.49	1,787.19	1,691.53	95.66	18.683		
7,800.00	6,482.17	7,735.36	7,096.81	84.87	55.28	-150.21	1,842.85	1,920.38	1,812.20	1,714.92	97.28	18.629		
7,900.00	6,560.28	7,870.62	7,222.60	86.20	56.15	-151.20	1,851.60	1,968.47	1,835.24	1,737.63	97.61	18.802		
8,000.00	6,638.40	7,987.50	7,330.30	87.53	56.61	-152.80	1,833.56	2,009.56	1,857.13	1,760.43	96.70	19.205		
8,100.00	6,716.52	8,082.02	7,413.49	88.86	56.77	-154.53	1,802.10	2,041.24	1,879.38	1,784.08	95.30	19.721		
8,200.00	6,794.63	8,156.25	7,474.76	90.20	56.80	-156.14	1,767.39	2,064.53	1,903.32	1,809.46	93.86	20.278		
8,300.00	6,872.75	8,214.28	7,519.45	91.53	56.75	-157.51	1,734.53	2,081.50	1,929.89	1,837.36	92.53	20.856		
8,400.00	6,950.87	8,260.02	7,552.35	92.86	56.67	-158.67	1,705.32	2,093.97	1,959.66	1,868.33	91.33	21.456		
8,500.00	7,028.98	8,300.00	7,579.25	94.19	56.59	-159.72	1,677.56	2,104.15	1,992.95	1,902.81	90.13	22.111		
8,600.00	7,107.10	8,326.21	7,595.87	95.52	56.52	-160.42	1,658.30	2,110.43	2,029.85	1,940.67	89.18	22.762		
8,647.91	7,144.53	8,338.47	7,603.36	96.16	56.48	-160.76	1,649.01	2,113.27	2,048.82	1,960.13	88.69	23.102		
8,650.00	7,146.16	8,338.99	7,603.67	96.18	56.48	-161.11	1,648.62	2,113.38	2,049.67	1,961.00	88.66	23.117		
8,700.00	7,185.66	8,350.00	7,610.24	96.84	56.45	-169.85	1,640.13	2,115.86	2,070.32	1,982.10	88.22	23.468		
8,750.00	7,225.78	8,365.78	7,619.37	97.47	56.40	-179.21	1,627.73	2,119.31	2,091.58	2,003.88	87.70	23.848		
8,800.00	7,266.21	8,380.61	7,627.66	98.08	56.35	171.20	1,615.84	2,122.44	2,113.22	2,025.95	87.27	24.214		
8,850.00	7,306.63	8,400.00	7,638.06	98.64	56.28	161.53	1,599.96	2,126.36	2,135.03	2,048.25	86.78	24.604		
8,900.00	7,346.75	8,412.51	7,644.50	99.17	56.23	152.31	1,589.51	2,128.78	2,156.75	2,070.24	86.52	24.929		
8,950.00	7,386.25	8,429.38	7,652.85	99.64	56.17	143.52	1,575.19	2,131.92	2,178.21	2,092.01	86.19	25.271		
9,000.00	7,424.84	8,450.00	7,662.52	100.06	56.09	135.36	1,557.34	2,135.56	2,199.19	2,113.36	85.82	25.625		
9,050.00	7,462.22	8,464.61	7,669.00	100.42	56.03	128.07	1,544.48	2,137.99	2,219.49	2,133.81	85.67	25.907		
9,100.00	7,498.11	8,482.85	7,676.66	100.74	55.95	121.52	1,528.18	2,140.86	2,238.94	2,153.46	85.48	26.193		
9,150.00	7,532.24	8,500.00	7,683.41	100.99	55.88	115.75	1,512.62	2,143.39	2,257.39	2,172.01	85.37	26.441		
9,200.00	7,564.34	8,520.32	7,690.85	101.19	55.78	110.68	1,493.92	2,146.16	2,274.66	2,189.42	85.24	26.686		
9,250.00	7,594.17	8,550.00	7,700.59	101.34	55.64	106.20	1,466.11	2,149.79	2,290.69	2,205.81	84.88	26.987		
9,300.00	7,621.50	8,550.00	7,700.59	101.45	55.64	102.60	1,466.11	2,149.79	2,305.22	2,219.74	85.48	26.967		
9,350.00	7,646.13	8,578.42	7,708.64	101.50	55.50	99.34	1,439.03	2,152.77	2,318.19	2,232.90	85.29	27.182		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,600.00	7,713.91	101.51	55.39	96.66	1,418.19	2,154.72	2,329.55	2,244.19	85.36	27.291		
9,450.00	7,686.55	8,618.04	7,717.76	101.48	55.30	94.49	1,400.63	2,156.13	2,339.20	2,253.58	85.62	27.322		
9,500.00	7,702.04	8,650.00	7,723.29	101.42	55.14	92.72	1,369.21	2,158.13	2,347.13	2,261.65	85.48	27.459		
9,550.00	7,714.20	8,650.00	7,723.29	101.33	55.14	91.47	1,369.21	2,158.13	2,353.10	2,266.62	86.47	27.211		
9,600.00	7,722.96	8,678.25	7,726.81	101.20	54.98	90.56	1,341.22	2,159.38	2,357.18	2,270.60	86.59	27.224		
9,650.00	7,728.24	8,700.00	7,728.64	101.06	54.87	90.06	1,319.55	2,160.01	2,359.39	2,272.42	86.97	27.128		
9,699.97	7,730.00	8,718.60	7,729.60	100.90	54.77	89.94	1,300.98	2,160.31	2,359.66	2,272.13	87.53	26.958		
9,749.05	7,730.00	8,746.75	7,730.00	100.73	54.62	89.95	1,284.67	2,160.41	2,359.28	2,271.16	88.12	26.774		
9,800.00	7,730.00	8,785.86	7,730.00	100.56	54.41	89.95	1,233.72	2,160.24	2,359.28	2,271.66	87.62	26.925		
9,900.00	7,730.00	8,885.86	7,730.00	100.24	53.89	89.95	1,133.72	2,159.89	2,359.28	2,272.65	86.63	27.233		
10,000.00	7,730.00	8,985.86	7,730.00	99.93	53.40	89.95	1,033.73	2,159.55	2,359.29	2,273.51	85.78	27.504		
10,100.00	7,730.00	9,085.86	7,730.00	99.64	52.94	89.95	933.73	2,159.21	2,359.29	2,274.23	85.06	27.736		
10,200.00	7,730.00	9,185.86	7,730.00	99.36	52.50	89.95	833.73	2,158.87	2,359.29	2,274.80	84.49	27.924		
10,300.00	7,730.00	9,285.86	7,730.00	99.09	52.09	89.95	733.73	2,158.53	2,359.29	2,275.23	84.06	28.066		
10,400.00	7,730.00	9,385.86	7,730.00	98.84	51.70	89.95	633.73	2,158.19	2,359.30	2,275.51	83.78	28.159		
10,500.00	7,730.00	9,485.86	7,730.00	98.61	51.34	89.95	533.73	2,157.85	2,359.30	2,275.64	83.66	28.202		
10,600.00	7,730.00	9,585.86	7,730.00	98.39	51.00	89.95	433.73	2,157.51	2,359.30	2,275.62	83.68	28.195		
10,700.00	7,730.00	9,685.86	7,730.00	98.18	50.68	89.95	333.73	2,157.16	2,359.30	2,275.46	83.85	28.138		
10,800.00	7,730.00	9,785.86	7,730.00	97.99	50.39	89.95	233.73	2,156.82	2,359.31	2,275.14	84.17	28.031		
10,900.00	7,730.00	9,885.86	7,730.00	97.81	50.13	89.95	133.73	2,156.48	2,359.31	2,274.67	84.64	27.876		
11,000.00	7,730.00	9,985.86	7,730.00	97.64	49.89	89.95	33.73	2,156.14	2,359.31	2,274.06	85.25	27.675		
11,100.00	7,730.00	10,085.86	7,730.00	97.50	49.68	89.95	-66.27	2,155.80	2,359.31	2,273.31	86.00	27.433		
11,200.00	7,730.00	10,185.86	7,730.00	97.36	49.50	89.95	-166.27	2,155.46	2,359.32	2,272.42	86.90	27.151		
11,300.00	7,730.00	10,285.86	7,730.00	97.24	49.37	89.95	-266.27	2,155.12	2,359.32	2,271.40	87.92	26.835		
11,400.00	7,730.00	10,385.86	7,730.00	97.14	49.28	89.95	-366.27	2,154.78	2,359.32	2,270.25	89.07	26.487		
11,500.00	7,730.00	10,485.86	7,730.00	97.06	49.25	89.95	-466.27	2,154.43	2,359.32	2,268.97	90.35	26.113		
11,600.00	7,730.00	10,585.86	7,730.00	96.98	49.30	89.95	-566.27	2,154.09	2,359.33	2,267.58	91.75	25.715		
11,700.00	7,730.00	10,685.86	7,730.00	96.93	49.47	89.95	-666.26	2,153.75	2,359.33	2,266.07	93.26	25.299		
11,800.00	7,730.00	10,785.86	7,730.00	96.90	49.77	89.95	-766.26	2,153.41	2,359.33	2,264.46	94.87	24.868		
11,900.00	7,730.00	10,885.86	7,730.00	96.88	50.23	89.95	-866.26	2,153.07	2,359.33	2,262.74	96.59	24.426		
12,000.00	7,730.00	10,985.86	7,730.00	96.88	50.85	89.95	-966.26	2,152.73	2,359.34	2,260.93	98.41	23.975		
12,100.00	7,730.00	11,085.86	7,730.00	96.90	51.63	89.95	-1,066.26	2,152.39	2,359.34	2,259.03	100.31	23.520		
12,200.00	7,730.00	11,185.86	7,730.00	96.94	52.53	89.95	-1,166.26	2,152.05	2,359.34	2,257.04	102.31	23.062		
12,300.00	7,730.00	11,285.86	7,730.00	97.00	53.52	89.95	-1,266.26	2,151.70	2,359.34	2,254.96	104.38	22.604		
12,400.00	7,730.00	11,385.86	7,730.00	97.08	54.59	89.95	-1,366.26	2,151.36	2,359.35	2,252.82	106.53	22.147		
12,500.00	7,730.00	11,485.86	7,730.00	97.18	55.72	89.95	-1,466.26	2,151.02	2,359.35	2,250.60	108.75	21.695		
12,600.00	7,730.00	11,585.86	7,730.00	97.31	56.90	89.95	-1,566.26	2,150.68	2,359.35	2,248.31	111.04	21.247		
12,700.00	7,730.00	11,685.86	7,730.00	97.46	58.12	89.95	-1,666.26	2,150.34	2,359.35	2,245.96	113.40	20.806		
12,800.00	7,730.00	11,785.86	7,730.00	97.64	59.37	89.95	-1,766.26	2,150.00	2,359.36	2,243.55	115.81	20.373		
12,900.00	7,730.00	11,885.86	7,730.00	97.85	60.66	89.95	-1,866.26	2,149.66	2,359.36	2,241.08	118.28	19.947		
13,000.00	7,730.00	11,985.86	7,730.00	98.09	61.97	89.95	-1,966.26	2,149.32	2,359.36	2,238.56	120.80	19.531		
13,100.00	7,730.00	12,085.86	7,730.00	98.35	63.30	89.95	-2,066.26	2,148.97	2,359.36	2,235.99	123.37	19.124		
13,200.00	7,730.00	12,185.86	7,730.00	98.65	64.65	89.95	-2,166.26	2,148.63	2,359.37	2,233.37	125.99	18.726		
13,300.00	7,730.00	12,285.86	7,730.00	98.98	66.03	89.95	-2,266.26	2,148.29	2,359.37	2,230.72	128.65	18.339		
13,400.00	7,730.00	12,385.86	7,730.00	99.34	67.42	89.95	-2,366.25	2,147.95	2,359.37	2,228.02	131.36	17.962		
13,500.00	7,730.00	12,485.86	7,730.00	99.74	68.83	89.95	-2,466.25	2,147.61	2,359.37	2,225.28	134.10	17.594		
13,600.00	7,730.00	12,585.86	7,730.00	100.17	70.25	89.95	-2,566.25	2,147.27	2,359.38	2,222.50	136.87	17.237		
13,700.00	7,730.00	12,685.86	7,730.00	100.65	71.69	89.95	-2,666.25	2,146.93	2,359.38	2,219.69	139.69	16.891		
13,800.00	7,730.00	12,785.86	7,730.00	101.16	73.14	89.95	-2,766.25	2,146.59	2,359.38	2,216.85	142.53	16.554		
13,900.00	7,730.00	12,885.86	7,730.00	101.71	74.61	89.95	-2,866.25	2,146.25	2,359.38	2,213.98	145.40	16.226		
14,000.00	7,730.00	12,985.86	7,730.00	102.30	76.08	89.95	-2,966.25	2,145.90	2,359.39	2,211.08	148.31	15.909		
14,100.00	7,730.00	13,085.86	7,730.00	102.93	77.57	89.95	-3,066.25	2,145.56	2,359.39	2,208.15	151.23	15.601		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,185.86	7,730.00	103.60	79.07	89.95	-3,166.25	2,145.22	2,359.39	2,205.20	154.19	15.302		
14,300.00	7,730.00	13,285.86	7,730.00	104.32	80.58	89.95	-3,266.25	2,144.88	2,359.39	2,202.23	157.17	15.012		
14,400.00	7,730.00	13,385.86	7,730.00	105.07	82.09	89.95	-3,366.25	2,144.54	2,359.40	2,199.23	160.17	14.731		
14,500.00	7,730.00	13,485.86	7,730.00	105.86	83.62	89.95	-3,466.25	2,144.20	2,359.40	2,196.21	163.19	14.458		
14,600.00	7,730.00	13,585.86	7,730.00	106.70	85.15	89.95	-3,566.25	2,143.86	2,359.40	2,193.17	166.23	14.193		
14,700.00	7,730.00	13,685.86	7,730.00	107.57	86.70	89.95	-3,666.25	2,143.52	2,359.40	2,190.11	169.29	13.937		
14,800.00	7,730.00	13,785.86	7,730.00	108.48	88.25	89.95	-3,766.25	2,143.17	2,359.41	2,187.03	172.37	13.688		
14,900.00	7,730.00	13,885.86	7,730.00	109.43	89.81	89.95	-3,866.25	2,142.83	2,359.41	2,183.94	175.47	13.446		
15,000.00	7,730.00	13,985.86	7,730.00	110.42	91.37	89.95	-3,966.25	2,142.49	2,359.41	2,180.83	178.58	13.212		
15,100.00	7,730.00	14,085.86	7,730.00	111.43	92.94	89.95	-4,066.24	2,142.15	2,359.41	2,177.71	181.71	12.985		
15,200.00	7,730.00	14,185.86	7,730.00	112.49	94.52	89.95	-4,166.24	2,141.81	2,359.42	2,174.57	184.85	12.764		
15,300.00	7,730.00	14,285.86	7,730.00	113.57	96.10	89.95	-4,266.24	2,141.47	2,359.42	2,171.41	188.01	12.550		
15,400.00	7,730.00	14,385.86	7,730.00	114.68	97.69	89.95	-4,366.24	2,141.13	2,359.42	2,168.24	191.18	12.342		
15,500.00	7,730.00	14,485.86	7,730.00	115.82	99.29	89.95	-4,466.24	2,140.79	2,359.42	2,165.06	194.36	12.140		
15,600.00	7,730.00	14,585.86	7,730.00	116.99	100.88	89.95	-4,566.24	2,140.44	2,359.43	2,161.87	197.55	11.943		
15,700.00	7,730.00	14,685.86	7,730.00	118.19	102.49	89.95	-4,666.24	2,140.10	2,359.43	2,158.67	200.76	11.753		
15,800.00	7,730.00	14,785.86	7,730.00	119.41	104.10	89.95	-4,766.24	2,139.76	2,359.43	2,155.46	203.97	11.567		
15,900.00	7,730.00	14,885.86	7,730.00	120.65	105.71	89.95	-4,866.24	2,139.42	2,359.43	2,152.23	207.20	11.387		
16,000.00	7,730.00	14,985.86	7,730.00	121.91	107.33	89.95	-4,966.24	2,139.08	2,359.44	2,149.00	210.44	11.212		
16,100.00	7,730.00	15,085.86	7,730.00	123.20	108.95	89.95	-5,066.24	2,138.74	2,359.44	2,145.75	213.68	11.042		
16,200.00	7,730.00	15,185.86	7,730.00	124.50	110.58	89.95	-5,166.24	2,138.40	2,359.44	2,142.50	216.94	10.876		
16,300.00	7,730.00	15,285.86	7,730.00	125.82	112.21	89.95	-5,266.24	2,138.06	2,359.44	2,139.24	220.20	10.715		
16,400.00	7,730.00	15,385.86	7,730.00	127.16	113.85	89.95	-5,366.24	2,137.71	2,359.45	2,135.97	223.47	10.558		
16,500.00	7,730.00	15,485.86	7,730.00	128.52	115.48	89.95	-5,466.24	2,137.37	2,359.45	2,132.69	226.75	10.405		
16,600.00	7,730.00	15,585.86	7,730.00	129.89	117.13	89.95	-5,566.24	2,137.03	2,359.45	2,129.41	230.04	10.257		
16,700.00	7,730.00	15,685.86	7,730.00	131.27	118.77	89.95	-5,666.24	2,136.69	2,359.45	2,126.12	233.34	10.112		
16,800.00	7,730.00	15,785.86	7,730.00	132.67	120.42	89.95	-5,766.24	2,136.35	2,359.46	2,122.82	236.64	9.971		
16,900.00	7,730.00	15,885.86	7,730.00	134.09	122.07	89.95	-5,866.23	2,136.01	2,359.46	2,119.51	239.95	9.833		
17,000.00	7,730.00	15,985.86	7,730.00	135.51	123.72	89.95	-5,966.23	2,135.67	2,359.46	2,116.20	243.26	9.699		
17,100.00	7,730.00	16,085.86	7,730.00	136.95	125.38	89.95	-6,066.23	2,135.33	2,359.46	2,112.88	246.58	9.569		
17,200.00	7,730.00	16,185.86	7,730.00	138.40	127.04	89.95	-6,166.23	2,134.98	2,359.47	2,109.56	249.91	9.441		
17,300.00	7,730.00	16,285.86	7,730.00	139.85	128.70	89.95	-6,266.23	2,134.64	2,359.47	2,106.23	253.24	9.317		
17,400.00	7,730.00	16,385.86	7,730.00	141.32	130.36	89.95	-6,366.23	2,134.30	2,359.47	2,102.90	256.58	9.196		
17,500.00	7,730.00	16,485.86	7,730.00	142.80	132.03	89.95	-6,466.23	2,133.96	2,359.47	2,099.56	259.92	9.078		
17,600.00	7,730.00	16,585.86	7,730.00	144.28	133.70	89.95	-6,566.23	2,133.62	2,359.48	2,096.21	263.27	8.962		
17,700.00	7,730.00	16,685.86	7,730.00	145.78	135.37	89.95	-6,666.23	2,133.28	2,359.48	2,092.86	266.62	8.850		
17,800.00	7,730.00	16,785.86	7,730.00	147.28	137.05	89.95	-6,766.23	2,132.94	2,359.48	2,089.51	269.98	8.740		
17,900.00	7,730.00	16,885.86	7,730.00	148.79	138.72	89.95	-6,866.23	2,132.60	2,359.48	2,086.15	273.34	8.632		
18,000.00	7,730.00	16,985.86	7,730.00	150.31	140.40	89.95	-6,966.23	2,132.25	2,359.49	2,082.78	276.70	8.527		
18,100.00	7,730.00	17,085.86	7,730.00	151.83	142.08	89.95	-7,066.23	2,131.91	2,359.49	2,079.42	280.07	8.425		
18,200.00	7,730.00	17,185.86	7,730.00	153.37	143.76	89.95	-7,166.23	2,131.57	2,359.49	2,076.04	283.45	8.324		
18,300.00	7,730.00	17,285.86	7,730.00	154.90	145.45	89.95	-7,266.23	2,131.23	2,359.49	2,072.67	286.82	8.226		
18,400.00	7,730.00	17,385.86	7,730.00	156.45	147.13	89.95	-7,366.23	2,130.89	2,359.50	2,069.29	290.21	8.130		
18,500.00	7,730.00	17,485.86	7,730.00	158.00	148.82	89.95	-7,466.23	2,130.55	2,359.50	2,065.91	293.59	8.037		
18,600.00	7,730.00	17,585.86	7,730.00	159.55	150.51	89.95	-7,566.22	2,130.21	2,359.50	2,062.52	296.98	7.945		
18,700.00	7,730.00	17,685.86	7,730.00	161.11	152.20	89.95	-7,666.22	2,129.87	2,359.50	2,059.13	300.37	7.855		
18,800.00	7,730.00	17,785.86	7,730.00	162.68	153.89	89.95	-7,766.22	2,129.53	2,359.51	2,055.74	303.77	7.767		
18,900.00	7,730.00	17,885.86	7,730.00	164.25	155.59	89.95	-7,866.22	2,129.18	2,359.51	2,052.34	307.17	7.682		
19,000.00	7,730.00	17,985.86	7,730.00	165.83	157.28	89.95	-7,966.22	2,128.84	2,359.51	2,048.94	310.57	7.597		
19,100.00	7,730.00	18,085.86	7,730.00	167.41	158.98	89.95	-8,066.22	2,128.50	2,359.51	2,045.54	313.97	7.515		
19,200.00	7,730.00	18,185.86	7,730.00	168.99	160.68	89.95	-8,166.22	2,128.16	2,359.52	2,042.14	317.38	7.434		
19,300.00	7,730.00	18,285.86	7,730.00	170.58	162.38	89.95	-8,266.22	2,127.82	2,359.52	2,038.73	320.79	7.355		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1C-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,385.86	7,730.00	172.17	164.08	89.95	-8,366.22	2,127.48	2,359.52	2,035.32	324.20	7.278	
19,430.54	7,730.00	18,416.40	7,730.00	172.66	164.60	89.95	-8,396.76	2,127.37	2,359.52	2,034.28	325.24	7.255 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.65	0.36	-59.92	59.92					
100.00	100.00	102.00	102.00	0.13	0.14	-89.65	0.36	-59.92	59.92	59.65	0.28	217.089		
200.00	200.00	202.00	202.00	0.49	0.50	-89.65	0.36	-59.92	59.92	58.93	0.99	60.346		
300.00	300.00	302.00	302.00	0.85	0.86	-89.65	0.36	-59.92	59.92	58.21	1.71	35.044		
400.00	400.00	402.00	402.00	1.21	1.22	-89.65	0.36	-59.92	59.92	57.49	2.43	24.691		
500.00	500.00	502.00	502.00	1.57	1.58	-89.65	0.36	-59.92	59.92	56.78	3.14	19.060	CC, ES	
600.00	599.98	601.98	601.98	1.92	1.93	-155.68	0.36	-59.92	61.51	57.65	3.86	15.951		
700.00	699.84	701.84	701.84	2.28	2.29	-157.50	0.36	-59.92	66.31	61.74	4.57	14.517		
800.00	799.45	801.45	801.45	2.64	2.65	-160.01	0.36	-59.92	74.44	69.16	5.28	14.091		
900.00	898.70	900.70	900.70	3.02	3.00	-162.72	0.36	-59.92	86.00	80.00	6.00	14.335		
1,000.00	997.47	1,000.53	999.47	3.41	3.36	-165.27	0.36	-59.92	101.06	94.33	6.72	15.036		
1,100.00	1,095.62	1,097.62	1,097.62	3.84	3.71	-167.51	0.36	-59.92	119.62	112.19	7.43	16.089		
1,200.00	1,193.06	1,199.49	1,199.47	4.29	4.07	-169.18	1.45	-58.58	140.19	132.02	8.16	17.174		
1,300.00	1,289.64	1,302.19	1,302.02	4.78	4.44	-170.10	4.85	-54.37	161.01	152.12	8.89	18.109		
1,400.00	1,385.27	1,405.62	1,405.04	5.32	4.81	-170.51	10.60	-47.25	182.00	172.38	9.62	18.910		
1,500.00	1,479.82	1,509.79	1,508.40	5.90	5.19	-170.57	18.75	-37.16	203.12	192.75	10.36	19.598		
1,600.00	1,573.17	1,614.70	1,611.93	6.53	5.59	-170.36	29.34	-24.05	224.32	213.21	11.11	20.183		
1,700.00	1,665.21	1,720.34	1,715.50	7.23	6.01	-169.96	42.41	-7.88	245.60	233.73	11.88	20.682		
1,800.00	1,755.84	1,826.71	1,818.94	7.98	6.46	-169.41	57.97	11.40	266.94	254.29	12.65	21.097		
1,900.00	1,844.94	1,933.81	1,922.09	8.80	6.95	-168.73	76.08	33.81	288.34	274.88	13.45	21.432		
2,000.00	1,932.39	2,041.63	2,024.76	9.68	7.49	-167.95	96.74	59.38	309.78	295.50	14.28	21.691		
2,100.00	2,018.11	2,150.16	2,126.80	10.63	8.07	-167.09	119.97	88.14	331.26	316.12	15.15	21.871		
2,200.00	2,101.97	2,259.41	2,228.02	11.65	8.72	-166.16	145.79	120.11	352.78	336.73	16.05	21.974		
2,300.00	2,183.88	2,369.35	2,328.22	12.74	9.43	-165.17	174.21	155.28	374.34	357.32	17.02	21.996		
2,400.00	2,263.74	2,479.99	2,427.24	13.90	10.21	-164.12	205.22	193.67	395.94	377.89	18.05	21.938		
2,431.61	2,288.54	2,515.10	2,458.25	14.29	10.48	-163.79	215.56	206.47	402.77	384.38	18.39	21.902		
2,500.00	2,341.97	2,591.47	2,525.00	15.13	11.07	-163.09	238.87	235.33	416.80	397.64	19.16	21.758		
2,600.00	2,420.08	2,689.36	2,609.92	16.37	11.88	-162.18	269.48	273.22	436.25	415.89	20.36	21.426		
2,700.00	2,498.20	2,787.23	2,694.81	17.63	12.70	-161.34	300.07	311.09	455.81	434.20	21.61	21.095		
2,800.00	2,576.32	2,885.09	2,779.71	18.89	13.54	-160.58	330.66	348.96	475.44	452.55	22.89	20.770		
2,900.00	2,654.43	2,982.95	2,864.60	20.17	14.40	-159.88	361.26	386.84	495.15	470.95	24.21	20.453		
3,000.00	2,732.55	3,080.82	2,949.49	21.45	15.27	-159.23	391.85	424.71	514.93	489.38	25.56	20.149		
3,100.00	2,810.67	3,178.68	3,034.39	22.74	16.15	-158.62	422.45	462.58	534.77	507.84	26.93	19.857		
3,200.00	2,888.78	3,276.54	3,119.28	24.03	17.04	-158.07	453.04	500.45	554.66	526.33	28.33	19.579		
3,300.00	2,966.90	3,374.41	3,204.17	25.33	17.94	-157.55	483.63	538.33	574.60	544.85	29.75	19.315		
3,400.00	3,045.02	3,472.27	3,289.07	26.63	18.84	-157.06	514.23	576.20	594.58	563.39	31.19	19.065		
3,500.00	3,123.13	3,570.13	3,373.96	27.94	19.75	-156.61	544.82	614.07	614.59	581.95	32.64	18.827		
3,600.00	3,201.25	3,668.00	3,458.86	29.24	20.66	-156.18	575.42	651.94	634.65	600.53	34.12	18.603		
3,700.00	3,279.37	3,765.86	3,543.75	30.55	21.58	-155.78	606.01	689.82	654.73	619.13	35.60	18.390		
3,800.00	3,357.49	3,863.72	3,628.64	31.86	22.50	-155.41	636.60	727.69	674.85	637.74	37.10	18.189		
3,900.00	3,435.60	3,961.59	3,713.54	33.18	23.42	-155.05	667.20	765.56	694.98	656.37	38.61	17.999		
4,000.00	3,513.72	4,059.45	3,798.43	34.49	24.35	-154.72	697.79	803.43	715.15	675.02	40.13	17.820		
4,100.00	3,591.84	4,157.31	3,883.32	35.81	25.28	-154.40	728.38	841.31	735.33	693.67	41.66	17.649		
4,200.00	3,669.95	4,255.17	3,968.22	37.12	26.21	-154.10	758.98	879.18	755.54	712.34	43.20	17.488		
4,300.00	3,748.07	4,353.04	4,053.11	38.44	27.14	-153.82	789.57	917.05	775.76	731.01	44.75	17.335		
4,400.00	3,826.19	4,450.90	4,138.00	39.76	28.08	-153.55	820.17	954.92	796.01	749.70	46.31	17.190		
4,500.00	3,904.30	4,548.76	4,222.90	41.08	29.01	-153.30	850.76	992.80	816.26	768.40	47.87	17.053		
4,600.00	3,982.42	4,646.63	4,307.79	42.40	29.95	-153.05	881.35	1,030.67	836.54	787.10	49.44	16.922		
4,700.00	4,060.54	4,744.49	4,392.68	43.72	30.89	-152.82	911.95	1,068.54	856.82	805.81	51.01	16.797		
4,800.00	4,138.66	4,842.35	4,477.58	45.05	31.83	-152.60	942.54	1,106.41	877.12	824.53	52.59	16.679		
4,900.00	4,216.77	4,940.22	4,562.47	46.37	32.77	-152.39	973.13	1,144.29	897.43	843.26	54.17	16.566		
5,000.00	4,294.89	5,038.08	4,647.36	47.69	33.72	-152.19	1,003.73	1,182.16	917.75	861.99	55.76	16.459		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,135.94	4,732.26	49.02	34.66	-152.00	1,034.32	1,220.03	938.09	880.73	57.35	16.356		
5,200.00	4,451.12	5,233.81	4,817.15	50.34	35.61	-151.81	1,064.92	1,257.90	958.43	899.48	58.95	16.258		
5,300.00	4,529.24	5,331.67	4,902.05	51.67	36.55	-151.63	1,095.51	1,295.78	978.78	918.23	60.55	16.164		
5,400.00	4,607.36	5,429.53	4,986.94	52.99	37.50	-151.46	1,126.10	1,333.65	999.14	936.99	62.16	16.075		
5,500.00	4,685.47	5,527.40	5,071.83	54.32	38.45	-151.30	1,156.70	1,371.52	1,019.51	955.75	63.76	15.989		
5,600.00	4,763.59	5,625.26	5,156.73	55.64	39.39	-151.15	1,187.29	1,409.39	1,039.89	974.51	65.37	15.907		
5,700.00	4,841.71	5,723.12	5,241.62	56.97	40.34	-150.99	1,217.88	1,447.27	1,060.27	993.28	66.99	15.828		
5,800.00	4,919.83	5,820.99	5,326.51	58.30	41.29	-150.85	1,248.48	1,485.14	1,080.66	1,012.06	68.60	15.752		
5,900.00	4,997.94	5,918.85	5,411.41	59.62	42.24	-150.71	1,279.07	1,523.01	1,101.06	1,030.83	70.22	15.680		
6,000.00	5,076.06	6,016.71	5,496.30	60.95	43.19	-150.58	1,309.67	1,560.88	1,121.46	1,049.62	71.84	15.610		
6,100.00	5,154.18	6,114.58	5,581.19	62.28	44.14	-150.45	1,340.26	1,598.76	1,141.87	1,068.40	73.47	15.543		
6,200.00	5,232.29	6,212.44	5,666.09	63.61	45.09	-150.32	1,370.85	1,636.63	1,162.28	1,087.19	75.09	15.478		
6,300.00	5,310.41	6,310.30	5,750.98	64.93	46.04	-150.20	1,401.45	1,674.50	1,182.70	1,105.98	76.72	15.416		
6,400.00	5,388.53	6,408.17	5,835.87	66.26	46.99	-150.08	1,432.04	1,712.37	1,203.12	1,124.77	78.35	15.356		
6,500.00	5,466.64	6,506.03	5,920.77	67.59	47.95	-149.97	1,462.64	1,750.25	1,223.55	1,143.57	79.98	15.299		
6,600.00	5,544.76	6,603.89	6,005.66	68.92	48.90	-149.86	1,493.23	1,788.12	1,243.98	1,162.37	81.61	15.243		
6,700.00	5,622.88	6,701.76	6,090.56	70.25	49.85	-149.76	1,523.82	1,825.99	1,264.42	1,181.17	83.24	15.189		
6,800.00	5,701.00	6,799.62	6,175.45	71.58	50.80	-149.65	1,554.42	1,863.86	1,284.86	1,199.98	84.88	15.137		
6,900.00	5,779.11	6,902.52	6,260.34	72.91	51.81	-149.55	1,585.01	1,901.74	1,305.30	1,218.75	86.55	15.081		
7,000.00	5,857.23	6,995.35	6,345.24	74.23	52.71	-149.46	1,615.60	1,939.61	1,325.75	1,237.60	88.15	15.039		
7,100.00	5,935.35	7,106.79	6,430.13	75.56	53.80	-149.37	1,646.20	1,977.48	1,346.20	1,256.31	89.90	14.975		
7,200.00	6,013.46	7,191.07	6,515.02	76.89	54.62	-149.27	1,676.79	2,015.35	1,366.66	1,275.22	91.44	14.947		
7,300.00	6,091.58	7,288.94	6,599.92	78.22	55.57	-149.19	1,707.39	2,053.23	1,387.12	1,294.04	93.08	14.903		
7,400.00	6,169.70	7,386.80	6,684.81	79.55	56.53	-149.10	1,737.98	2,091.10	1,407.58	1,312.86	94.72	14.860		
7,500.00	6,247.81	7,484.66	6,769.70	80.88	57.48	-149.02	1,768.57	2,128.97	1,428.04	1,331.68	96.36	14.819		
7,600.00	6,325.93	7,582.53	6,854.60	82.21	58.44	-148.94	1,799.17	2,166.84	1,448.51	1,350.50	98.01	14.779		
7,700.00	6,404.05	7,680.39	6,939.49	83.54	59.39	-148.86	1,829.76	2,204.71	1,468.98	1,369.32	99.66	14.741		
7,800.00	6,482.17	7,778.24	7,024.00	84.87	60.68	-148.78	1,859.35	2,242.60	1,488.46	1,387.00	100.82	14.703		
7,900.00	6,560.28	7,876.14	7,108.51	86.20	61.51	-148.70	1,888.94	2,280.49	1,507.94	1,404.06	99.87	15.059		
8,000.00	6,638.40	7,974.04	7,193.02	87.53	61.90	-148.62	1,918.53	2,318.38	1,527.42	1,421.36	97.87	15.523		
8,100.00	6,716.52	8,071.94	7,277.53	88.86	62.05	-148.54	1,948.12	2,356.27	1,546.90	1,438.07	95.74	16.041		
8,200.00	6,794.63	8,169.84	7,362.04	90.20	62.07	-148.46	1,977.71	2,394.16	1,566.38	1,454.57	93.82	16.576		
8,300.00	6,872.75	8,267.74	7,446.55	91.53	62.03	-148.38	1,716.24	2,432.04	1,578.49	1,486.34	92.14	17.131		
8,400.00	6,950.87	8,365.64	7,531.06	92.86	61.98	-148.30	1,688.49	2,469.93	1,606.10	1,515.47	90.63	17.721		
8,500.00	7,028.98	8,463.54	7,615.57	94.19	61.93	-148.22	1,666.64	2,507.82	1,638.31	1,549.02	89.29	18.348		
8,600.00	7,107.10	8,561.44	7,700.08	95.52	61.86	-148.14	1,644.87	2,545.71	1,675.12	1,587.29	87.83	19.073		
8,647.91	7,144.53	8,599.33	7,737.49	96.16	61.83	-148.06	1,636.35	2,462.62	1,694.36	1,607.20	87.17	19.438		
8,650.00	7,146.16	8,599.77	7,737.93	96.18	61.83	-148.01	1,635.99	2,462.73	1,695.23	1,608.09	87.14	19.454		
8,700.00	7,185.66	8,639.00	7,776.16	96.84	61.81	-147.93	1,627.83	2,465.21	1,716.30	1,629.79	86.51	19.839		
8,750.00	7,225.78	8,678.23	7,814.39	97.47	61.77	-147.85	1,616.56	2,468.50	1,738.04	1,652.19	85.85	20.244		
8,800.00	7,266.21	8,717.46	7,852.68	98.08	61.72	-147.77	1,605.33	2,471.60	1,760.21	1,674.92	85.29	20.639		
8,850.00	7,306.63	8,756.69	7,891.97	98.64	61.66	-147.69	1,586.43	2,476.48	1,782.58	1,698.06	84.52	21.090		
8,900.00	7,346.75	8,795.92	7,931.26	99.17	61.66	-147.61	1,566.58	2,476.48	1,804.85	1,720.33	84.53	21.353		
8,950.00	7,386.25	8,835.15	7,970.55	99.64	61.58	-147.53	1,546.73	2,481.16	1,826.82	1,742.92	83.90	21.774		
9,000.00	7,424.84	8,874.38	8,009.84	100.06	61.48	-147.45	1,526.88	2,486.23	1,848.40	1,765.17	83.22	22.211		
9,050.00	7,462.22	8,913.61	8,049.13	100.42	61.48	-147.37	1,506.93	2,491.30	1,869.17	1,785.70	83.47	22.394		
9,100.00	7,498.11	8,952.84	8,088.42	100.74	61.39	-147.29	1,487.08	2,496.37	1,889.08	1,806.03	83.05	22.745		
9,150.00	7,532.24	8,991.67	8,127.71	100.99	61.29	-147.21	1,467.23	2,499.38	1,908.02	1,825.41	82.61	23.096		
9,200.00	7,564.34	9,030.50	8,167.00	101.19	61.29	-147.13	1,447.38	2,499.38	1,925.71	1,842.57	83.14	23.161		
9,250.00	7,594.17	9,069.33	8,206.29	101.34	61.17	-147.05	1,427.53	2,498.15	1,942.01	1,859.17	82.84	23.443		
9,300.00	7,621.50	9,108.16	8,245.58	101.45	61.07	-146.97	1,407.68	2,500.89	1,956.89	1,874.12	82.77	23.642		
9,350.00	7,646.13	9,146.99	8,284.87	101.50	61.01	-146.89	1,387.83	2,502.45	1,970.18	1,887.08	83.09	23.710		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,633.30	7,615.93	101.51	60.92	93.84	1,417.68	2,504.28	1,981.79	1,898.44	83.35	23.777		
9,450.00	7,686.55	8,650.00	7,619.23	101.48	60.84	91.66	1,401.37	2,505.69	1,991.65	1,907.87	83.78	23.772		
9,500.00	7,702.04	8,671.38	7,622.81	101.42	60.74	89.92	1,380.35	2,507.21	1,999.67	1,915.54	84.12	23.770		
9,550.00	7,714.20	8,700.00	7,626.48	101.33	60.60	88.59	1,352.01	2,508.75	2,005.86	1,921.61	84.25	23.808		
9,600.00	7,722.96	8,700.00	7,626.48	101.20	60.60	87.72	1,352.01	2,508.75	2,010.07	1,924.40	85.66	23.465		
9,650.00	7,728.24	8,729.10	7,628.89	101.06	60.46	87.21	1,323.03	2,509.72	2,012.25	1,926.32	85.93	23.417		
9,699.97	7,730.00	8,750.00	7,629.78	100.90	60.35	87.09	1,302.15	2,510.05	2,012.52	1,925.90	86.62	23.234		
9,800.00	7,730.00	8,819.72	7,630.00	100.56	60.00	87.09	1,232.44	2,509.91	2,012.19	1,925.36	86.83	23.174		
9,810.75	7,730.00	8,830.46	7,630.00	100.52	59.95	87.09	1,221.69	2,509.88	2,012.19	1,925.47	86.71	23.205		
9,900.00	7,730.00	8,919.72	7,630.00	100.24	59.52	87.09	1,132.44	2,509.58	2,012.18	1,926.41	85.78	23.458		
10,000.00	7,730.00	9,019.72	7,630.00	99.93	59.06	87.09	1,032.44	2,509.24	2,012.18	1,927.32	84.86	23.711		
10,100.00	7,730.00	9,119.72	7,630.00	99.64	58.63	87.09	932.44	2,508.90	2,012.18	1,928.09	84.09	23.930		
10,200.00	7,730.00	9,219.72	7,630.00	99.36	58.22	87.09	832.44	2,508.57	2,012.18	1,928.72	83.45	24.111		
10,300.00	7,730.00	9,319.72	7,630.00	99.09	57.83	87.09	732.44	2,508.23	2,012.18	1,929.21	82.97	24.252		
10,400.00	7,730.00	9,419.72	7,630.00	98.84	57.47	87.09	632.44	2,507.89	2,012.17	1,929.54	82.63	24.351		
10,500.00	7,730.00	9,519.72	7,630.00	98.61	57.13	87.09	532.44	2,507.56	2,012.17	1,929.73	82.44	24.407		
10,600.00	7,730.00	9,619.72	7,630.00	98.39	56.81	87.09	432.44	2,507.22	2,012.17	1,929.76	82.41	24.417		
10,700.00	7,730.00	9,719.72	7,630.00	98.18	56.52	87.09	332.45	2,506.88	2,012.17	1,929.64	82.53	24.382		
10,800.00	7,730.00	9,819.72	7,630.00	97.99	56.25	87.09	232.45	2,506.55	2,012.17	1,929.37	82.79	24.303		
10,900.00	7,730.00	9,919.72	7,630.00	97.81	56.00	87.09	132.45	2,506.21	2,012.16	1,928.95	83.21	24.182		
11,000.00	7,730.00	10,019.72	7,630.00	97.64	55.78	87.09	32.45	2,505.87	2,012.16	1,928.39	83.78	24.018		
11,100.00	7,730.00	10,119.72	7,630.00	97.50	55.59	87.09	-67.55	2,505.54	2,012.16	1,927.68	84.48	23.817		
11,200.00	7,730.00	10,219.72	7,630.00	97.36	55.42	87.09	-167.55	2,505.20	2,012.16	1,926.82	85.33	23.580		
11,300.00	7,730.00	10,319.72	7,630.00	97.24	55.29	87.09	-267.55	2,504.86	2,012.16	1,925.84	86.32	23.310		
11,400.00	7,730.00	10,419.72	7,630.00	97.14	55.20	87.09	-367.55	2,504.53	2,012.15	1,924.72	87.44	23.012		
11,500.00	7,730.00	10,519.72	7,630.00	97.06	55.14	87.09	-467.55	2,504.19	2,012.15	1,923.47	88.68	22.690		
11,600.00	7,730.00	10,619.72	7,630.00	96.98	55.14	87.09	-567.55	2,503.85	2,012.15	1,922.10	90.05	22.345		
11,700.00	7,730.00	10,719.72	7,630.00	96.93	55.19	87.09	-667.55	2,503.52	2,012.15	1,920.62	91.53	21.984		
11,800.00	7,730.00	10,819.72	7,630.00	96.90	55.31	87.09	-767.55	2,503.18	2,012.15	1,919.03	93.12	21.608		
11,900.00	7,730.00	10,919.72	7,630.00	96.88	55.51	87.09	-867.55	2,502.84	2,012.14	1,917.33	94.82	21.222		
12,000.00	7,730.00	11,019.72	7,630.00	96.88	55.80	87.09	-967.55	2,502.51	2,012.14	1,915.53	96.61	20.827		
12,100.00	7,730.00	11,119.72	7,630.00	96.90	56.20	87.09	-1,067.55	2,502.17	2,012.14	1,913.64	98.50	20.428		
12,200.00	7,730.00	11,219.72	7,630.00	96.94	56.71	87.09	-1,167.55	2,501.83	2,012.14	1,911.66	100.48	20.026		
12,300.00	7,730.00	11,319.72	7,630.00	97.00	57.33	87.09	-1,267.55	2,501.50	2,012.14	1,909.60	102.54	19.624		
12,400.00	7,730.00	11,419.72	7,630.00	97.08	58.06	87.09	-1,367.55	2,501.16	2,012.13	1,907.46	104.67	19.223		
12,500.00	7,730.00	11,519.72	7,630.00	97.18	58.89	87.09	-1,467.54	2,500.82	2,012.13	1,905.24	106.89	18.825		
12,600.00	7,730.00	11,619.72	7,630.00	97.31	59.81	87.09	-1,567.54	2,500.49	2,012.13	1,902.96	109.17	18.432		
12,700.00	7,730.00	11,719.72	7,630.00	97.46	60.82	87.09	-1,667.54	2,500.15	2,012.13	1,900.61	111.51	18.044		
12,800.00	7,730.00	11,819.72	7,630.00	97.64	61.88	87.09	-1,767.54	2,499.81	2,012.13	1,898.20	113.92	17.663		
12,900.00	7,730.00	11,919.72	7,630.00	97.85	63.01	87.09	-1,867.54	2,499.48	2,012.12	1,895.74	116.38	17.289		
13,000.00	7,730.00	12,019.72	7,630.00	98.09	64.19	87.09	-1,967.54	2,499.14	2,012.12	1,893.22	118.90	16.922		
13,100.00	7,730.00	12,119.72	7,630.00	98.35	65.40	87.09	-2,067.54	2,498.80	2,012.12	1,890.65	121.47	16.565		
13,200.00	7,730.00	12,219.72	7,630.00	98.65	66.66	87.09	-2,167.54	2,498.47	2,012.12	1,888.03	124.09	16.216		
13,300.00	7,730.00	12,319.72	7,630.00	98.98	67.94	87.09	-2,267.54	2,498.13	2,012.11	1,885.37	126.74	15.875		
13,400.00	7,730.00	12,419.72	7,630.00	99.34	69.25	87.09	-2,367.54	2,497.79	2,012.11	1,882.67	129.45	15.544		
13,500.00	7,730.00	12,519.72	7,630.00	99.74	70.59	87.09	-2,467.54	2,497.46	2,012.11	1,879.93	132.19	15.222		
13,600.00	7,730.00	12,619.72	7,630.00	100.17	71.95	87.09	-2,567.54	2,497.12	2,012.11	1,877.15	134.96	14.909		
13,700.00	7,730.00	12,719.72	7,630.00	100.65	73.33	87.09	-2,667.54	2,496.78	2,012.11	1,874.33	137.77	14.605		
13,800.00	7,730.00	12,819.72	7,630.00	101.16	74.73	87.09	-2,767.54	2,496.45	2,012.10	1,871.49	140.62	14.309		
13,900.00	7,730.00	12,919.72	7,630.00	101.71	76.15	87.09	-2,867.54	2,496.11	2,012.10	1,868.61	143.49	14.023		
14,000.00	7,730.00	13,019.72	7,630.00	102.30	77.58	87.09	-2,967.54	2,495.77	2,012.10	1,865.71	146.39	13.745		
14,100.00	7,730.00	13,119.72	7,630.00	102.93	79.02	87.09	-3,067.54	2,495.44	2,012.10	1,862.78	149.32	13.475		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,219.72	7,630.00	103.60	80.48	87.09	-3,167.54	2,495.10	2,012.10	1,859.82	152.28	13.213		
14,300.00	7,730.00	13,319.72	7,630.00	104.32	81.95	87.09	-3,267.53	2,494.76	2,012.09	1,856.84	155.26	12.960		
14,400.00	7,730.00	13,419.72	7,630.00	105.07	83.44	87.09	-3,367.53	2,494.43	2,012.09	1,853.84	158.26	12.714		
14,500.00	7,730.00	13,519.72	7,630.00	105.86	84.93	87.09	-3,467.53	2,494.09	2,012.09	1,850.81	161.28	12.476		
14,600.00	7,730.00	13,619.72	7,630.00	106.70	86.43	87.09	-3,567.53	2,493.75	2,012.09	1,847.77	164.32	12.245		
14,700.00	7,730.00	13,719.72	7,630.00	107.57	87.95	87.09	-3,667.53	2,493.42	2,012.09	1,844.70	167.38	12.021		
14,800.00	7,730.00	13,819.72	7,630.00	108.48	89.47	87.09	-3,767.53	2,493.08	2,012.08	1,841.62	170.47	11.803		
14,900.00	7,730.00	13,919.72	7,630.00	109.43	91.00	87.09	-3,867.53	2,492.74	2,012.08	1,838.52	173.56	11.593		
15,000.00	7,730.00	14,019.72	7,630.00	110.42	92.54	87.09	-3,967.53	2,492.41	2,012.08	1,835.40	176.68	11.389		
15,100.00	7,730.00	14,119.72	7,630.00	111.43	94.09	87.09	-4,067.53	2,492.07	2,012.08	1,832.27	179.81	11.190		
15,200.00	7,730.00	14,219.72	7,630.00	112.49	95.64	87.09	-4,167.53	2,491.73	2,012.08	1,829.13	182.95	10.998		
15,300.00	7,730.00	14,319.72	7,630.00	113.57	97.20	87.09	-4,267.53	2,491.40	2,012.07	1,825.97	186.11	10.811		
15,400.00	7,730.00	14,419.72	7,630.00	114.68	98.77	87.09	-4,367.53	2,491.06	2,012.07	1,822.80	189.28	10.630		
15,500.00	7,730.00	14,519.72	7,630.00	115.82	100.34	87.09	-4,467.53	2,490.72	2,012.07	1,819.61	192.46	10.454		
15,600.00	7,730.00	14,619.72	7,630.00	116.99	101.92	87.09	-4,567.53	2,490.39	2,012.07	1,816.41	195.65	10.284		
15,700.00	7,730.00	14,719.72	7,630.00	118.19	103.51	87.09	-4,667.53	2,490.05	2,012.07	1,813.20	198.86	10.118		
15,800.00	7,730.00	14,819.72	7,630.00	119.41	105.10	87.09	-4,767.53	2,489.71	2,012.06	1,809.99	202.08	9.957		
15,900.00	7,730.00	14,919.72	7,630.00	120.65	106.69	87.09	-4,867.53	2,489.38	2,012.06	1,806.76	205.31	9.800		
16,000.00	7,730.00	15,019.72	7,630.00	121.91	108.30	87.09	-4,967.53	2,489.04	2,012.06	1,803.52	208.54	9.648		
16,100.00	7,730.00	15,119.72	7,630.00	123.20	109.90	87.09	-5,067.52	2,488.70	2,012.06	1,800.27	211.79	9.500		
16,200.00	7,730.00	15,219.72	7,630.00	124.50	111.51	87.09	-5,167.52	2,488.37	2,012.06	1,797.01	215.05	9.356		
16,300.00	7,730.00	15,319.72	7,630.00	125.82	113.13	87.09	-5,267.52	2,488.03	2,012.05	1,793.74	218.31	9.217		
16,400.00	7,730.00	15,419.72	7,630.00	127.16	114.74	87.09	-5,367.52	2,487.69	2,012.05	1,790.47	221.58	9.080		
16,500.00	7,730.00	15,519.72	7,630.00	128.52	116.37	87.09	-5,467.52	2,487.36	2,012.05	1,787.19	224.86	8.948		
16,600.00	7,730.00	15,619.72	7,630.00	129.89	117.99	87.09	-5,567.52	2,487.02	2,012.05	1,783.90	228.15	8.819		
16,700.00	7,730.00	15,719.72	7,630.00	131.27	119.62	87.09	-5,667.52	2,486.68	2,012.05	1,780.60	231.44	8.693		
16,800.00	7,730.00	15,819.72	7,630.00	132.67	121.26	87.09	-5,767.52	2,486.35	2,012.04	1,777.30	234.75	8.571		
16,900.00	7,730.00	15,919.72	7,630.00	134.09	122.89	87.09	-5,867.52	2,486.01	2,012.04	1,773.99	238.05	8.452		
17,000.00	7,730.00	16,019.72	7,630.00	135.51	124.53	87.09	-5,967.52	2,485.67	2,012.04	1,770.67	241.37	8.336		
17,100.00	7,730.00	16,119.72	7,630.00	136.95	126.18	87.09	-6,067.52	2,485.34	2,012.04	1,767.35	244.69	8.223		
17,200.00	7,730.00	16,219.72	7,630.00	138.40	127.82	87.09	-6,167.52	2,485.00	2,012.04	1,764.02	248.02	8.113		
17,300.00	7,730.00	16,319.72	7,630.00	139.85	129.47	87.09	-6,267.52	2,484.66	2,012.03	1,760.69	251.35	8.005		
17,400.00	7,730.00	16,419.72	7,630.00	141.32	131.13	87.09	-6,367.52	2,484.33	2,012.03	1,757.35	254.68	7.900		
17,500.00	7,730.00	16,519.72	7,630.00	142.80	132.78	87.09	-6,467.52	2,483.99	2,012.03	1,754.00	258.03	7.798		
17,600.00	7,730.00	16,619.72	7,630.00	144.28	134.44	87.09	-6,567.52	2,483.65	2,012.03	1,750.65	261.37	7.698		
17,700.00	7,730.00	16,719.72	7,630.00	145.78	136.10	87.09	-6,667.52	2,483.32	2,012.03	1,747.30	264.73	7.600		
17,800.00	7,730.00	16,819.72	7,630.00	147.28	137.76	87.09	-6,767.51	2,482.98	2,012.02	1,743.94	268.08	7.505		
17,900.00	7,730.00	16,919.72	7,630.00	148.79	139.43	87.09	-6,867.51	2,482.64	2,012.02	1,740.58	271.44	7.412		
18,000.00	7,730.00	17,019.72	7,630.00	150.31	141.10	87.09	-6,967.51	2,482.31	2,012.02	1,737.21	274.81	7.321		
18,100.00	7,730.00	17,119.72	7,630.00	151.83	142.76	87.09	-7,067.51	2,481.97	2,012.02	1,733.84	278.18	7.233		
18,200.00	7,730.00	17,219.72	7,630.00	153.37	144.44	87.09	-7,167.51	2,481.63	2,012.01	1,730.46	281.55	7.146		
18,300.00	7,730.00	17,319.72	7,630.00	154.90	146.11	87.09	-7,267.51	2,481.30	2,012.01	1,727.08	284.93	7.061		
18,400.00	7,730.00	17,419.72	7,630.00	156.45	147.79	87.09	-7,367.51	2,480.96	2,012.01	1,723.70	288.31	6.979		
18,500.00	7,730.00	17,519.72	7,630.00	158.00	149.46	87.09	-7,467.51	2,480.62	2,012.01	1,720.31	291.70	6.898		
18,600.00	7,730.00	17,619.72	7,630.00	159.55	151.14	87.09	-7,567.51	2,480.29	2,012.01	1,716.92	295.08	6.818		
18,700.00	7,730.00	17,719.72	7,630.00	161.11	152.83	87.09	-7,667.51	2,479.95	2,012.00	1,713.53	298.47	6.741		
18,800.00	7,730.00	17,819.72	7,630.00	162.68	154.51	87.09	-7,767.51	2,479.61	2,012.00	1,710.13	301.87	6.665		
18,900.00	7,730.00	17,919.72	7,630.00	164.25	156.19	87.09	-7,867.51	2,479.28	2,012.00	1,706.73	305.27	6.591		
19,000.00	7,730.00	18,019.72	7,630.00	165.83	157.88	87.09	-7,967.51	2,478.94	2,012.00	1,703.33	308.67	6.518		
19,100.00	7,730.00	18,119.72	7,630.00	167.41	159.57	87.09	-8,067.51	2,478.60	2,012.00	1,699.93	312.07	6.447		
19,200.00	7,730.00	18,219.72	7,630.00	168.99	161.26	87.09	-8,167.51	2,478.27	2,011.99	1,696.52	315.48	6.378		
19,300.00	7,730.00	18,319.72	7,630.00	170.58	162.95	87.09	-8,267.51	2,477.93	2,011.99	1,693.11	318.89	6.309		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,419.72	7,630.00	172.17	164.64	87.09	-8,367.51	2,477.59	2,011.99	1,689.69	322.30	6.243	
19,430.54	7,730.00	18,450.25	7,630.00	172.66	165.16	87.09	-8,398.04	2,477.49	2,011.99	1,688.65	323.34	6.223 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	2.00	0.00	0.00	-89.58	0.36	-49.84	49.84				
100.00	100.00	102.00	102.00	0.13	0.14	-89.58	0.36	-49.84	49.84	49.57	0.28	180.571	
200.00	200.00	202.00	202.00	0.49	0.50	-89.58	0.36	-49.84	49.84	48.85	0.99	50.195	
300.00	300.00	302.00	302.00	0.85	0.86	-89.58	0.36	-49.84	49.84	48.13	1.71	29.149	
400.00	400.00	402.00	402.00	1.21	1.22	-89.58	0.36	-49.84	49.84	47.41	2.43	20.538	
500.00	500.00	502.00	502.00	1.57	1.58	-89.58	0.36	-49.84	49.84	46.70	3.14	15.854	CC, ES
600.00	599.98	601.98	601.98	1.92	1.93	-155.74	0.36	-49.84	51.43	47.57	3.86	13.337	
700.00	699.84	701.84	701.84	2.28	2.29	-157.90	0.36	-49.84	56.24	51.67	4.57	12.312	
800.00	799.45	801.45	801.45	2.64	2.65	-160.76	0.36	-49.84	64.40	59.12	5.28	12.191	
900.00	898.70	900.70	900.70	3.02	3.00	-163.72	0.36	-49.84	76.02	70.02	6.00	16.667	
1,000.00	997.47	999.47	999.47	3.41	3.36	-166.41	0.36	-49.84	91.15	84.43	6.72	13.571	
1,100.00	1,095.62	1,101.18	1,101.16	3.84	3.72	-168.39	1.40	-48.38	108.20	100.76	7.44	14.546	
1,200.00	1,193.06	1,203.54	1,203.37	4.29	4.08	-169.53	4.55	-43.95	125.45	117.29	8.16	15.374	
1,300.00	1,289.64	1,306.52	1,305.94	4.78	4.45	-170.10	9.85	-36.48	142.82	133.93	8.88	16.074	
1,400.00	1,385.27	1,410.13	1,408.73	5.32	4.83	-170.30	17.33	-25.94	160.25	150.63	9.61	16.667	
1,500.00	1,479.82	1,514.36	1,511.60	5.90	5.23	-170.23	27.03	-12.29	177.72	167.36	10.35	17.165	
1,600.00	1,573.17	1,619.22	1,614.41	6.53	5.66	-169.95	38.96	4.51	195.20	184.10	11.10	17.587	
1,700.00	1,665.21	1,724.71	1,717.00	7.23	6.11	-169.52	53.15	24.50	212.69	200.83	11.86	17.933	
1,800.00	1,755.84	1,830.81	1,819.21	7.98	6.60	-168.96	69.63	47.70	230.16	217.52	12.64	18.211	
1,900.00	1,844.94	1,937.54	1,920.89	8.80	7.14	-168.30	88.40	74.13	247.62	234.18	13.44	18.424	
2,000.00	1,932.39	2,044.87	2,021.86	9.68	7.73	-167.56	109.47	103.81	265.05	250.78	14.27	18.573	
2,100.00	2,018.11	2,152.82	2,121.96	10.63	8.37	-166.76	132.86	136.74	282.44	267.31	15.14	18.658	
2,200.00	2,101.97	2,261.37	2,221.00	11.65	9.09	-165.89	158.56	172.94	299.80	283.75	16.05	18.680	
2,300.00	2,183.88	2,370.51	2,318.83	12.74	9.87	-164.97	186.57	212.39	317.12	300.10	17.02	18.636	
2,400.00	2,263.74	2,480.24	2,415.25	13.90	10.73	-164.01	216.89	255.09	334.39	316.34	18.05	18.528	
2,431.61	2,288.54	2,515.04	2,445.40	14.29	11.02	-163.70	226.95	269.25	339.83	321.44	18.39	18.481	
2,500.00	2,341.97	2,582.80	2,503.86	15.13	11.60	-163.16	246.80	297.20	351.54	332.36	19.18	18.328	
2,600.00	2,420.08	2,681.22	2,588.75	16.37	12.46	-162.43	275.62	337.79	368.71	348.33	20.38	18.096	
2,700.00	2,498.20	2,779.63	2,673.65	17.63	13.33	-161.77	304.44	378.38	385.92	364.32	21.60	17.863	
2,800.00	2,576.32	2,878.05	2,758.54	18.89	14.23	-161.17	333.26	418.96	403.18	380.32	22.87	17.633	
2,900.00	2,654.43	2,976.46	2,843.44	20.17	15.13	-160.62	362.08	459.55	420.49	396.33	24.15	17.409	
3,000.00	2,732.55	3,074.87	2,928.33	21.45	16.05	-160.11	390.91	500.14	437.82	412.36	25.47	17.192	
3,100.00	2,810.67	3,173.29	3,013.23	22.74	16.97	-159.64	419.73	540.73	455.19	428.39	26.80	16.984	
3,200.00	2,888.78	3,271.70	3,098.13	24.03	17.90	-159.20	448.55	581.31	472.59	444.43	28.16	16.785	
3,300.00	2,966.90	3,370.12	3,183.02	25.33	18.84	-158.80	477.37	621.90	490.01	460.48	29.53	16.595	
3,400.00	3,045.02	3,468.53	3,267.92	26.63	19.78	-158.42	506.19	662.49	507.45	476.53	30.91	16.415	
3,500.00	3,123.13	3,566.94	3,352.81	27.94	20.73	-158.07	535.01	703.08	524.91	492.59	32.32	16.243	
3,600.00	3,201.25	3,665.36	3,437.71	29.24	21.68	-157.74	563.83	743.67	542.39	508.66	33.73	16.080	
3,700.00	3,279.37	3,763.77	3,522.60	30.55	22.64	-157.43	592.66	784.25	559.89	524.73	35.16	15.926	
3,800.00	3,357.49	3,862.19	3,607.50	31.86	23.60	-157.14	621.48	824.84	577.40	540.81	36.59	15.780	
3,900.00	3,435.60	3,960.60	3,692.40	33.18	24.56	-156.87	650.30	865.43	594.92	556.89	38.04	15.641	
4,000.00	3,513.72	4,059.01	3,777.29	34.49	25.53	-156.61	679.12	906.02	612.46	572.97	39.49	15.509	
4,100.00	3,591.84	4,157.43	3,862.19	35.81	26.49	-156.37	707.94	946.60	630.01	589.06	40.95	15.384	
4,200.00	3,669.95	4,255.84	3,947.08	37.12	27.46	-156.14	736.76	987.19	647.57	605.15	42.42	15.265	
4,300.00	3,748.07	4,354.26	4,031.98	38.44	28.43	-155.92	765.58	1,027.78	665.14	621.24	43.90	15.152	
4,400.00	3,826.19	4,452.67	4,116.87	39.76	29.40	-155.71	794.41	1,068.37	682.71	637.34	45.38	15.045	
4,500.00	3,904.30	4,551.08	4,201.77	41.08	30.38	-155.51	823.23	1,108.96	700.30	653.43	46.87	14.943	
4,600.00	3,982.42	4,649.50	4,286.66	42.40	31.35	-155.33	852.05	1,149.54	717.89	669.53	48.36	14.845	
4,700.00	4,060.54	4,747.91	4,371.56	43.72	32.33	-155.15	880.87	1,190.13	735.49	685.64	49.86	14.753	
4,800.00	4,138.66	4,846.32	4,456.46	45.05	33.30	-154.98	909.69	1,230.72	753.10	701.74	51.36	14.664	
4,900.00	4,216.77	4,944.74	4,541.35	46.37	34.28	-154.82	938.51	1,271.31	770.71	717.85	52.86	14.580	
5,000.00	4,294.89	5,043.15	4,626.25	47.69	35.26	-154.66	967.33	1,311.89	788.33	733.96	54.37	14.499	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,141.57	4,711.14	49.02	36.24	-154.52	996.16	1,352.48	805.96	750.07	55.88	14.422		
5,200.00	4,451.12	5,239.98	4,796.04	50.34	37.22	-154.38	1,024.98	1,393.07	823.58	766.18	57.40	14.348		
5,300.00	4,529.24	5,338.39	4,880.93	51.67	38.20	-154.24	1,053.80	1,433.66	841.22	782.30	58.92	14.278		
5,400.00	4,607.36	5,436.81	4,965.83	52.99	39.18	-154.11	1,082.62	1,474.25	858.86	798.41	60.44	14.210		
5,500.00	4,685.47	5,535.22	5,050.73	54.32	40.16	-153.99	1,111.44	1,514.83	876.50	814.53	61.97	14.145		
5,600.00	4,763.59	5,633.64	5,135.62	55.64	41.14	-153.87	1,140.26	1,555.42	894.14	830.65	63.49	14.083		
5,700.00	4,841.71	5,732.05	5,220.52	56.97	42.13	-153.75	1,169.09	1,596.01	911.79	846.77	65.02	14.023		
5,800.00	4,919.83	5,830.46	5,305.41	58.30	43.11	-153.64	1,197.91	1,636.60	929.45	862.89	66.55	13.965		
5,900.00	4,997.94	5,928.88	5,390.31	59.62	44.10	-153.53	1,226.73	1,677.18	947.10	879.01	68.09	13.910		
6,000.00	5,076.06	6,027.29	5,475.20	60.95	45.08	-153.43	1,255.55	1,717.77	964.76	895.14	69.62	13.857		
6,100.00	5,154.18	6,125.71	5,560.10	62.28	46.06	-153.33	1,284.37	1,758.36	982.42	911.26	71.16	13.806		
6,200.00	5,232.29	6,224.12	5,644.99	63.61	47.05	-153.24	1,313.19	1,798.95	1,000.09	927.39	72.70	13.757		
6,300.00	5,310.41	6,322.53	5,729.89	64.93	48.04	-153.14	1,342.01	1,839.53	1,017.76	943.52	74.24	13.709		
6,400.00	5,388.53	6,420.95	5,814.79	66.26	49.02	-153.05	1,370.84	1,880.12	1,035.43	959.64	75.78	13.663		
6,500.00	5,466.64	6,519.36	5,899.68	67.59	50.01	-152.97	1,399.66	1,920.71	1,053.10	975.77	77.33	13.619		
6,600.00	5,544.76	6,617.78	5,984.58	68.92	50.99	-152.89	1,428.48	1,961.30	1,070.77	991.90	78.87	13.576		
6,700.00	5,622.88	6,716.19	6,069.47	70.25	51.98	-152.80	1,457.30	2,001.89	1,088.45	1,008.03	80.42	13.535		
6,800.00	5,701.00	6,814.60	6,154.37	71.58	52.97	-152.73	1,486.12	2,042.47	1,106.13	1,024.16	81.97	13.495		
6,900.00	5,779.11	6,913.02	6,239.26	72.91	53.96	-152.65	1,514.94	2,083.06	1,123.81	1,040.29	83.51	13.457		
7,000.00	5,857.23	7,011.43	6,324.16	74.23	54.94	-152.58	1,543.76	2,123.65	1,141.49	1,056.43	85.06	13.419		
7,100.00	5,935.35	7,109.85	6,409.06	75.56	55.93	-152.51	1,572.59	2,164.24	1,159.17	1,072.56	86.62	13.383		
7,200.00	6,013.46	7,208.26	6,493.95	76.89	56.92	-152.44	1,601.41	2,204.82	1,176.86	1,088.69	88.17	13.348		
7,300.00	6,091.58	7,306.67	6,578.85	78.22	57.91	-152.37	1,630.23	2,245.41	1,194.55	1,104.83	89.72	13.314		
7,400.00	6,169.70	7,405.09	6,663.74	79.55	58.90	-152.31	1,659.05	2,286.00	1,212.24	1,120.96	91.27	13.281		
7,500.00	6,247.81	7,503.50	6,748.64	80.88	59.88	-152.24	1,687.87	2,326.59	1,229.93	1,137.10	92.83	13.249		
7,600.00	6,325.93	7,601.92	6,833.53	82.21	60.87	-152.18	1,716.69	2,367.18	1,247.62	1,153.23	94.39	13.218		
7,700.00	6,404.05	7,700.33	6,918.43	83.54	61.86	-152.12	1,745.51	2,407.76	1,265.31	1,169.37	95.94	13.188		
7,800.00	6,482.17	7,801.26	7,003.32	84.87	62.88	-152.07	1,774.34	2,448.35	1,283.01	1,185.49	97.52	13.157		
7,900.00	6,560.28	7,897.16	7,088.22	86.20	63.84	-152.01	1,803.16	2,488.94	1,300.70	1,201.64	99.06	13.131		
8,000.00	6,638.40	7,995.57	7,173.12	87.53	64.83	-151.95	1,831.98	2,529.53	1,318.40	1,217.78	100.62	13.103		
8,100.00	6,716.52	8,111.89	7,274.84	88.86	65.95	-152.16	1,860.03	2,578.14	1,335.65	1,233.69	101.96	13.100		
8,200.00	6,794.63	8,230.72	7,381.78	90.20	66.89	-153.35	1,865.51	2,629.16	1,351.33	1,249.65	101.68	13.290		
8,300.00	6,872.75	8,335.11	7,474.86	91.53	67.49	-155.19	1,850.09	2,673.50	1,366.50	1,266.35	100.16	13.643		
8,400.00	6,950.87	8,422.04	7,549.41	92.86	67.82	-157.22	1,823.14	2,708.97	1,382.78	1,284.65	98.13	14.091		
8,500.00	7,028.98	8,492.49	7,606.59	94.19	67.98	-159.17	1,792.34	2,736.14	1,401.63	1,305.55	96.07	14.589		
8,600.00	7,107.10	8,549.14	7,649.84	95.52	68.05	-160.89	1,762.08	2,756.66	1,424.14	1,329.99	94.14	15.128		
8,647.91	7,144.53	8,572.25	7,666.67	96.16	68.06	-161.64	1,748.40	2,764.64	1,436.43	1,343.16	93.26	15.402		
8,650.00	7,146.16	8,573.21	7,667.35	96.18	68.06	-161.97	1,747.82	2,764.97	1,436.99	1,343.76	93.22	15.414		
8,700.00	7,185.66	8,596.24	7,683.60	96.84	68.06	-170.32	1,733.42	2,772.66	1,450.87	1,358.49	92.38	15.705		
8,750.00	7,225.78	8,619.48	7,699.45	97.47	68.05	-179.16	1,718.18	2,780.17	1,465.56	1,373.92	91.63	15.994		
8,800.00	7,266.21	8,642.89	7,714.84	98.08	68.04	171.73	1,702.11	2,787.46	1,480.83	1,389.85	90.97	16.278		
8,850.00	7,306.63	8,666.46	7,729.72	98.64	68.01	162.63	1,685.25	2,794.50	1,496.47	1,406.08	90.39	16.555		
8,900.00	7,346.75	8,690.17	7,744.05	99.17	67.98	153.80	1,667.62	2,801.27	1,512.28	1,422.39	89.89	16.823		
8,950.00	7,386.25	8,714.00	7,757.77	99.64	67.94	145.47	1,649.25	2,807.76	1,528.07	1,438.61	89.46	17.080		
9,000.00	7,424.84	8,737.93	7,770.85	100.06	67.89	137.79	1,630.18	2,813.93	1,543.65	1,454.54	89.11	17.324		
9,050.00	7,462.22	8,761.97	7,783.25	100.42	67.84	130.84	1,610.44	2,819.78	1,558.84	1,470.02	88.82	17.550		
9,100.00	7,498.11	8,786.09	7,794.94	100.74	67.78	124.64	1,590.08	2,825.28	1,573.50	1,484.89	88.61	17.758		
9,150.00	7,532.24	8,810.29	7,805.87	100.99	67.71	119.17	1,569.11	2,830.43	1,587.46	1,498.99	88.47	17.944		
9,200.00	7,564.34	8,834.56	7,816.03	101.19	67.64	114.38	1,547.59	2,835.20	1,600.60	1,512.19	88.41	18.105		
9,250.00	7,594.17	8,850.00	7,822.06	101.34	67.59	110.33	1,533.66	2,838.03	1,612.83	1,524.06	88.77	18.169		
9,300.00	7,621.50	8,883.28	7,833.89	101.45	67.47	106.67	1,503.06	2,843.57	1,623.91	1,535.38	88.53	18.344		
9,350.00	7,646.13	8,900.00	7,839.23	101.50	67.41	103.71	1,487.41	2,846.06	1,633.91	1,544.88	89.03	18.352		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,932.20	7,848.33	101.51	67.29	101.12	1,456.82	2,850.30	1,642.60	1,553.61	88.99	18.459		
9,450.00	7,686.55	8,950.00	7,852.69	101.48	67.22	99.08	1,439.68	2,852.32	1,650.03	1,560.39	89.64	18.406		
9,500.00	7,702.04	8,981.26	7,859.18	101.42	67.08	97.41	1,409.25	2,855.31	1,656.03	1,566.23	89.80	18.442		
9,550.00	7,714.20	9,000.00	7,862.35	101.33	67.00	96.18	1,390.84	2,856.76	1,660.66	1,570.05	90.61	18.328		
9,600.00	7,722.96	9,030.42	7,866.34	101.20	66.87	95.32	1,360.74	2,858.56	1,663.78	1,572.83	90.95	18.293		
9,650.00	7,728.24	9,050.00	7,868.14	101.06	66.78	94.85	1,341.26	2,859.35	1,665.45	1,573.55	91.90	18.123		
9,699.97	7,730.00	9,079.62	7,869.71	100.90	66.64	94.74	1,311.70	2,860.01	1,665.60	1,573.18	92.42	18.023		
9,800.00	7,730.00	9,160.04	7,870.00	100.56	66.27	94.75	1,231.28	2,859.87	1,665.37	1,572.94	92.43	18.017		
9,804.90	7,730.00	9,164.93	7,870.00	100.54	66.25	94.75	1,226.39	2,859.85	1,665.37	1,572.98	92.39	18.026		
9,900.00	7,730.00	9,260.04	7,870.00	100.24	65.82	94.75	1,131.28	2,859.53	1,665.37	1,573.82	91.55	18.191		
10,000.00	7,730.00	9,360.04	7,870.00	99.93	65.40	94.75	1,031.28	2,859.19	1,665.37	1,574.57	90.79	18.342		
10,100.00	7,730.00	9,460.04	7,870.00	99.64	65.00	94.75	931.28	2,858.86	1,665.37	1,575.20	90.17	18.469		
10,200.00	7,730.00	9,560.04	7,870.00	99.36	64.62	94.75	831.28	2,858.52	1,665.37	1,575.68	89.68	18.570		
10,300.00	7,730.00	9,660.04	7,870.00	99.09	64.26	94.75	731.28	2,858.18	1,665.36	1,576.04	89.33	18.643		
10,400.00	7,730.00	9,760.04	7,870.00	98.84	63.93	94.75	631.29	2,857.84	1,665.36	1,576.25	89.12	18.687		
10,500.00	7,730.00	9,860.04	7,870.00	98.61	63.62	94.75	531.29	2,857.51	1,665.36	1,576.32	89.04	18.703		
10,600.00	7,730.00	9,960.04	7,870.00	98.39	63.32	94.75	431.29	2,857.17	1,665.36	1,576.25	89.11	18.689		
10,700.00	7,730.00	10,060.04	7,870.00	98.18	63.06	94.75	331.29	2,856.83	1,665.36	1,576.04	89.32	18.645		
10,800.00	7,730.00	10,160.04	7,870.00	97.99	62.81	94.75	231.29	2,856.49	1,665.36	1,575.70	89.66	18.574		
10,900.00	7,730.00	10,260.04	7,870.00	97.81	62.58	94.75	131.29	2,856.15	1,665.36	1,575.21	90.15	18.474		
11,000.00	7,730.00	10,360.04	7,870.00	97.64	62.38	94.75	31.29	2,855.82	1,665.36	1,574.60	90.76	18.348		
11,100.00	7,730.00	10,460.04	7,870.00	97.50	62.21	94.75	-68.71	2,855.48	1,665.36	1,573.85	91.51	18.198		
11,200.00	7,730.00	10,560.04	7,870.00	97.36	62.06	94.75	-168.71	2,855.14	1,665.36	1,572.97	92.39	18.025		
11,300.00	7,730.00	10,660.04	7,870.00	97.24	61.94	94.75	-268.71	2,854.80	1,665.36	1,571.96	93.39	17.832		
11,400.00	7,730.00	10,760.04	7,870.00	97.14	61.85	94.75	-368.71	2,854.46	1,665.36	1,570.84	94.52	17.620		
11,500.00	7,730.00	10,860.04	7,870.00	97.06	61.79	94.75	-468.71	2,854.13	1,665.36	1,569.60	95.76	17.391		
11,600.00	7,730.00	10,960.04	7,870.00	96.98	61.77	94.75	-568.71	2,853.79	1,665.35	1,568.24	97.11	17.149		
11,700.00	7,730.00	11,060.04	7,870.00	96.93	61.79	94.75	-668.71	2,853.45	1,665.35	1,566.78	98.57	16.895		
11,800.00	7,730.00	11,160.04	7,870.00	96.90	61.85	94.75	-768.71	2,853.11	1,665.35	1,565.22	100.14	16.631		
11,900.00	7,730.00	11,260.04	7,870.00	96.88	61.97	94.75	-868.71	2,852.77	1,665.35	1,563.55	101.80	16.360		
12,000.00	7,730.00	11,360.04	7,870.00	96.88	62.14	94.75	-968.71	2,852.44	1,665.35	1,561.80	103.55	16.082		
12,100.00	7,730.00	11,460.04	7,870.00	96.90	62.38	94.75	-1,068.70	2,852.10	1,665.35	1,559.95	105.40	15.801		
12,200.00	7,730.00	11,560.04	7,870.00	96.94	62.69	94.75	-1,168.70	2,851.76	1,665.35	1,558.03	107.32	15.517		
12,300.00	7,730.00	11,660.04	7,870.00	97.00	63.08	94.75	-1,268.70	2,851.42	1,665.35	1,556.02	109.33	15.232		
12,400.00	7,730.00	11,760.04	7,870.00	97.08	63.54	94.75	-1,368.70	2,851.08	1,665.35	1,553.94	111.41	14.948		
12,500.00	7,730.00	11,860.04	7,870.00	97.18	64.10	94.75	-1,468.70	2,850.75	1,665.35	1,551.78	113.57	14.664		
12,600.00	7,730.00	11,960.04	7,870.00	97.31	64.73	94.75	-1,568.70	2,850.41	1,665.35	1,549.56	115.79	14.383		
12,700.00	7,730.00	12,060.04	7,870.00	97.46	65.46	94.75	-1,668.70	2,850.07	1,665.35	1,547.28	118.07	14.105		
12,800.00	7,730.00	12,160.04	7,870.00	97.64	66.26	94.75	-1,768.70	2,849.73	1,665.34	1,544.93	120.41	13.830		
12,900.00	7,730.00	12,260.04	7,870.00	97.85	67.14	94.75	-1,868.70	2,849.39	1,665.34	1,542.53	122.81	13.560		
13,000.00	7,730.00	12,360.04	7,870.00	98.09	68.09	94.75	-1,968.70	2,849.06	1,665.34	1,540.08	125.27	13.294		
13,100.00	7,730.00	12,460.04	7,870.00	98.35	69.10	94.75	-2,068.70	2,848.72	1,665.34	1,537.57	127.77	13.034		
13,200.00	7,730.00	12,560.04	7,870.00	98.65	70.17	94.75	-2,168.70	2,848.38	1,665.34	1,535.02	130.32	12.779		
13,300.00	7,730.00	12,660.04	7,870.00	98.98	71.29	94.75	-2,268.70	2,848.04	1,665.34	1,532.43	132.91	12.530		
13,400.00	7,730.00	12,760.04	7,870.00	99.34	72.45	94.75	-2,368.70	2,847.71	1,665.34	1,529.79	135.55	12.286		
13,500.00	7,730.00	12,860.04	7,870.00	99.74	73.65	94.75	-2,468.70	2,847.37	1,665.34	1,527.11	138.23	12.048		
13,600.00	7,730.00	12,960.04	7,870.00	100.17	74.89	94.75	-2,568.70	2,847.03	1,665.34	1,524.40	140.94	11.816		
13,700.00	7,730.00	13,060.04	7,870.00	100.65	76.16	94.75	-2,668.70	2,846.69	1,665.34	1,521.65	143.69	11.590		
13,800.00	7,730.00	13,160.04	7,870.00	101.16	77.45	94.75	-2,768.70	2,846.35	1,665.34	1,518.87	146.47	11.370		
13,900.00	7,730.00	13,260.04	7,870.00	101.71	78.78	94.75	-2,868.69	2,846.02	1,665.34	1,516.05	149.28	11.156		
14,000.00	7,730.00	13,360.04	7,870.00	102.30	80.12	94.75	-2,968.69	2,845.68	1,665.33	1,513.21	152.12	10.947		
14,100.00	7,730.00	13,460.04	7,870.00	102.93	81.49	94.75	-3,068.69	2,845.34	1,665.33	1,510.34	155.00	10.744		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,560.04	7,870.00	103.60	82.87	94.75	-3,168.69	2,845.00	1,665.33	1,507.44	157.89	10.547		
14,300.00	7,730.00	13,660.04	7,870.00	104.32	84.28	94.75	-3,268.69	2,844.66	1,665.33	1,504.52	160.81	10.356		
14,400.00	7,730.00	13,760.04	7,870.00	105.07	85.70	94.75	-3,368.69	2,844.33	1,665.33	1,501.57	163.76	10.169		
14,500.00	7,730.00	13,860.04	7,870.00	105.86	87.13	94.75	-3,468.69	2,843.99	1,665.33	1,498.60	166.73	9.988		
14,600.00	7,730.00	13,960.04	7,870.00	106.70	88.58	94.75	-3,568.69	2,843.65	1,665.33	1,495.61	169.72	9.812		
14,700.00	7,730.00	14,060.04	7,870.00	107.57	90.04	94.75	-3,668.69	2,843.31	1,665.33	1,492.60	172.73	9.641		
14,800.00	7,730.00	14,160.04	7,870.00	108.48	91.51	94.75	-3,768.69	2,842.97	1,665.33	1,489.57	175.76	9.475		
14,900.00	7,730.00	14,260.04	7,870.00	109.43	92.99	94.75	-3,868.69	2,842.64	1,665.33	1,486.52	178.80	9.314		
15,000.00	7,730.00	14,360.04	7,870.00	110.42	94.49	94.75	-3,968.69	2,842.30	1,665.33	1,483.46	181.87	9.157		
15,100.00	7,730.00	14,460.04	7,870.00	111.43	95.99	94.75	-4,068.69	2,841.96	1,665.33	1,480.38	184.95	9.004		
15,200.00	7,730.00	14,560.04	7,870.00	112.49	97.51	94.75	-4,168.69	2,841.62	1,665.33	1,477.28	188.04	8.856		
15,300.00	7,730.00	14,660.04	7,870.00	113.57	99.03	94.75	-4,268.69	2,841.28	1,665.32	1,474.17	191.15	8.712		
15,400.00	7,730.00	14,760.04	7,870.00	114.68	100.56	94.75	-4,368.69	2,840.95	1,665.32	1,471.04	194.28	8.572		
15,500.00	7,730.00	14,860.04	7,870.00	115.82	102.10	94.75	-4,468.69	2,840.61	1,665.32	1,467.91	197.42	8.436		
15,600.00	7,730.00	14,960.04	7,870.00	116.99	103.64	94.75	-4,568.68	2,840.27	1,665.32	1,464.75	200.57	8.303		
15,700.00	7,730.00	15,060.04	7,870.00	118.19	105.19	94.75	-4,668.68	2,839.93	1,665.32	1,461.59	203.73	8.174		
15,800.00	7,730.00	15,160.04	7,870.00	119.41	106.75	94.75	-4,768.68	2,839.60	1,665.32	1,458.41	206.91	8.049		
15,900.00	7,730.00	15,260.04	7,870.00	120.65	108.32	94.75	-4,868.68	2,839.26	1,665.32	1,455.23	210.09	7.927		
16,000.00	7,730.00	15,360.04	7,870.00	121.91	109.89	94.75	-4,968.68	2,838.92	1,665.32	1,452.03	213.29	7.808		
16,100.00	7,730.00	15,460.04	7,870.00	123.20	111.47	94.75	-5,068.68	2,838.58	1,665.32	1,448.82	216.50	7.692		
16,200.00	7,730.00	15,560.04	7,870.00	124.50	113.05	94.75	-5,168.68	2,838.24	1,665.32	1,445.60	219.71	7.579		
16,300.00	7,730.00	15,660.04	7,870.00	125.82	114.64	94.75	-5,268.68	2,837.91	1,665.32	1,442.38	222.94	7.470		
16,400.00	7,730.00	15,760.04	7,870.00	127.16	116.23	94.75	-5,368.68	2,837.57	1,665.32	1,439.14	226.18	7.363		
16,500.00	7,730.00	15,860.04	7,870.00	128.52	117.83	94.75	-5,468.68	2,837.23	1,665.31	1,435.90	229.42	7.259		
16,600.00	7,730.00	15,960.04	7,870.00	129.89	119.43	94.75	-5,568.68	2,836.89	1,665.31	1,432.64	232.67	7.157		
16,700.00	7,730.00	16,060.04	7,870.00	131.27	121.04	94.75	-5,668.68	2,836.55	1,665.31	1,429.38	235.93	7.058		
16,800.00	7,730.00	16,160.04	7,870.00	132.67	122.65	94.75	-5,768.68	2,836.22	1,665.31	1,426.11	239.20	6.962		
16,900.00	7,730.00	16,260.04	7,870.00	134.09	124.27	94.75	-5,868.68	2,835.88	1,665.31	1,422.84	242.47	6.868		
17,000.00	7,730.00	16,360.04	7,870.00	135.51	125.89	94.75	-5,968.68	2,835.54	1,665.31	1,419.56	245.75	6.776		
17,100.00	7,730.00	16,460.04	7,870.00	136.95	127.51	94.75	-6,068.68	2,835.20	1,665.31	1,416.27	249.04	6.687		
17,200.00	7,730.00	16,560.04	7,870.00	138.40	129.13	94.75	-6,168.68	2,834.86	1,665.31	1,412.97	252.34	6.600		
17,300.00	7,730.00	16,660.04	7,870.00	139.85	130.76	94.75	-6,268.68	2,834.53	1,665.31	1,409.67	255.64	6.514		
17,400.00	7,730.00	16,760.04	7,870.00	141.32	132.40	94.75	-6,368.67	2,834.19	1,665.31	1,406.36	258.94	6.431		
17,500.00	7,730.00	16,860.04	7,870.00	142.80	134.03	94.75	-6,468.67	2,833.85	1,665.31	1,403.05	262.25	6.350		
17,600.00	7,730.00	16,960.04	7,870.00	144.28	135.67	94.75	-6,568.67	2,833.51	1,665.31	1,399.73	265.57	6.271		
17,700.00	7,730.00	17,060.04	7,870.00	145.78	137.32	94.75	-6,668.67	2,833.17	1,665.30	1,396.41	268.89	6.193		
17,800.00	7,730.00	17,160.04	7,870.00	147.28	138.96	94.75	-6,768.67	2,832.84	1,665.30	1,393.08	272.22	6.117		
17,900.00	7,730.00	17,260.04	7,870.00	148.79	140.61	94.75	-6,868.67	2,832.50	1,665.30	1,389.75	275.56	6.043		
18,000.00	7,730.00	17,360.04	7,870.00	150.31	142.26	94.75	-6,968.67	2,832.16	1,665.30	1,386.41	278.89	5.971		
18,100.00	7,730.00	17,460.04	7,870.00	151.83	143.92	94.75	-7,068.67	2,831.82	1,665.30	1,383.07	282.23	5.900		
18,200.00	7,730.00	17,560.04	7,870.00	153.37	145.57	94.75	-7,168.67	2,831.49	1,665.30	1,379.72	285.58	5.831		
18,300.00	7,730.00	17,660.04	7,870.00	154.90	147.23	94.75	-7,268.67	2,831.15	1,665.30	1,376.37	288.93	5.764		
18,400.00	7,730.00	17,760.04	7,870.00	156.45	148.89	94.75	-7,368.67	2,830.81	1,665.30	1,373.01	292.29	5.697		
18,500.00	7,730.00	17,860.04	7,870.00	158.00	150.55	94.75	-7,468.67	2,830.47	1,665.30	1,369.65	295.65	5.633		
18,600.00	7,730.00	17,960.04	7,870.00	159.55	152.22	94.75	-7,568.67	2,830.13	1,665.30	1,366.29	299.01	5.569		
18,700.00	7,730.00	18,060.04	7,870.00	161.11	153.89	94.75	-7,668.67	2,829.80	1,665.30	1,362.92	302.37	5.507		
18,800.00	7,730.00	18,160.04	7,870.00	162.68	155.56	94.75	-7,768.67	2,829.46	1,665.30	1,359.55	305.74	5.447		
18,900.00	7,730.00	18,260.04	7,870.00	164.25	157.23	94.75	-7,868.67	2,829.12	1,665.30	1,356.18	309.12	5.387		
19,000.00	7,730.00	18,360.04	7,870.00	165.83	158.90	94.75	-7,968.67	2,828.78	1,665.29	1,352.80	312.49	5.329		
19,100.00	7,730.00	18,460.04	7,870.00	167.41	160.58	94.75	-8,068.67	2,828.44	1,665.29	1,349.42	315.87	5.272		
19,200.00	7,730.00	18,560.04	7,870.00	168.99	162.25	94.75	-8,168.66	2,828.11	1,665.29	1,346.04	319.26	5.216		
19,300.00	7,730.00	18,660.04	7,870.00	170.58	163.93	94.75	-8,268.66	2,827.77	1,665.29	1,342.65	322.64	5.161		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,760.04	7,870.00	172.17	165.61	94.75	-8,368.66	2,827.43	1,665.29	1,339.26	326.03	5.108	
19,430.54	7,730.00	18,790.57	7,870.00	172.66	166.13	94.75	-8,399.20	2,827.33	1,665.29	1,338.22	327.07	5.092 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	2.00	0.00	0.00	-89.48	0.36	-40.04	40.04				
100.00	100.00	102.00	102.00	0.13	0.14	-89.48	0.36	-40.04	40.04	39.77	0.28	145.068	
200.00	200.00	202.00	202.00	0.49	0.50	-89.48	0.36	-40.04	40.04	39.05	0.99	40.326	
300.00	300.00	302.00	302.00	0.85	0.86	-89.48	0.36	-40.04	40.04	38.33	1.71	23.418	
400.00	400.00	402.00	402.00	1.21	1.22	-89.48	0.36	-40.04	40.04	37.62	2.43	16.500	
500.00	500.00	502.00	502.00	1.57	1.58	-89.48	0.36	-40.04	40.04	36.90	3.14	12.737	CC, ES
600.00	599.98	601.98	601.98	1.92	1.93	-155.84	0.36	-40.04	41.63	37.77	3.86	10.795	
700.00	699.84	701.84	701.84	2.28	2.29	-158.45	0.36	-40.04	46.45	41.88	4.57	10.169	
800.00	799.45	801.45	801.45	2.64	2.65	-161.75	0.36	-40.04	54.65	49.37	5.28	10.346	
900.00	898.70	900.72	900.72	3.02	3.00	-164.99	0.36	-40.04	66.34	60.34	6.00	11.059	
1,000.00	997.47	1,002.15	1,002.13	3.41	3.36	-167.38	1.35	-38.51	79.90	73.18	6.72	11.896	
1,100.00	1,095.62	1,104.09	1,103.91	3.84	3.73	-168.77	4.30	-33.93	93.62	86.19	7.43	12.598	
1,200.00	1,193.06	1,206.52	1,205.94	4.29	4.09	-169.52	9.24	-26.27	107.44	99.29	8.15	13.184	
1,300.00	1,289.64	1,309.46	1,308.06	4.78	4.47	-169.85	16.19	-15.49	121.30	112.43	8.87	13.674	
1,400.00	1,385.27	1,412.89	1,410.15	5.32	4.87	-169.88	25.18	-1.56	135.17	125.57	9.60	14.081	
1,500.00	1,479.82	1,516.82	1,512.07	5.90	5.30	-169.69	36.21	15.56	149.04	138.71	10.33	14.424	
1,600.00	1,573.17	1,621.25	1,613.66	6.53	5.75	-169.34	49.30	35.87	162.90	151.82	11.08	14.701	
1,700.00	1,665.21	1,726.18	1,714.77	7.23	6.24	-168.86	64.47	59.39	176.72	164.88	11.84	14.922	
1,800.00	1,755.84	1,831.60	1,815.26	7.98	6.78	-168.28	81.72	86.15	190.51	177.88	12.62	15.091	
1,900.00	1,844.94	1,937.50	1,914.97	8.80	7.37	-167.61	101.05	116.14	204.25	190.82	13.43	15.207	
2,000.00	1,932.39	2,043.89	2,013.73	9.68	8.01	-166.88	122.47	149.37	217.94	203.67	14.27	15.274	
2,100.00	2,018.11	2,150.75	2,111.39	10.63	8.73	-166.08	145.97	185.82	231.57	216.43	15.15	15.290	
2,200.00	2,101.97	2,258.09	2,207.79	11.65	9.51	-165.24	171.55	225.49	245.15	229.08	16.07	15.255	
2,300.00	2,183.88	2,365.89	2,302.75	12.74	10.36	-164.36	199.18	268.36	258.66	241.61	17.05	15.171	
2,400.00	2,263.74	2,474.15	2,396.12	13.90	11.30	-163.43	228.87	314.40	272.09	254.00	18.10	15.036	
2,431.61	2,288.54	2,508.45	2,425.27	14.29	11.60	-163.13	238.67	329.60	276.33	257.88	18.44	14.984	
2,500.00	2,341.97	2,580.76	2,486.03	15.13	12.28	-162.50	259.91	362.55	284.77	265.53	19.24	14.803	
2,600.00	2,420.08	2,679.96	2,569.06	16.37	13.25	-161.65	289.32	408.17	296.63	276.12	20.51	14.466	
2,700.00	2,498.20	2,779.16	2,652.09	17.63	14.24	-160.86	318.74	453.80	308.54	286.73	21.81	14.144	
2,800.00	2,576.32	2,878.37	2,735.12	18.89	15.24	-160.13	348.15	499.43	320.51	297.35	23.16	13.837	
2,900.00	2,654.43	2,977.57	2,818.14	20.17	16.25	-159.46	377.57	545.06	332.53	307.99	24.55	13.548	
3,000.00	2,732.55	3,076.77	2,901.17	21.45	17.27	-158.83	406.99	590.68	344.59	318.63	25.96	13.275	
3,100.00	2,810.67	3,175.97	2,984.20	22.74	18.31	-158.24	436.40	636.31	356.69	329.29	27.40	13.018	
3,200.00	2,888.78	3,275.17	3,067.23	24.03	19.35	-157.69	465.82	681.94	368.82	339.96	28.87	12.777	
3,300.00	2,966.90	3,374.37	3,150.26	25.33	20.40	-157.18	495.23	727.57	380.99	350.63	30.36	12.551	
3,400.00	3,045.02	3,473.57	3,233.29	26.63	21.45	-156.70	524.65	773.19	393.18	361.32	31.86	12.339	
3,500.00	3,123.13	3,572.77	3,316.32	27.94	22.51	-156.24	554.06	818.82	405.40	372.01	33.39	12.141	
3,600.00	3,201.25	3,671.98	3,399.35	29.24	23.57	-155.82	583.48	864.45	417.64	382.71	34.94	11.955	
3,700.00	3,279.37	3,771.18	3,482.38	30.55	24.63	-155.42	612.89	910.07	429.91	393.41	36.49	11.780	
3,800.00	3,357.49	3,870.38	3,565.40	31.86	25.70	-155.04	642.31	955.70	442.19	404.12	38.07	11.616	
3,900.00	3,435.60	3,969.58	3,648.43	33.18	26.77	-154.68	671.72	1,001.33	454.49	414.84	39.65	11.462	
4,000.00	3,513.72	4,068.78	3,731.46	34.49	27.84	-154.34	701.14	1,046.96	466.81	425.56	41.25	11.317	
4,100.00	3,591.84	4,167.98	3,814.49	35.81	28.92	-154.02	730.55	1,092.58	479.14	436.28	42.86	11.180	
4,200.00	3,669.95	4,267.18	3,897.52	37.12	29.99	-153.71	759.97	1,138.21	491.49	447.02	44.47	11.051	
4,300.00	3,748.07	4,366.39	3,980.55	38.44	31.07	-153.42	789.39	1,183.84	503.85	457.75	46.10	10.930	
4,400.00	3,826.19	4,465.59	4,063.58	39.76	32.15	-153.14	818.80	1,229.47	516.22	468.49	47.73	10.815	
4,500.00	3,904.30	4,564.79	4,146.61	41.08	33.23	-152.88	848.22	1,275.09	528.61	479.23	49.37	10.706	
4,600.00	3,982.42	4,663.99	4,229.64	42.40	34.31	-152.62	877.63	1,320.72	541.00	489.98	51.02	10.603	
4,700.00	4,060.54	4,763.19	4,312.66	43.72	35.40	-152.38	907.05	1,366.35	553.41	500.73	52.68	10.506	
4,800.00	4,138.66	4,862.39	4,395.69	45.05	36.48	-152.15	936.46	1,411.97	565.82	511.48	54.34	10.413	
4,900.00	4,216.77	4,961.59	4,478.72	46.37	37.57	-151.93	965.88	1,457.60	578.24	522.24	56.00	10.325	
5,000.00	4,294.89	5,060.79	4,561.75	47.69	38.65	-151.72	995.29	1,503.23	590.67	533.00	57.68	10.241	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,160.00	4,644.78	49.02	39.74	-151.52	1,024.71	1,548.86	603.11	543.76	59.35	10.162		
5,200.00	4,451.12	5,259.20	4,727.81	50.34	40.83	-151.32	1,054.12	1,594.48	615.56	554.53	61.03	10.086		
5,300.00	4,529.24	5,358.40	4,810.84	51.67	41.92	-151.14	1,083.54	1,640.11	628.01	565.29	62.72	10.013		
5,400.00	4,607.36	5,457.60	4,893.87	52.99	43.01	-150.96	1,112.96	1,685.74	640.47	576.06	64.41	9.944		
5,500.00	4,685.47	5,556.80	4,976.89	54.32	44.10	-150.79	1,142.37	1,731.37	652.93	586.83	66.10	9.878		
5,600.00	4,763.59	5,656.00	5,059.92	55.64	45.19	-150.62	1,171.79	1,776.99	665.40	597.61	67.79	9.815		
5,700.00	4,841.71	5,755.20	5,142.95	56.97	46.28	-150.46	1,201.20	1,822.62	677.88	608.39	69.49	9.755		
5,800.00	4,919.83	5,854.41	5,225.98	58.30	47.37	-150.30	1,230.62	1,868.25	690.36	619.16	71.19	9.697		
5,900.00	4,997.94	5,953.61	5,309.01	59.62	48.46	-150.16	1,260.03	1,913.87	702.84	629.94	72.90	9.641		
6,000.00	5,076.06	6,052.81	5,392.04	60.95	49.55	-150.01	1,289.45	1,959.50	715.33	640.73	74.61	9.588		
6,100.00	5,154.18	6,152.01	5,475.07	62.28	50.64	-149.87	1,318.86	2,005.13	727.83	651.51	76.32	9.537		
6,200.00	5,232.29	6,251.21	5,558.10	63.61	51.74	-149.74	1,348.28	2,050.76	740.32	662.30	78.03	9.488		
6,300.00	5,310.41	6,350.41	5,641.13	64.93	52.83	-149.61	1,377.69	2,096.38	752.83	673.08	79.74	9.441		
6,400.00	5,388.53	6,449.61	5,724.15	66.26	53.92	-149.49	1,407.11	2,142.01	765.33	683.87	81.46	9.395		
6,500.00	5,466.64	6,548.81	5,807.18	67.59	55.02	-149.36	1,436.53	2,187.64	777.84	694.66	83.18	9.351		
6,600.00	5,544.76	6,648.02	5,890.21	68.92	56.11	-149.25	1,465.94	2,233.27	790.35	705.45	84.90	9.309		
6,700.00	5,622.88	6,747.22	5,973.24	70.25	57.20	-149.13	1,495.36	2,278.89	802.87	716.24	86.62	9.269		
6,800.00	5,701.00	6,846.42	6,056.27	71.58	58.30	-149.02	1,524.77	2,324.52	815.39	727.04	88.35	9.229		
6,900.00	5,779.11	6,945.62	6,139.30	72.91	59.39	-148.92	1,554.19	2,370.15	827.91	737.83	90.07	9.191		
7,000.00	5,857.23	7,044.82	6,222.33	74.23	60.49	-148.81	1,583.60	2,415.78	840.43	748.63	91.80	9.155		
7,100.00	5,935.35	7,144.02	6,305.36	75.56	61.58	-148.71	1,613.02	2,461.40	852.96	759.43	93.53	9.120		
7,200.00	6,013.46	7,243.22	6,388.38	76.89	62.68	-148.61	1,642.43	2,507.03	865.49	770.23	95.26	9.085		
7,300.00	6,091.58	7,342.43	6,471.41	78.22	63.77	-148.52	1,671.85	2,552.66	878.02	781.03	96.99	9.052		
7,400.00	6,169.70	7,441.63	6,554.44	79.55	64.87	-148.43	1,701.26	2,598.28	890.55	791.83	98.73	9.020		
7,500.00	6,247.81	7,540.83	6,637.47	80.88	65.97	-148.34	1,730.68	2,643.91	903.09	802.63	100.46	8.989		
7,600.00	6,325.93	7,640.03	6,720.50	82.21	67.06	-148.25	1,760.10	2,689.54	915.63	813.43	102.20	8.960		
7,700.00	6,404.05	7,739.23	6,803.53	83.54	68.16	-148.16	1,789.51	2,735.17	928.17	824.23	103.93	8.930		
7,800.00	6,482.17	7,838.43	6,886.56	84.87	69.25	-148.08	1,818.93	2,780.79	940.71	835.04	105.67	8.902		
7,900.00	6,560.28	7,939.48	6,971.14	86.20	70.37	-148.00	1,848.86	2,827.27	953.25	845.82	107.43	8.873		
8,000.00	6,638.40	8,077.88	7,090.44	87.53	71.77	-148.96	1,872.12	2,892.77	963.55	855.72	107.83	8.936		
8,100.00	6,716.52	8,203.16	7,199.88	88.86	72.76	-151.44	1,864.52	2,952.75	970.83	865.36	105.47	9.205		
8,200.00	6,794.63	8,307.47	7,288.15	90.20	73.35	-154.57	1,837.62	3,001.07	977.68	875.81	101.87	9.597		
8,300.00	6,872.75	8,390.48	7,354.47	91.53	73.64	-157.68	1,803.45	3,037.31	986.92	888.70	98.22	10.048		
8,400.00	6,950.87	8,455.56	7,403.02	92.86	73.79	-160.45	1,769.23	3,063.82	1,000.76	905.80	94.96	10.539		
8,500.00	7,028.98	8,506.73	7,438.63	94.19	73.85	-162.79	1,738.06	3,083.24	1,020.61	928.54	92.08	11.084		
8,600.00	7,107.10	8,550.00	7,466.74	95.52	73.87	-164.86	1,708.96	3,098.55	1,047.19	957.87	89.32	11.724		
8,647.91	7,144.53	8,563.99	7,475.40	96.16	73.86	-165.55	1,699.05	3,103.27	1,062.36	974.15	88.21	12.044		
8,650.00	7,146.16	8,564.67	7,475.82	96.18	73.86	-165.90	1,698.56	3,103.50	1,063.06	974.90	88.16	12.059		
8,700.00	7,185.66	8,581.57	7,485.99	96.84	73.85	-174.72	1,686.25	3,109.03	1,080.39	993.44	86.95	12.425		
8,750.00	7,225.78	8,600.00	7,496.72	97.47	73.85	175.89	1,672.45	3,114.87	1,098.73	1,012.91	85.83	12.802		
8,800.00	7,266.21	8,617.49	7,506.53	98.08	73.82	166.28	1,658.99	3,120.20	1,117.79	1,032.93	84.86	13.172		
8,850.00	7,306.63	8,636.30	7,516.68	98.64	73.80	156.64	1,644.15	3,125.72	1,137.29	1,053.32	83.96	13.545		
8,900.00	7,346.75	8,650.00	7,523.80	99.17	73.79	147.49	1,633.10	3,129.58	1,156.97	1,073.62	83.35	13.881		
8,950.00	7,386.25	8,675.22	7,536.29	99.64	73.74	138.48	1,612.26	3,136.36	1,176.52	1,094.07	82.45	14.270		
9,000.00	7,424.84	8,700.00	7,547.77	100.06	73.70	130.22	1,591.21	3,142.59	1,195.79	1,114.12	81.67	14.642		
9,050.00	7,462.22	8,715.50	7,554.54	100.42	73.66	123.01	1,577.76	3,146.25	1,214.50	1,133.17	81.33	14.934		
9,100.00	7,498.11	8,736.04	7,563.02	100.74	73.61	116.47	1,559.62	3,150.84	1,232.50	1,151.57	80.93	15.230		
9,150.00	7,532.24	8,750.00	7,568.45	100.99	73.58	110.83	1,547.10	3,153.78	1,249.64	1,168.72	80.92	15.443		
9,200.00	7,564.34	8,777.75	7,578.45	101.19	73.49	105.67	1,521.79	3,159.17	1,265.65	1,185.15	80.50	15.723		
9,250.00	7,594.17	8,800.00	7,585.69	101.34	73.43	101.30	1,501.12	3,163.07	1,280.50	1,200.07	80.43	15.920		
9,300.00	7,621.50	8,820.11	7,591.62	101.45	73.36	97.58	1,482.17	3,166.26	1,294.03	1,213.41	80.62	16.051		
9,350.00	7,646.13	8,850.00	7,599.35	101.50	73.26	94.33	1,453.60	3,170.40	1,306.20	1,225.72	80.48	16.231		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,862.95	7,602.29	101.51	73.21	91.78	1,441.08	3,171.97	1,316.71	1,235.35	81.36	16.184		
9,450.00	7,686.55	8,884.51	7,606.64	101.48	73.13	89.63	1,420.10	3,174.28	1,325.69	1,243.71	81.97	16.172		
9,500.00	7,702.04	8,900.00	7,609.33	101.42	73.07	87.95	1,404.91	3,175.71	1,333.02	1,249.90	83.12	16.037		
9,550.00	7,714.20	8,927.80	7,613.26	101.33	72.96	86.63	1,377.47	3,177.77	1,338.58	1,254.89	83.69	15.994		
9,600.00	7,722.96	8,950.00	7,615.55	101.20	72.87	85.75	1,355.42	3,178.95	1,342.40	1,257.65	84.75	15.840		
9,650.00	7,728.24	8,971.24	7,617.04	101.06	72.77	85.25	1,334.24	3,179.70	1,344.45	1,258.42	86.02	15.629		
9,699.97	7,730.00	9,000.00	7,617.97	100.90	72.65	85.13	1,305.50	3,180.11	1,344.73	1,257.84	86.89	15.476		
9,724.07	7,730.00	9,013.85	7,618.00	100.81	72.59	85.14	1,306.15	3,180.13	1,344.48	1,256.18	88.30	15.226		
9,800.00	7,730.00	9,075.29	7,618.00	100.56	72.32	85.14	1,230.22	3,179.87	1,344.48	1,257.00	87.48	15.369		
9,900.00	7,730.00	9,175.29	7,618.00	100.24	71.90	85.14	1,130.22	3,179.53	1,344.48	1,258.09	86.39	15.563		
10,000.00	7,730.00	9,275.29	7,618.00	99.93	71.50	85.14	1,030.22	3,179.19	1,344.48	1,259.05	85.43	15.738		
10,100.00	7,730.00	9,375.29	7,618.00	99.64	71.13	85.14	930.22	3,178.85	1,344.48	1,259.88	84.60	15.891		
10,200.00	7,730.00	9,475.29	7,618.00	99.36	70.77	85.14	830.22	3,178.51	1,344.48	1,260.56	83.92	16.021		
10,300.00	7,730.00	9,575.29	7,618.00	99.09	70.43	85.14	730.22	3,178.17	1,344.48	1,261.10	83.38	16.124		
10,400.00	7,730.00	9,675.29	7,618.00	98.84	70.11	85.14	630.22	3,177.83	1,344.48	1,261.49	82.99	16.200		
10,500.00	7,730.00	9,775.29	7,618.00	98.61	69.82	85.14	530.22	3,177.50	1,344.49	1,261.74	82.75	16.248		
10,600.00	7,730.00	9,875.29	7,618.00	98.39	69.54	85.14	430.22	3,177.16	1,344.49	1,261.83	82.65	16.266		
10,700.00	7,730.00	9,975.29	7,618.00	98.18	69.28	85.14	330.22	3,176.82	1,344.49	1,261.78	82.71	16.255		
10,800.00	7,730.00	10,075.29	7,618.00	97.99	69.04	85.14	230.23	3,176.48	1,344.49	1,261.57	82.92	16.215		
10,900.00	7,730.00	10,175.29	7,618.00	97.81	68.83	85.14	130.23	3,176.14	1,344.49	1,261.21	83.27	16.145		
11,000.00	7,730.00	10,275.29	7,618.00	97.64	68.63	85.14	30.23	3,175.80	1,344.49	1,260.71	83.78	16.048		
11,100.00	7,730.00	10,375.29	7,618.00	97.50	68.46	85.14	-69.77	3,175.46	1,344.49	1,260.06	84.42	15.925		
11,200.00	7,730.00	10,475.29	7,618.00	97.36	68.31	85.14	-169.77	3,175.12	1,344.49	1,259.28	85.21	15.778		
11,300.00	7,730.00	10,575.29	7,618.00	97.24	68.18	85.14	-269.77	3,174.78	1,344.49	1,258.35	86.14	15.608		
11,400.00	7,730.00	10,675.29	7,618.00	97.14	68.08	85.14	-369.77	3,174.44	1,344.49	1,257.29	87.20	15.419		
11,500.00	7,730.00	10,775.29	7,618.00	97.06	68.01	85.14	-469.77	3,174.10	1,344.49	1,256.11	88.38	15.212		
11,600.00	7,730.00	10,875.29	7,618.00	96.98	67.96	85.14	-569.77	3,173.76	1,344.49	1,254.80	89.69	14.990		
11,700.00	7,730.00	10,975.29	7,618.00	96.93	67.95	85.14	-669.77	3,173.42	1,344.49	1,253.37	91.12	14.755		
11,800.00	7,730.00	11,075.29	7,618.00	96.90	67.96	85.14	-769.77	3,173.08	1,344.49	1,251.83	92.66	14.510		
11,900.00	7,730.00	11,175.29	7,618.00	96.88	68.02	85.14	-869.77	3,172.74	1,344.49	1,250.19	94.30	14.257		
12,000.00	7,730.00	11,275.29	7,618.00	96.88	68.11	85.14	-969.77	3,172.41	1,344.49	1,248.44	96.05	13.998		
12,100.00	7,730.00	11,375.29	7,618.00	96.90	68.25	85.14	-1,069.77	3,172.07	1,344.49	1,246.60	97.89	13.735		
12,200.00	7,730.00	11,475.29	7,618.00	96.94	68.44	85.14	-1,169.77	3,171.73	1,344.50	1,244.67	99.82	13.469		
12,300.00	7,730.00	11,575.29	7,618.00	97.00	68.68	85.14	-1,269.77	3,171.39	1,344.50	1,242.65	101.84	13.202		
12,400.00	7,730.00	11,675.29	7,618.00	97.08	68.98	85.14	-1,369.77	3,171.05	1,344.50	1,240.56	103.94	12.935		
12,500.00	7,730.00	11,775.29	7,618.00	97.18	69.34	85.14	-1,469.77	3,170.71	1,344.50	1,238.38	106.11	12.671		
12,600.00	7,730.00	11,875.29	7,618.00	97.31	69.76	85.14	-1,569.76	3,170.37	1,344.50	1,236.14	108.36	12.408		
12,700.00	7,730.00	11,975.29	7,618.00	97.46	70.26	85.14	-1,669.76	3,170.03	1,344.50	1,233.83	110.67	12.149		
12,800.00	7,730.00	12,075.29	7,618.00	97.64	70.82	85.14	-1,769.76	3,169.69	1,344.50	1,231.46	113.04	11.894		
12,900.00	7,730.00	12,175.29	7,618.00	97.85	71.46	85.14	-1,869.76	3,169.35	1,344.50	1,229.03	115.47	11.643		
13,000.00	7,730.00	12,275.29	7,618.00	98.09	72.17	85.14	-1,969.76	3,169.01	1,344.50	1,226.54	117.96	11.398		
13,100.00	7,730.00	12,375.29	7,618.00	98.35	72.94	85.14	-2,069.76	3,168.67	1,344.50	1,224.00	120.50	11.158		
13,200.00	7,730.00	12,475.29	7,618.00	98.65	73.79	85.14	-2,169.76	3,168.33	1,344.50	1,221.42	123.09	10.923		
13,300.00	7,730.00	12,575.29	7,618.00	98.98	74.70	85.14	-2,269.76	3,167.99	1,344.50	1,218.78	125.72	10.695		
13,400.00	7,730.00	12,675.29	7,618.00	99.34	75.67	85.14	-2,369.76	3,167.66	1,344.50	1,216.11	128.39	10.472		
13,500.00	7,730.00	12,775.29	7,618.00	99.74	76.69	85.14	-2,469.76	3,167.32	1,344.50	1,213.39	131.11	10.255		
13,600.00	7,730.00	12,875.29	7,618.00	100.17	77.76	85.14	-2,569.76	3,166.98	1,344.50	1,210.64	133.86	10.044		
13,700.00	7,730.00	12,975.29	7,618.00	100.65	78.88	85.14	-2,669.76	3,166.64	1,344.50	1,207.85	136.65	9.839		
13,800.00	7,730.00	13,075.29	7,618.00	101.16	80.04	85.14	-2,769.76	3,166.30	1,344.50	1,205.03	139.47	9.640		
13,900.00	7,730.00	13,175.29	7,618.00	101.71	81.24	85.14	-2,869.76	3,165.96	1,344.50	1,202.18	142.33	9.447		
14,000.00	7,730.00	13,275.29	7,618.00	102.30	82.47	85.14	-2,969.76	3,165.62	1,344.51	1,199.30	145.21	9.259		
14,100.00	7,730.00	13,375.29	7,618.00	102.93	83.74	85.14	-3,069.76	3,165.28	1,344.51	1,196.39	148.12	9.077		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,475.29	7,618.00	103.60	85.03	85.14	-3,169.76	3,164.94	1,344.51	1,193.45	151.05	8.901		
14,300.00	7,730.00	13,575.29	7,618.00	104.32	86.34	85.14	-3,269.75	3,164.60	1,344.51	1,190.49	154.02	8.730		
14,400.00	7,730.00	13,675.29	7,618.00	105.07	87.68	85.14	-3,369.75	3,164.26	1,344.51	1,187.51	157.00	8.564		
14,500.00	7,730.00	13,775.29	7,618.00	105.86	89.04	85.14	-3,469.75	3,163.92	1,344.51	1,184.50	160.01	8.403		
14,600.00	7,730.00	13,875.29	7,618.00	106.70	90.43	85.14	-3,569.75	3,163.58	1,344.51	1,181.48	163.03	8.247		
14,700.00	7,730.00	13,975.29	7,618.00	107.57	91.82	85.14	-3,669.75	3,163.24	1,344.51	1,178.43	166.08	8.096		
14,800.00	7,730.00	14,075.29	7,618.00	108.48	93.24	85.14	-3,769.75	3,162.91	1,344.51	1,175.37	169.14	7.949		
14,900.00	7,730.00	14,175.29	7,618.00	109.43	94.67	85.14	-3,869.75	3,162.57	1,344.51	1,172.28	172.23	7.807		
15,000.00	7,730.00	14,275.29	7,618.00	110.42	96.11	85.14	-3,969.75	3,162.23	1,344.51	1,169.19	175.33	7.669		
15,100.00	7,730.00	14,375.29	7,618.00	111.43	97.57	85.14	-4,069.75	3,161.89	1,344.51	1,166.07	178.44	7.535		
15,200.00	7,730.00	14,475.29	7,618.00	112.49	99.04	85.14	-4,169.75	3,161.55	1,344.51	1,162.94	181.57	7.405		
15,300.00	7,730.00	14,575.29	7,618.00	113.57	100.52	85.14	-4,269.75	3,161.21	1,344.51	1,159.80	184.71	7.279		
15,400.00	7,730.00	14,675.29	7,618.00	114.68	102.01	85.14	-4,369.75	3,160.87	1,344.51	1,156.64	187.87	7.157		
15,500.00	7,730.00	14,775.29	7,618.00	115.82	103.51	85.14	-4,469.75	3,160.53	1,344.51	1,153.47	191.04	7.038		
15,600.00	7,730.00	14,875.29	7,618.00	116.99	105.03	85.14	-4,569.75	3,160.19	1,344.51	1,150.29	194.23	6.922		
15,700.00	7,730.00	14,975.29	7,618.00	118.19	106.55	85.14	-4,669.75	3,159.85	1,344.52	1,147.10	197.42	6.810		
15,800.00	7,730.00	15,075.29	7,618.00	119.41	108.07	85.14	-4,769.75	3,159.51	1,344.52	1,143.89	200.62	6.702		
15,900.00	7,730.00	15,175.29	7,618.00	120.65	109.61	85.14	-4,869.75	3,159.17	1,344.52	1,140.68	203.84	6.596		
16,000.00	7,730.00	15,275.29	7,618.00	121.91	111.15	85.14	-4,969.75	3,158.83	1,344.52	1,137.45	207.07	6.493		
16,100.00	7,730.00	15,375.29	7,618.00	123.20	112.70	85.14	-5,069.74	3,158.49	1,344.52	1,134.22	210.30	6.393		
16,200.00	7,730.00	15,475.29	7,618.00	124.50	114.26	85.14	-5,169.74	3,158.15	1,344.52	1,130.97	213.55	6.296		
16,300.00	7,730.00	15,575.29	7,618.00	125.82	115.82	85.14	-5,269.74	3,157.82	1,344.52	1,127.72	216.80	6.202		
16,400.00	7,730.00	15,675.29	7,618.00	127.16	117.39	85.14	-5,369.74	3,157.48	1,344.52	1,124.46	220.06	6.110		
16,500.00	7,730.00	15,775.29	7,618.00	128.52	118.97	85.14	-5,469.74	3,157.14	1,344.52	1,121.19	223.33	6.020		
16,600.00	7,730.00	15,875.29	7,618.00	129.89	120.55	85.14	-5,569.74	3,156.80	1,344.52	1,117.91	226.61	5.933		
16,700.00	7,730.00	15,975.29	7,618.00	131.27	122.14	85.14	-5,669.74	3,156.46	1,344.52	1,114.63	229.89	5.849		
16,800.00	7,730.00	16,075.29	7,618.00	132.67	123.73	85.14	-5,769.74	3,156.12	1,344.52	1,111.34	233.18	5.766		
16,900.00	7,730.00	16,175.29	7,618.00	134.09	125.32	85.14	-5,869.74	3,155.78	1,344.52	1,108.04	236.48	5.686		
17,000.00	7,730.00	16,275.29	7,618.00	135.51	126.92	85.14	-5,969.74	3,155.44	1,344.52	1,104.74	239.79	5.607		
17,100.00	7,730.00	16,375.29	7,618.00	136.95	128.53	85.14	-6,069.74	3,155.10	1,344.52	1,101.43	243.10	5.531		
17,200.00	7,730.00	16,475.29	7,618.00	138.40	130.14	85.14	-6,169.74	3,154.76	1,344.52	1,098.11	246.41	5.456		
17,300.00	7,730.00	16,575.29	7,618.00	139.85	131.75	85.14	-6,269.74	3,154.42	1,344.52	1,094.79	249.74	5.384		
17,400.00	7,730.00	16,675.29	7,618.00	141.32	133.37	85.14	-6,369.74	3,154.08	1,344.52	1,091.46	253.06	5.313		
17,500.00	7,730.00	16,775.29	7,618.00	142.80	134.99	85.14	-6,469.74	3,153.74	1,344.53	1,088.13	256.40	5.244		
17,600.00	7,730.00	16,875.29	7,618.00	144.28	136.61	85.14	-6,569.74	3,153.40	1,344.53	1,084.79	259.73	5.177		
17,700.00	7,730.00	16,975.29	7,618.00	145.78	138.24	85.14	-6,669.74	3,153.07	1,344.53	1,081.45	263.08	5.111		
17,800.00	7,730.00	17,075.29	7,618.00	147.28	139.87	85.14	-6,769.73	3,152.73	1,344.53	1,078.10	266.42	5.047		
17,900.00	7,730.00	17,175.29	7,618.00	148.79	141.51	85.14	-6,869.73	3,152.39	1,344.53	1,074.75	269.78	4.984		
18,000.00	7,730.00	17,275.29	7,618.00	150.31	143.14	85.14	-6,969.73	3,152.05	1,344.53	1,071.40	273.13	4.923		
18,100.00	7,730.00	17,375.29	7,618.00	151.83	144.78	85.14	-7,069.73	3,151.71	1,344.53	1,068.04	276.49	4.863		
18,200.00	7,730.00	17,475.29	7,618.00	153.37	146.43	85.14	-7,169.73	3,151.37	1,344.53	1,064.67	279.86	4.804		
18,300.00	7,730.00	17,575.29	7,618.00	154.90	148.07	85.14	-7,269.73	3,151.03	1,344.53	1,061.30	283.23	4.747		
18,400.00	7,730.00	17,675.29	7,618.00	156.45	149.72	85.14	-7,369.73	3,150.69	1,344.53	1,057.93	286.60	4.691		
18,500.00	7,730.00	17,775.29	7,618.00	158.00	151.37	85.14	-7,469.73	3,150.35	1,344.53	1,054.56	289.97	4.637		
18,600.00	7,730.00	17,875.29	7,618.00	159.55	153.02	85.14	-7,569.73	3,150.01	1,344.53	1,051.18	293.35	4.583		
18,700.00	7,730.00	17,975.29	7,618.00	161.11	154.68	85.14	-7,669.73	3,149.67	1,344.53	1,047.80	296.74	4.531		
18,800.00	7,730.00	18,075.29	7,618.00	162.68	156.34	85.14	-7,769.73	3,149.33	1,344.53	1,044.41	300.12	4.480		
18,900.00	7,730.00	18,175.29	7,618.00	164.25	158.00	85.14	-7,869.73	3,148.99	1,344.53	1,041.02	303.51	4.430		
19,000.00	7,730.00	18,275.29	7,618.00	165.83	159.66	85.14	-7,969.73	3,148.65	1,344.53	1,037.63	306.90	4.381		
19,100.00	7,730.00	18,375.29	7,618.00	167.41	161.33	85.14	-8,069.73	3,148.31	1,344.53	1,034.24	310.30	4.333		
19,200.00	7,730.00	18,475.29	7,618.00	168.99	162.99	85.14	-8,169.73	3,147.98	1,344.54	1,030.84	313.70	4.286		
19,300.00	7,730.00	18,575.29	7,618.00	170.58	164.66	85.14	-8,269.73	3,147.64	1,344.54	1,027.44	317.10	4.240		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,675.29	7,618.00	172.17	166.33	85.14	-8,369.73	3,147.30	1,344.54	1,024.04	320.50	4.195	
19,430.54	7,730.00	18,705.82	7,618.00	172.66	166.85	85.14	-8,400.26	3,147.19	1,344.54	1,023.00	321.54	4.182 SF	

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Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-89.30	0.36	-29.96	29.96					
100.00	100.00	101.00	101.00	0.13	0.14	-89.30	0.36	-29.96	29.96	29.69	0.27	109.979		
200.00	200.00	201.00	201.00	0.49	0.50	-89.30	0.36	-29.96	29.96	28.97	0.99	30.284		
300.00	300.00	301.00	301.00	0.85	0.85	-89.30	0.36	-29.96	29.96	28.26	1.71	17.560		
400.00	400.00	401.00	401.00	1.21	1.21	-89.30	0.36	-29.96	29.96	27.54	2.42	12.364		
500.00	500.00	501.00	501.00	1.57	1.57	-89.30	0.36	-29.96	29.96	26.82	3.14	9.542 CC, ES		
600.00	599.98	600.98	600.98	1.92	1.93	-156.00	0.36	-29.96	31.55	27.70	3.85	8.189		
700.00	699.84	700.84	700.84	2.28	2.29	-159.32	0.36	-29.96	36.39	31.83	4.56	7.973		
800.00	799.45	800.46	800.46	2.64	2.65	-163.22	0.36	-29.96	44.65	39.37	5.28	8.458		
900.00	898.70	901.55	901.53	3.02	3.00	-166.19	1.28	-28.41	54.77	48.77	5.99	9.140		
1,000.00	997.47	1,003.02	1,002.85	3.41	3.36	-167.91	4.00	-23.76	65.03	58.32	6.70	9.703		
1,100.00	1,095.62	1,104.86	1,104.29	3.84	3.73	-168.88	8.57	-15.98	75.35	67.94	7.41	10.164		
1,200.00	1,193.06	1,207.08	1,205.71	4.29	4.11	-169.37	14.98	-5.06	85.71	77.58	8.13	10.545		
1,300.00	1,289.64	1,309.66	1,306.98	4.78	4.51	-169.53	23.25	9.03	96.07	87.23	8.85	10.860		
1,400.00	1,385.27	1,412.62	1,407.96	5.32	4.93	-169.45	33.40	26.31	106.42	96.85	9.57	11.119		
1,500.00	1,479.82	1,515.95	1,508.52	5.90	5.38	-169.20	45.42	46.79	116.74	106.44	10.31	11.328		
1,600.00	1,573.17	1,619.65	1,608.51	6.53	5.87	-168.81	59.32	70.47	127.03	115.97	11.05	11.493		
1,700.00	1,665.21	1,723.71	1,707.79	7.23	6.41	-168.32	75.10	97.36	137.27	125.45	11.82	11.617		
1,800.00	1,755.84	1,828.14	1,806.21	7.98	7.00	-167.74	92.76	127.45	147.46	134.86	12.60	11.703		
1,900.00	1,844.94	1,932.92	1,903.62	8.80	7.64	-167.09	112.30	160.72	157.60	144.19	13.41	11.751		
2,000.00	1,932.39	2,038.06	1,999.88	9.68	8.35	-166.38	133.70	197.18	167.68	153.42	14.26	11.762		
2,100.00	2,018.11	2,143.54	2,094.83	10.63	9.12	-165.62	156.95	236.79	177.69	162.55	15.14	11.737		
2,200.00	2,101.97	2,249.37	2,188.33	11.65	9.97	-164.83	182.04	279.54	187.63	171.56	16.07	11.676		
2,300.00	2,183.88	2,355.53	2,280.22	12.74	10.89	-163.99	208.95	325.38	197.50	180.44	17.06	11.578		
2,400.00	2,263.74	2,462.03	2,370.35	13.90	11.90	-163.12	237.66	374.29	207.29	189.18	18.11	11.445		
2,431.61	2,288.54	2,495.75	2,398.45	14.29	12.23	-162.84	247.10	390.37	210.37	191.91	18.46	11.397		
2,500.00	2,341.97	2,564.42	2,455.32	15.13	12.92	-162.30	266.58	423.55	216.84	197.55	19.29	11.239		
2,600.00	2,420.08	2,663.93	2,537.72	16.37	13.94	-161.57	294.82	471.65	226.33	205.77	20.56	11.006		
2,700.00	2,498.20	2,763.43	2,620.13	17.63	14.99	-160.89	323.05	519.76	235.85	213.98	21.87	10.783		
2,800.00	2,576.32	2,862.94	2,702.54	18.89	16.04	-160.27	351.29	567.86	245.40	222.18	23.21	10.571		
2,900.00	2,654.43	2,962.45	2,784.95	20.17	17.11	-159.70	379.53	615.96	254.97	230.39	24.59	10.370		
3,000.00	2,732.55	3,061.96	2,867.35	21.45	18.19	-159.17	407.76	664.06	264.57	238.59	25.99	10.181		
3,100.00	2,810.67	3,161.47	2,949.76	22.74	19.27	-158.67	436.00	712.17	274.19	246.79	27.41	10.004		
3,200.00	2,888.78	3,260.98	3,032.17	24.03	20.36	-158.21	464.24	760.27	283.83	254.98	28.85	9.837		
3,300.00	2,966.90	3,360.49	3,114.58	25.33	21.46	-157.78	492.47	808.37	293.49	263.17	30.32	9.681		
3,400.00	3,045.02	3,460.00	3,196.98	26.63	22.56	-157.38	520.71	856.47	303.16	271.36	31.80	9.534		
3,500.00	3,123.13	3,559.51	3,279.39	27.94	23.67	-157.00	548.95	904.57	312.85	279.55	33.30	9.396		
3,600.00	3,201.25	3,659.02	3,361.80	29.24	24.77	-156.64	577.18	952.68	322.54	287.74	34.81	9.267		
3,700.00	3,279.37	3,758.53	3,444.21	30.55	25.89	-156.31	605.42	1,000.78	332.25	295.92	36.33	9.146		
3,800.00	3,357.49	3,858.04	3,526.61	31.86	27.00	-155.99	633.66	1,048.88	341.97	304.11	37.87	9.031		
3,900.00	3,435.60	3,957.55	3,609.02	33.18	28.12	-155.69	661.89	1,096.98	351.70	312.29	39.41	8.924		
4,000.00	3,513.72	4,057.05	3,691.43	34.49	29.24	-155.41	690.13	1,145.08	361.44	320.48	40.97	8.823		
4,100.00	3,591.84	4,156.56	3,773.83	35.81	30.36	-155.14	718.37	1,193.19	371.19	328.66	42.53	8.727		
4,200.00	3,669.95	4,256.07	3,856.24	37.12	31.48	-154.89	746.60	1,241.29	380.95	336.84	44.10	8.637		
4,300.00	3,748.07	4,355.58	3,938.65	38.44	32.60	-154.65	774.84	1,289.39	390.71	345.02	45.68	8.552		
4,400.00	3,826.19	4,455.09	4,021.06	39.76	33.73	-154.42	803.07	1,337.49	400.48	353.21	47.27	8.472		
4,500.00	3,904.30	4,554.60	4,103.46	41.08	34.86	-154.20	831.31	1,385.59	410.25	361.39	48.86	8.396		
4,600.00	3,982.42	4,634.11	4,185.87	42.40	35.98	-153.99	859.55	1,433.70	420.03	369.57	50.46	8.323		
4,700.00	4,060.54	4,713.62	4,268.28	43.72	37.11	-153.79	887.78	1,481.80	429.82	377.75	52.07	8.255		
4,800.00	4,138.66	4,803.13	4,350.69	45.05	38.24	-153.60	916.02	1,529.90	439.61	385.93	53.68	8.190		
4,900.00	4,216.77	4,892.64	4,433.09	46.37	39.37	-153.42	944.26	1,578.00	449.40	394.11	55.29	8.128		
5,000.00	4,294.89	5,052.15	4,515.50	47.69	40.50	-153.25	972.49	1,626.11	459.20	402.29	56.91	8.069		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,151.66	4,597.91	49.02	41.63	-153.08	1,000.73	1,674.21	469.00	410.47	58.53	8.012		
5,200.00	4,451.12	5,251.17	4,680.32	50.34	42.77	-152.92	1,028.97	1,722.31	478.81	418.65	60.16	7.959		
5,300.00	4,529.24	5,350.68	4,762.72	51.67	43.90	-152.77	1,057.20	1,770.41	488.62	426.83	61.79	7.908		
5,400.00	4,607.36	5,450.18	4,845.13	52.99	45.03	-152.62	1,085.44	1,818.51	498.44	435.01	63.43	7.859		
5,500.00	4,685.47	5,549.69	4,927.54	54.32	46.17	-152.48	1,113.68	1,866.62	508.25	443.19	65.06	7.812		
5,600.00	4,763.59	5,649.20	5,009.95	55.64	47.30	-152.34	1,141.91	1,914.72	518.07	451.37	66.70	7.767		
5,700.00	4,841.71	5,748.71	5,092.35	56.97	48.44	-152.21	1,170.15	1,962.82	527.90	459.55	68.34	7.724		
5,800.00	4,919.83	5,848.22	5,174.76	58.30	49.57	-152.09	1,198.39	2,010.92	537.72	467.73	69.99	7.683		
5,900.00	4,997.94	5,947.73	5,257.17	59.62	50.71	-151.96	1,226.62	2,059.02	547.55	475.91	71.64	7.643		
6,000.00	5,076.06	6,047.24	5,339.58	60.95	51.84	-151.85	1,254.86	2,107.13	557.38	484.09	73.29	7.606		
6,100.00	5,154.18	6,146.75	5,421.98	62.28	52.98	-151.73	1,283.10	2,155.23	567.21	492.27	74.94	7.569		
6,200.00	5,232.29	6,246.26	5,504.39	63.61	54.12	-151.62	1,311.33	2,203.33	577.05	500.45	76.59	7.534		
6,300.00	5,310.41	6,345.77	5,586.80	64.93	55.25	-151.52	1,339.57	2,251.43	586.88	508.64	78.25	7.500		
6,400.00	5,388.53	6,445.28	5,669.20	66.26	56.39	-151.41	1,367.80	2,299.54	596.72	516.82	79.91	7.468		
6,500.00	5,466.64	6,544.79	5,751.61	67.59	57.53	-151.31	1,396.04	2,347.64	606.56	525.00	81.56	7.437		
6,600.00	5,544.76	6,644.30	5,834.02	68.92	58.67	-151.22	1,424.28	2,395.74	616.40	533.18	83.23	7.406		
6,700.00	5,622.88	6,743.80	5,916.43	70.25	59.80	-151.13	1,452.51	2,443.84	626.25	541.36	84.89	7.377		
6,800.00	5,701.00	6,843.31	5,998.83	71.58	60.94	-151.04	1,480.75	2,491.94	636.09	549.54	86.55	7.349		
6,900.00	5,779.11	6,942.82	6,081.24	72.91	62.08	-150.95	1,508.99	2,540.05	645.94	557.72	88.22	7.322		
7,000.00	5,857.23	7,042.33	6,163.65	74.23	63.22	-150.86	1,537.22	2,588.15	655.79	565.90	89.88	7.296		
7,100.00	5,935.35	7,141.84	6,246.06	75.56	64.36	-150.78	1,565.46	2,636.25	665.64	574.09	91.55	7.271		
7,200.00	6,013.46	7,241.35	6,328.46	76.89	65.50	-150.70	1,593.70	2,684.35	675.49	582.27	93.22	7.246		
7,300.00	6,091.58	7,340.86	6,410.87	78.22	66.64	-150.62	1,621.93	2,732.45	685.34	590.45	94.89	7.222		
7,400.00	6,169.70	7,440.37	6,493.28	79.55	67.78	-150.55	1,650.17	2,780.56	695.20	598.63	96.56	7.199		
7,500.00	6,247.81	7,539.88	6,575.69	80.88	68.91	-150.48	1,678.41	2,828.66	705.05	606.81	98.24	7.177		
7,600.00	6,325.93	7,639.39	6,658.09	82.21	70.05	-150.40	1,706.64	2,876.76	714.91	615.00	99.91	7.155		
7,700.00	6,404.05	7,738.90	6,740.50	83.54	71.19	-150.33	1,734.88	2,924.86	724.76	623.18	101.59	7.135		
7,800.00	6,482.17	7,838.41	6,822.91	84.87	72.33	-150.27	1,763.12	2,972.96	734.62	631.36	103.26	7.114		
7,900.00	6,560.28	7,937.92	6,905.32	86.20	73.47	-150.20	1,791.35	3,021.07	744.48	639.54	104.94	7.094		
8,000.00	6,638.40	8,037.42	6,987.72	87.53	74.61	-150.14	1,819.59	3,069.17	754.34	647.72	106.62	7.075		
8,100.00	6,716.52	8,136.93	7,070.13	88.86	75.75	-150.08	1,847.83	3,117.27	764.20	655.91	108.29	7.057		
8,200.00	6,794.63	8,253.63	7,168.16	90.20	77.05	-150.50	1,874.33	3,174.47	773.26	663.96	109.31	7.074		
8,300.00	6,872.75	8,370.67	7,269.05	91.53	78.16	-152.59	1,878.00	3,233.26	779.89	672.45	107.44	7.259		
8,400.00	6,950.87	8,473.26	7,356.47	92.86	78.93	-155.73	1,861.65	3,284.13	786.02	682.31	103.71	7.579		
8,500.00	7,028.98	8,558.70	7,426.43	94.19	79.41	-159.19	1,834.45	3,324.79	794.41	694.95	99.46	7.987		
8,600.00	7,107.10	8,628.06	7,480.15	95.52	79.69	-162.49	1,803.72	3,355.98	807.59	712.13	95.45	8.461		
8,647.91	7,144.53	8,656.34	7,501.08	96.16	79.78	-163.95	1,789.07	3,368.12	816.15	722.46	93.69	8.711		
8,650.00	7,146.16	8,657.51	7,501.93	96.18	79.78	-164.30	1,788.43	3,368.62	816.56	722.94	93.62	8.722		
8,700.00	7,185.66	8,685.36	7,521.87	96.84	79.84	-172.96	1,772.81	3,380.18	827.10	735.13	91.97	8.993		
8,750.00	7,225.78	8,712.95	7,540.96	97.47	79.90	177.89	1,756.25	3,391.24	838.87	748.31	90.57	9.263		
8,800.00	7,266.21	8,740.33	7,559.20	98.08	79.94	168.51	1,738.78	3,401.81	851.60	762.24	89.36	9.530		
8,850.00	7,306.63	8,767.53	7,576.58	98.64	79.96	159.15	1,720.45	3,411.88	865.02	776.71	88.31	9.795		
8,900.00	7,346.75	8,794.57	7,593.11	99.17	79.98	150.09	1,701.30	3,421.44	878.88	791.48	87.39	10.056		
8,950.00	7,386.25	8,821.50	7,608.77	99.64	79.98	141.56	1,681.36	3,430.49	892.94	806.34	86.60	10.311		
9,000.00	7,424.84	8,850.00	7,624.44	100.06	79.97	133.65	1,659.35	3,439.55	907.00	821.15	85.84	10.566		
9,050.00	7,462.22	8,875.05	7,637.43	100.42	79.95	126.61	1,639.29	3,447.05	920.83	835.51	85.32	10.792		
9,100.00	7,498.11	8,900.00	7,649.59	100.74	79.93	120.32	1,618.66	3,454.07	934.28	849.36	84.92	11.002		
9,150.00	7,532.24	8,928.29	7,662.44	100.99	79.88	114.71	1,594.57	3,461.47	947.16	862.66	84.50	11.209		
9,200.00	7,564.34	8,950.00	7,671.59	101.19	79.84	109.93	1,575.60	3,466.73	959.35	874.84	84.51	11.352		
9,250.00	7,594.17	8,981.32	7,683.68	101.34	79.77	105.63	1,547.57	3,473.68	970.66	886.44	84.22	11.526		
9,300.00	7,621.50	9,000.00	7,690.26	101.45	79.73	102.12	1,530.49	3,477.46	981.08	896.33	84.75	11.576		
9,350.00	7,646.13	9,034.19	7,701.04	101.50	79.64	98.95	1,498.64	3,483.63	990.33	905.74	84.59	11.707		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,060.59	7,708.23	101.51	79.56	96.39	1,473.58	3,487.73	998.49	913.43	85.05	11.739		
9,450.00	7,686.55	9,086.97	7,714.41	101.48	79.48	94.30	1,448.18	3,491.25	1,005.42	919.71	85.71	11.730		
9,500.00	7,702.04	9,113.33	7,719.57	101.42	79.39	92.64	1,422.50	3,494.17	1,011.07	924.50	86.57	11.679		
9,550.00	7,714.20	9,139.68	7,723.71	101.33	79.29	91.39	1,396.58	3,496.49	1,015.39	927.77	87.62	11.589		
9,600.00	7,722.96	9,166.02	7,726.81	101.20	79.19	90.53	1,370.48	3,498.21	1,018.34	929.48	88.86	11.460		
9,650.00	7,728.24	9,200.00	7,729.27	101.06	79.06	90.04	1,336.62	3,499.53	1,019.95	930.35	89.60	11.384		
9,699.97	7,730.00	9,218.68	7,729.88	100.90	78.98	89.94	1,317.96	3,499.82	1,020.05	928.21	91.83	11.107		
9,743.70	7,730.00	9,251.22	7,730.00	100.75	78.85	89.94	1,285.42	3,499.78	1,019.92	927.53	92.39	11.039		
9,800.00	7,730.00	9,307.52	7,730.00	100.56	78.62	89.94	1,229.12	3,499.59	1,019.92	928.15	91.77	11.114		
9,900.00	7,730.00	9,407.52	7,730.00	100.24	78.23	89.94	1,129.12	3,499.25	1,019.92	929.14	90.78	11.235		
10,000.00	7,730.00	9,507.52	7,730.00	99.93	77.86	89.94	1,029.12	3,498.92	1,019.92	930.00	89.91	11.343		
10,100.00	7,730.00	9,607.52	7,730.00	99.64	77.50	89.94	929.12	3,498.58	1,019.91	930.73	89.18	11.436		
10,200.00	7,730.00	9,707.52	7,730.00	99.36	77.17	89.94	829.12	3,498.24	1,019.91	931.33	88.59	11.513		
10,300.00	7,730.00	9,807.52	7,730.00	99.09	76.85	89.94	729.12	3,497.90	1,019.91	931.78	88.13	11.573		
10,400.00	7,730.00	9,907.52	7,730.00	98.84	76.56	89.94	629.12	3,497.56	1,019.91	932.10	87.81	11.615		
10,500.00	7,730.00	10,007.52	7,730.00	98.61	76.28	89.94	529.12	3,497.23	1,019.91	932.28	87.63	11.639		
10,600.00	7,730.00	10,107.52	7,730.00	98.39	76.02	89.94	429.12	3,496.89	1,019.91	932.31	87.60	11.642		
10,700.00	7,730.00	10,207.52	7,730.00	98.18	75.77	89.94	329.12	3,496.55	1,019.91	932.20	87.71	11.629		
10,800.00	7,730.00	10,307.52	7,730.00	97.99	75.55	89.94	229.12	3,496.21	1,019.91	931.95	87.96	11.595		
10,900.00	7,730.00	10,407.52	7,730.00	97.81	75.35	89.94	129.13	3,495.88	1,019.91	931.55	88.36	11.543		
11,000.00	7,730.00	10,507.52	7,730.00	97.64	75.16	89.94	29.13	3,495.54	1,019.91	931.02	88.89	11.474		
11,100.00	7,730.00	10,607.52	7,730.00	97.50	75.00	89.94	-70.87	3,495.20	1,019.91	930.36	89.55	11.389		
11,200.00	7,730.00	10,707.52	7,730.00	97.36	74.85	89.94	-170.87	3,494.86	1,019.90	929.55	90.36	11.288		
11,300.00	7,730.00	10,807.52	7,730.00	97.24	74.73	89.94	-270.87	3,494.52	1,019.90	928.62	91.29	11.172		
11,400.00	7,730.00	10,907.52	7,730.00	97.14	74.63	89.94	-370.87	3,494.19	1,019.90	927.56	92.35	11.044		
11,500.00	7,730.00	11,007.52	7,730.00	97.06	74.55	89.94	-470.87	3,493.85	1,019.90	926.38	93.52	10.905		
11,600.00	7,730.00	11,107.52	7,730.00	96.98	74.50	89.94	-570.87	3,493.51	1,019.90	925.08	94.82	10.756		
11,700.00	7,730.00	11,207.52	7,730.00	96.93	74.47	89.94	-670.87	3,493.17	1,019.90	923.67	96.23	10.599		
11,800.00	7,730.00	11,307.52	7,730.00	96.90	74.48	89.94	-770.87	3,492.84	1,019.90	922.15	97.75	10.434		
11,900.00	7,730.00	11,407.52	7,730.00	96.88	74.51	89.94	-870.87	3,492.50	1,019.90	920.53	99.37	10.264		
12,000.00	7,730.00	11,507.52	7,730.00	96.88	74.57	89.94	-970.87	3,492.16	1,019.90	918.81	101.08	10.090		
12,100.00	7,730.00	11,607.52	7,730.00	96.90	74.67	89.94	-1,070.87	3,491.82	1,019.90	917.00	102.89	9.912		
12,200.00	7,730.00	11,707.52	7,730.00	96.94	74.80	89.94	-1,170.87	3,491.48	1,019.89	915.11	104.79	9.733		
12,300.00	7,730.00	11,807.52	7,730.00	97.00	74.97	89.94	-1,270.87	3,491.15	1,019.89	913.12	106.77	9.552		
12,400.00	7,730.00	11,907.52	7,730.00	97.08	75.19	89.94	-1,370.87	3,490.81	1,019.89	911.06	108.83	9.372		
12,500.00	7,730.00	12,007.52	7,730.00	97.18	75.45	89.94	-1,470.87	3,490.47	1,019.89	908.93	110.96	9.191		
12,600.00	7,730.00	12,107.52	7,730.00	97.31	75.76	89.94	-1,570.87	3,490.13	1,019.89	906.72	113.17	9.012		
12,700.00	7,730.00	12,207.52	7,730.00	97.46	76.12	89.94	-1,670.86	3,489.80	1,019.89	904.45	115.44	8.835		
12,800.00	7,730.00	12,307.52	7,730.00	97.64	76.54	89.94	-1,770.86	3,489.46	1,019.89	902.12	117.77	8.660		
12,900.00	7,730.00	12,407.52	7,730.00	97.85	77.01	89.94	-1,870.86	3,489.12	1,019.89	899.73	120.16	8.488		
13,000.00	7,730.00	12,507.52	7,730.00	98.09	77.54	89.94	-1,970.86	3,488.78	1,019.89	897.28	122.61	8.318		
13,100.00	7,730.00	12,607.52	7,730.00	98.35	78.14	89.94	-2,070.86	3,488.44	1,019.89	894.78	125.10	8.152		
13,200.00	7,730.00	12,707.52	7,730.00	98.65	78.79	89.94	-2,170.86	3,488.11	1,019.89	892.23	127.65	7.990		
13,300.00	7,730.00	12,807.52	7,730.00	98.98	79.51	89.94	-2,270.86	3,487.77	1,019.88	889.64	130.24	7.831		
13,400.00	7,730.00	12,907.52	7,730.00	99.34	80.28	89.94	-2,370.86	3,487.43	1,019.88	887.00	132.88	7.675		
13,500.00	7,730.00	13,007.52	7,730.00	99.74	81.12	89.94	-2,470.86	3,487.09	1,019.88	884.32	135.56	7.524		
13,600.00	7,730.00	13,107.52	7,730.00	100.17	82.00	89.94	-2,570.86	3,486.76	1,019.88	881.61	138.27	7.376		
13,700.00	7,730.00	13,207.52	7,730.00	100.65	82.95	89.94	-2,670.86	3,486.42	1,019.88	878.85	141.03	7.232		
13,800.00	7,730.00	13,307.52	7,730.00	101.16	83.94	89.94	-2,770.86	3,486.08	1,019.88	876.07	143.81	7.092		
13,900.00	7,730.00	13,407.52	7,730.00	101.71	84.98	89.94	-2,870.86	3,485.74	1,019.88	873.25	146.63	6.955		
14,000.00	7,730.00	13,507.52	7,730.00	102.30	86.06	89.94	-2,970.86	3,485.40	1,019.88	870.40	149.48	6.823		
14,100.00	7,730.00	13,607.52	7,730.00	102.93	87.18	89.94	-3,070.86	3,485.07	1,019.88	867.52	152.36	6.694		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	13,707.52	7,730.00	103.60	88.34	89.94	-3,170.86	3,484.73	1,019.88	864.61	155.26	6.569		
14,300.00	7,730.00	13,807.52	7,730.00	104.32	89.53	89.94	-3,270.86	3,484.39	1,019.87	861.68	158.19	6.447		
14,400.00	7,730.00	13,907.52	7,730.00	105.07	90.76	89.94	-3,370.85	3,484.05	1,019.87	858.73	161.15	6.329		
14,500.00	7,730.00	14,007.52	7,730.00	105.86	92.01	89.94	-3,470.85	3,483.72	1,019.87	855.75	164.12	6.214		
14,600.00	7,730.00	14,107.52	7,730.00	106.70	93.29	89.94	-3,570.85	3,483.38	1,019.87	852.75	167.12	6.103		
14,700.00	7,730.00	14,207.52	7,730.00	107.57	94.60	89.94	-3,670.85	3,483.04	1,019.87	849.73	170.14	5.994		
14,800.00	7,730.00	14,307.52	7,730.00	108.48	95.93	89.94	-3,770.85	3,482.70	1,019.87	846.69	173.18	5.889		
14,900.00	7,730.00	14,407.52	7,730.00	109.43	97.27	89.94	-3,870.85	3,482.36	1,019.87	843.63	176.24	5.787		
15,000.00	7,730.00	14,507.52	7,730.00	110.42	98.64	89.94	-3,970.85	3,482.03	1,019.87	840.55	179.32	5.688		
15,100.00	7,730.00	14,607.52	7,730.00	111.43	100.03	89.94	-4,070.85	3,481.69	1,019.87	837.46	182.41	5.591		
15,200.00	7,730.00	14,707.52	7,730.00	112.49	101.43	89.94	-4,170.85	3,481.35	1,019.87	834.35	185.51	5.498		
15,300.00	7,730.00	14,807.52	7,730.00	113.57	102.85	89.94	-4,270.85	3,481.01	1,019.87	831.23	188.64	5.406		
15,400.00	7,730.00	14,907.52	7,730.00	114.68	104.28	89.94	-4,370.85	3,480.67	1,019.86	828.09	191.77	5.318		
15,500.00	7,730.00	15,007.52	7,730.00	115.82	105.73	89.94	-4,470.85	3,480.34	1,019.86	824.94	194.92	5.232		
15,600.00	7,730.00	15,107.52	7,730.00	116.99	107.18	89.94	-4,570.85	3,480.00	1,019.86	821.77	198.09	5.149		
15,700.00	7,730.00	15,207.52	7,730.00	118.19	108.65	89.94	-4,670.85	3,479.66	1,019.86	818.60	201.26	5.067		
15,800.00	7,730.00	15,307.52	7,730.00	119.41	110.13	89.94	-4,770.85	3,479.32	1,019.86	815.41	204.45	4.988		
15,900.00	7,730.00	15,407.52	7,730.00	120.65	111.62	89.94	-4,870.85	3,478.99	1,019.86	812.21	207.65	4.911		
16,000.00	7,730.00	15,507.52	7,730.00	121.91	113.12	89.94	-4,970.85	3,478.65	1,019.86	809.00	210.86	4.837		
16,100.00	7,730.00	15,607.52	7,730.00	123.20	114.63	89.94	-5,070.85	3,478.31	1,019.86	805.78	214.08	4.764		
16,200.00	7,730.00	15,707.52	7,730.00	124.50	116.15	89.94	-5,170.84	3,477.97	1,019.86	802.55	217.31	4.693		
16,300.00	7,730.00	15,807.52	7,730.00	125.82	117.68	89.94	-5,270.84	3,477.63	1,019.86	799.31	220.55	4.624		
16,400.00	7,730.00	15,907.52	7,730.00	127.16	119.21	89.94	-5,370.84	3,477.30	1,019.86	796.06	223.80	4.557		
16,500.00	7,730.00	16,007.52	7,730.00	128.52	120.75	89.94	-5,470.84	3,476.96	1,019.85	792.80	227.05	4.492		
16,600.00	7,730.00	16,107.52	7,730.00	129.89	122.30	89.94	-5,570.84	3,476.62	1,019.85	789.54	230.32	4.428		
16,700.00	7,730.00	16,207.52	7,730.00	131.27	123.85	89.94	-5,670.84	3,476.28	1,019.85	786.26	233.59	4.366		
16,800.00	7,730.00	16,307.52	7,730.00	132.67	125.41	89.94	-5,770.84	3,475.95	1,019.85	782.98	236.87	4.306		
16,900.00	7,730.00	16,407.52	7,730.00	134.09	126.98	89.94	-5,870.84	3,475.61	1,019.85	779.69	240.16	4.247		
17,000.00	7,730.00	16,507.52	7,730.00	135.51	128.55	89.94	-5,970.84	3,475.27	1,019.85	776.40	243.45	4.189		
17,100.00	7,730.00	16,607.52	7,730.00	136.95	130.13	89.94	-6,070.84	3,474.93	1,019.85	773.10	246.75	4.133		
17,200.00	7,730.00	16,707.52	7,730.00	138.40	131.71	89.94	-6,170.84	3,474.59	1,019.85	769.79	250.06	4.078		
17,300.00	7,730.00	16,807.52	7,730.00	139.85	133.30	89.94	-6,270.84	3,474.26	1,019.85	766.47	253.37	4.025		
17,400.00	7,730.00	16,907.52	7,730.00	141.32	134.89	89.94	-6,370.84	3,473.92	1,019.85	763.15	256.69	3.973		
17,500.00	7,730.00	17,007.52	7,730.00	142.80	136.49	89.94	-6,470.84	3,473.58	1,019.84	759.83	260.02	3.922		
17,600.00	7,730.00	17,107.52	7,730.00	144.28	138.09	89.94	-6,570.84	3,473.24	1,019.84	756.50	263.35	3.873		
17,700.00	7,730.00	17,207.52	7,730.00	145.78	139.69	89.94	-6,670.84	3,472.91	1,019.84	753.16	266.68	3.824		
17,800.00	7,730.00	17,307.52	7,730.00	147.28	141.30	89.94	-6,770.84	3,472.57	1,019.84	749.82	270.02	3.777		
17,900.00	7,730.00	17,407.52	7,730.00	148.79	142.92	89.94	-6,870.84	3,472.23	1,019.84	746.47	273.37	3.731		
18,000.00	7,730.00	17,507.52	7,730.00	150.31	144.53	89.94	-6,970.83	3,471.89	1,019.84	743.12	276.72	3.685		
18,100.00	7,730.00	17,607.52	7,730.00	151.83	146.15	89.94	-7,070.83	3,471.55	1,019.84	739.77	280.07	3.641		
18,200.00	7,730.00	17,707.52	7,730.00	153.37	147.78	89.94	-7,170.83	3,471.22	1,019.84	736.41	283.43	3.598		
18,300.00	7,730.00	17,807.52	7,730.00	154.90	149.40	89.94	-7,270.83	3,470.88	1,019.84	733.04	286.80	3.556		
18,400.00	7,730.00	17,907.52	7,730.00	156.45	151.03	89.94	-7,370.83	3,470.54	1,019.84	729.67	290.16	3.515		
18,500.00	7,730.00	18,007.52	7,730.00	158.00	152.67	89.94	-7,470.83	3,470.20	1,019.84	726.30	293.53	3.474		
18,600.00	7,730.00	18,107.52	7,730.00	159.55	154.30	89.94	-7,570.83	3,469.87	1,019.83	722.92	296.91	3.435		
18,700.00	7,730.00	18,207.52	7,730.00	161.11	155.94	89.94	-7,670.83	3,469.53	1,019.83	719.54	300.29	3.396		
18,800.00	7,730.00	18,307.52	7,730.00	162.68	157.58	89.94	-7,770.83	3,469.19	1,019.83	716.16	303.67	3.358		
18,900.00	7,730.00	18,407.52	7,730.00	164.25	159.23	89.94	-7,870.83	3,468.85	1,019.83	712.77	307.06	3.321		
19,000.00	7,730.00	18,507.52	7,730.00	165.83	160.88	89.94	-7,970.83	3,468.51	1,019.83	709.38	310.45	3.285		
19,100.00	7,730.00	18,607.52	7,730.00	167.41	162.53	89.94	-8,070.83	3,468.18	1,019.83	705.99	313.84	3.250		
19,200.00	7,730.00	18,707.52	7,730.00	168.99	164.18	89.94	-8,170.83	3,467.84	1,019.83	702.60	317.23	3.215		
19,300.00	7,730.00	18,807.52	7,730.00	170.58	165.83	89.94	-8,270.83	3,467.50	1,019.83	699.20	320.63	3.181		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	18,907.52	7,730.00	172.17	167.49	89.94	-8,370.83	3,467.16	1,019.83	695.79	324.03	3.147	
19,430.54	7,730.00	18,938.05	7,730.00	172.66	167.99	89.94	-8,401.36	3,467.06	1,019.83	694.75	325.07	3.137 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-90.00	0.00	-19.88	19.88					
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-19.88	19.88	19.61	0.27	72.971		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-19.88	19.88	18.89	0.99	20.094		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-19.88	19.88	18.17	1.71	11.651		
400.00	400.00	401.00	401.00	1.21	1.21	-90.00	0.00	-19.88	19.88	17.46	2.42	8.204		
500.00	500.00	501.00	501.00	1.57	1.57	-90.00	0.00	-19.88	19.88	16.74	3.14	6.331	CC, ES	
600.00	599.98	600.98	600.98	1.92	1.93	-157.28	0.00	-19.88	21.48	17.63	3.85	5.575		
700.00	699.84	700.84	700.84	2.28	2.29	-161.64	0.00	-19.88	26.38	21.82	4.56	5.780		
800.00	799.45	801.59	801.57	2.64	2.65	-165.24	0.85	-18.29	33.07	27.80	5.27	6.271		
900.00	898.70	902.58	902.41	3.02	3.00	-167.31	3.38	-13.57	39.87	33.89	5.98	6.668		
1,000.00	997.47	1,003.81	1,003.24	3.41	3.37	-168.50	7.61	-5.70	46.71	40.03	6.69	6.987		
1,100.00	1,095.62	1,105.29	1,103.94	3.84	3.75	-169.14	13.53	5.34	53.57	46.18	7.39	7.247		
1,200.00	1,193.06	1,207.02	1,204.38	4.29	4.14	-169.42	21.16	19.55	60.43	52.32	8.10	7.456		
1,300.00	1,289.64	1,308.99	1,304.41	4.78	4.57	-169.44	30.49	36.94	67.27	58.45	8.82	7.626		
1,400.00	1,385.27	1,411.20	1,403.92	5.32	5.02	-169.28	41.52	57.51	74.08	64.54	9.54	7.762		
1,500.00	1,479.82	1,513.66	1,502.76	5.90	5.51	-168.98	54.26	81.26	80.87	70.59	10.28	7.869		
1,600.00	1,573.17	1,616.35	1,600.80	6.53	6.05	-168.57	68.70	108.16	87.61	76.59	11.02	7.948		
1,700.00	1,665.21	1,719.28	1,697.91	7.23	6.63	-168.07	84.83	138.23	94.31	82.52	11.79	8.001		
1,800.00	1,755.84	1,822.44	1,793.94	7.98	7.27	-167.51	102.63	171.42	100.96	88.39	12.57	8.029		
1,900.00	1,844.94	1,925.83	1,888.77	8.80	7.98	-166.89	122.11	207.72	107.56	94.17	13.39	8.035		
2,000.00	1,932.39	2,029.45	1,982.25	9.68	8.75	-166.21	143.24	247.10	114.10	99.87	14.23	8.017		
2,100.00	2,018.11	2,133.30	2,074.24	10.63	9.58	-165.50	166.00	289.53	120.59	105.47	15.12	7.977		
2,200.00	2,101.97	2,237.36	2,164.62	11.65	10.49	-164.75	190.38	334.97	127.01	110.96	16.05	7.914		
2,300.00	2,183.88	2,341.63	2,253.25	12.74	11.48	-163.97	216.35	383.38	133.37	116.33	17.04	7.829		
2,400.00	2,263.74	2,446.12	2,339.99	13.90	12.54	-163.16	243.88	434.70	139.66	121.57	18.09	7.722		
2,431.61	2,288.54	2,479.18	2,369.99	14.29	12.89	-162.90	252.91	451.51	141.63	123.20	18.43	7.684		
2,500.00	2,341.97	2,549.03	2,423.43	15.13	13.66	-162.30	272.36	487.77	145.32	126.07	19.26	7.546		
2,600.00	2,420.08	2,648.87	2,503.95	16.37	14.77	-161.46	300.27	539.80	150.50	129.92	20.58	7.315		
2,700.00	2,498.20	2,748.71	2,584.46	17.63	15.91	-160.67	328.19	591.83	155.70	133.76	21.94	7.098		
2,800.00	2,576.32	2,848.56	2,664.97	18.89	17.06	-159.94	356.10	643.86	160.93	137.59	23.34	6.896		
2,900.00	2,654.43	2,948.40	2,745.48	20.17	18.22	-159.25	384.02	695.89	166.18	141.41	24.78	6.707		
3,000.00	2,732.55	3,048.24	2,826.00	21.45	19.38	-158.60	411.93	747.92	171.46	145.21	26.25	6.532		
3,100.00	2,810.67	3,148.08	2,906.51	22.74	20.56	-157.99	439.85	799.95	176.76	149.01	27.75	6.370		
3,200.00	2,888.78	3,247.93	2,987.02	24.03	21.74	-157.42	467.76	851.98	182.08	152.80	29.28	6.219		
3,300.00	2,966.90	3,347.77	3,067.53	25.33	22.93	-156.88	495.67	904.01	187.41	156.58	30.83	6.078		
3,400.00	3,045.02	3,447.61	3,148.04	26.63	24.12	-156.37	523.59	956.04	192.76	160.35	32.41	5.948		
3,500.00	3,123.13	3,547.45	3,228.56	27.94	25.31	-155.89	551.50	1,008.07	198.12	164.12	34.01	5.826		
3,600.00	3,201.25	3,647.30	3,309.07	29.24	26.51	-155.43	579.42	1,060.09	203.50	167.88	35.62	5.713		
3,700.00	3,279.37	3,747.14	3,389.58	30.55	27.71	-154.99	607.33	1,112.12	208.89	171.63	37.26	5.607		
3,800.00	3,357.49	3,846.98	3,470.09	31.86	28.92	-154.58	635.25	1,164.15	214.29	175.39	38.91	5.508		
3,900.00	3,435.60	3,946.82	3,550.61	33.18	30.12	-154.19	663.16	1,216.18	219.70	179.13	40.57	5.415		
4,000.00	3,513.72	4,046.67	3,631.12	34.49	31.33	-153.82	691.07	1,268.21	225.12	182.88	42.25	5.329		
4,100.00	3,591.84	4,146.51	3,711.63	35.81	32.54	-153.46	718.99	1,320.24	230.55	186.62	43.94	5.248		
4,200.00	3,669.95	4,246.35	3,792.14	37.12	33.75	-153.12	746.90	1,372.27	235.99	190.36	45.64	5.171		
4,300.00	3,748.07	4,346.19	3,872.66	38.44	34.96	-152.80	774.82	1,424.30	241.44	194.09	47.35	5.099		
4,400.00	3,826.19	4,446.04	3,953.17	39.76	36.18	-152.49	802.73	1,476.33	246.89	197.82	49.07	5.032		
4,500.00	3,904.30	4,545.88	4,033.68	41.08	37.39	-152.19	830.65	1,528.36	252.35	201.56	50.80	4.968		
4,600.00	3,982.42	4,645.72	4,114.19	42.40	38.61	-151.91	858.56	1,580.39	257.82	205.28	52.54	4.907		
4,700.00	4,060.54	4,745.56	4,194.71	43.72	39.82	-151.64	886.47	1,632.42	263.29	209.01	54.28	4.850		
4,800.00	4,138.66	4,845.41	4,275.22	45.05	41.04	-151.38	914.39	1,684.45	268.77	212.74	56.04	4.796		
4,900.00	4,216.77	4,945.25	4,355.73	46.37	42.26	-151.13	942.30	1,736.48	274.26	216.46	57.80	4.745		
5,000.00	4,294.89	5,045.09	4,436.24	47.69	43.48	-150.89	970.22	1,788.51	279.75	220.18	59.56	4.697		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,144.93	4,516.76	49.02	44.70	-150.66	998.13	1,840.54	285.24	223.91	61.33	4.651		
5,200.00	4,451.12	5,244.78	4,597.27	50.34	45.92	-150.43	1,026.05	1,892.57	290.74	227.63	63.11	4.607		
5,300.00	4,529.24	5,344.62	4,677.78	51.67	47.14	-150.22	1,053.96	1,944.60	296.24	231.35	64.89	4.565		
5,400.00	4,607.36	5,444.46	4,758.29	52.99	48.36	-150.01	1,081.87	1,996.62	301.75	235.06	66.68	4.525		
5,500.00	4,685.47	5,544.30	4,838.81	54.32	49.58	-149.81	1,109.79	2,048.65	307.26	238.78	68.47	4.487		
5,600.00	4,763.59	5,644.15	4,919.32	55.64	50.81	-149.62	1,137.70	2,100.68	312.77	242.50	70.27	4.451		
5,700.00	4,841.71	5,743.99	4,999.83	56.97	52.03	-149.44	1,165.62	2,152.71	318.29	246.22	72.07	4.416		
5,800.00	4,919.83	5,843.83	5,080.34	58.30	53.25	-149.26	1,193.53	2,204.74	323.81	249.93	73.88	4.383		
5,900.00	4,997.94	5,943.67	5,160.86	59.62	54.48	-149.08	1,221.45	2,256.77	329.33	253.65	75.68	4.351		
6,000.00	5,076.06	6,043.52	5,241.37	60.95	55.70	-148.92	1,249.36	2,308.80	334.86	257.36	77.50	4.321		
6,100.00	5,154.18	6,143.36	5,321.88	62.28	56.92	-148.75	1,277.28	2,360.83	340.39	261.08	79.31	4.292		
6,200.00	5,232.29	6,243.20	5,402.39	63.61	58.15	-148.60	1,305.19	2,412.86	345.92	264.79	81.13	4.264		
6,300.00	5,310.41	6,343.04	5,482.91	64.93	59.37	-148.45	1,333.10	2,464.89	351.45	268.50	82.95	4.237		
6,400.00	5,388.53	6,442.89	5,563.42	66.26	60.60	-148.30	1,361.02	2,516.92	356.99	272.22	84.77	4.211		
6,500.00	5,466.64	6,542.73	5,643.93	67.59	61.82	-148.16	1,388.93	2,568.95	362.53	275.93	86.60	4.186		
6,600.00	5,544.76	6,642.57	5,724.44	68.92	63.05	-148.02	1,416.85	2,620.98	368.07	279.64	88.43	4.162		
6,700.00	5,622.88	6,742.41	5,804.95	70.25	64.27	-147.88	1,444.76	2,673.01	373.61	283.35	90.26	4.139		
6,800.00	5,701.00	6,842.26	5,885.47	71.58	65.50	-147.75	1,472.68	2,725.04	379.16	287.07	92.09	4.117		
6,900.00	5,779.11	6,942.10	5,965.98	72.91	66.73	-147.63	1,500.59	2,777.07	384.71	290.78	93.93	4.096		
7,000.00	5,857.23	7,041.94	6,046.49	74.23	67.95	-147.50	1,528.50	2,829.10	390.25	294.49	95.76	4.075		
7,100.00	5,935.35	7,141.78	6,127.00	75.56	69.18	-147.39	1,556.42	2,881.13	395.81	298.20	97.60	4.055		
7,200.00	6,013.46	7,241.63	6,207.52	76.89	70.40	-147.27	1,584.33	2,933.15	401.36	301.91	99.45	4.036		
7,300.00	6,091.58	7,341.47	6,288.03	78.22	71.63	-147.16	1,612.25	2,985.18	406.91	305.62	101.29	4.017		
7,400.00	6,169.70	7,441.31	6,368.54	79.55	72.86	-147.05	1,640.16	3,037.21	412.47	309.33	103.13	3.999		
7,500.00	6,247.81	7,541.15	6,449.05	80.88	74.09	-146.94	1,668.08	3,089.24	418.02	313.04	104.98	3.982		
7,600.00	6,325.93	7,640.99	6,529.57	82.21	75.31	-146.84	1,695.99	3,141.27	423.58	316.76	106.83	3.965		
7,700.00	6,404.05	7,740.84	6,610.08	83.54	76.54	-146.73	1,723.90	3,193.30	429.14	320.47	108.68	3.949		
7,800.00	6,482.17	7,840.68	6,690.59	84.87	77.77	-146.63	1,751.82	3,245.33	434.70	324.18	110.53	3.933		
7,900.00	6,560.28	7,940.52	6,771.10	86.20	78.99	-146.54	1,779.73	3,297.36	440.26	327.89	112.38	3.918		
8,000.00	6,638.40	8,040.36	6,851.62	87.53	80.22	-146.44	1,807.65	3,349.39	445.83	331.60	114.23	3.903		
8,100.00	6,716.52	8,140.21	6,932.13	88.86	81.45	-146.35	1,835.56	3,401.42	451.39	335.31	116.09	3.888		
8,200.00	6,794.63	8,240.05	7,012.64	90.20	82.68	-146.26	1,863.48	3,453.45	456.96	339.02	117.94	3.874		
8,300.00	6,872.75	8,360.36	7,111.91	91.53	84.08	-147.67	1,884.89	3,517.55	460.28	343.01	117.27	3.925		
8,400.00	6,950.87	8,471.91	7,205.48	92.86	85.20	-151.66	1,882.33	3,577.90	460.51	348.57	111.94	4.114		
8,415.27	6,962.79	8,487.70	7,218.63	93.06	85.35	-152.43	1,880.21	3,586.38	460.49	349.64	110.86	4.154		
8,500.00	7,028.98	8,568.43	7,284.83	94.19	85.98	-157.10	1,862.74	3,629.02	461.48	357.16	104.32	4.424		
8,600.00	7,107.10	8,648.44	7,347.78	95.52	86.49	-162.86	1,834.67	3,669.54	467.79	371.05	96.74	4.836		
8,647.91	7,144.53	8,681.32	7,372.59	96.16	86.65	-165.50	1,820.17	3,685.49	473.88	380.36	93.52	5.067		
8,650.00	7,146.16	8,682.68	7,373.60	96.18	86.66	-165.89	1,819.53	3,686.14	474.20	380.81	93.39	5.078		
8,700.00	7,185.66	8,714.87	7,397.15	96.84	86.80	-175.52	1,803.64	3,701.28	482.91	392.33	90.58	5.331		
8,750.00	7,225.78	8,746.40	7,419.45	97.47	86.92	174.44	1,786.57	3,715.61	493.46	405.11	88.34	5.586		
8,800.00	7,266.21	8,777.38	7,440.56	98.08	87.00	164.23	1,768.41	3,729.16	505.45	418.95	86.50	5.843		
8,850.00	7,306.63	8,807.89	7,460.52	98.64	87.08	154.13	1,749.23	3,741.98	518.51	433.59	84.93	6.105		
8,900.00	7,346.75	8,838.00	7,479.35	99.17	87.14	144.41	1,729.08	3,754.06	532.31	448.80	83.50	6.375		
8,950.00	7,386.25	8,867.78	7,497.08	99.64	87.17	135.31	1,708.03	3,765.42	546.50	464.33	82.17	6.651		
9,000.00	7,424.84	8,900.00	7,515.20	100.06	87.20	126.85	1,684.05	3,777.03	560.83	479.95	80.88	6.934		
9,050.00	7,462.22	8,926.50	7,529.24	100.42	87.21	119.47	1,663.44	3,786.01	575.01	495.32	79.70	7.215		
9,100.00	7,498.11	8,950.00	7,541.00	100.74	87.21	113.01	1,644.55	3,793.54	588.89	510.22	78.66	7.486		
9,150.00	7,532.24	8,984.38	7,557.02	100.99	87.18	106.99	1,615.91	3,803.77	602.13	524.55	77.57	7.762		
9,200.00	7,564.34	9,013.07	7,569.26	101.19	87.16	101.92	1,591.17	3,811.59	614.69	537.94	76.75	8.009		
9,250.00	7,594.17	9,041.62	7,580.40	101.34	87.12	97.55	1,565.86	3,818.69	626.39	550.24	76.16	8.225		
9,300.00	7,621.50	9,070.07	7,590.43	101.45	87.06	93.81	1,540.03	3,825.07	637.10	561.26	75.85	8.400		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	9,100.00	7,599.81	101.50	87.00	90.63	1,512.23	3,831.03	646.72	570.97	75.76	8.537		
9,400.00	7,667.87	9,126.67	7,607.13	101.51	86.93	88.03	1,487.01	3,835.67	655.15	578.90	76.25	8.592		
9,450.00	7,686.55	9,150.00	7,612.72	101.48	86.88	85.94	1,464.64	3,839.20	662.35	584.84	77.51	8.545		
9,500.00	7,702.04	9,183.02	7,619.31	101.42	86.77	84.20	1,432.56	3,843.34	668.17	589.94	78.23	8.541		
9,550.00	7,714.20	9,211.12	7,623.69	101.33	86.69	82.92	1,404.94	3,846.07	672.65	592.82	79.83	8.426		
9,600.00	7,722.96	9,239.20	7,626.93	101.20	86.59	82.04	1,377.12	3,848.07	675.74	593.91	81.82	8.259		
9,650.00	7,728.24	9,267.25	7,629.01	101.06	86.49	81.55	1,349.17	3,849.32	677.39	593.22	84.17	8.048		
9,699.97	7,730.00	9,303.98	7,630.00	100.90	86.35	81.43	1,312.47	3,849.83	677.71	592.23	85.48	7.928		
9,739.49	7,730.00	9,328.02	7,630.00	100.76	86.26	81.43	1,288.43	3,849.75	677.53	590.14	87.39	7.753		
9,800.00	7,730.00	9,388.53	7,630.00	100.56	86.03	81.43	1,227.93	3,849.55	677.53	590.91	86.62	7.822		
9,900.00	7,730.00	9,488.53	7,630.00	100.24	85.66	81.43	1,127.93	3,849.21	677.53	592.07	85.46	7.928		
10,000.00	7,730.00	9,588.53	7,630.00	99.93	85.32	81.43	1,027.93	3,848.88	677.52	593.09	84.43	8.025		
10,100.00	7,730.00	9,688.53	7,630.00	99.64	84.98	81.43	927.93	3,848.54	677.52	593.99	83.53	8.111		
10,200.00	7,730.00	9,788.53	7,630.00	99.36	84.67	81.43	827.93	3,848.20	677.52	594.74	82.78	8.185		
10,300.00	7,730.00	9,888.53	7,630.00	99.09	84.37	81.43	727.93	3,847.87	677.52	595.35	82.16	8.246		
10,400.00	7,730.00	9,988.53	7,630.00	98.84	84.09	81.43	627.93	3,847.53	677.51	595.82	81.70	8.293		
10,500.00	7,730.00	10,088.53	7,630.00	98.61	83.83	81.43	527.93	3,847.20	677.51	596.13	81.38	8.326		
10,600.00	7,730.00	10,188.53	7,630.00	98.39	83.58	81.43	427.93	3,846.86	677.51	596.30	81.21	8.343		
10,700.00	7,730.00	10,288.53	7,630.00	98.18	83.35	81.43	327.93	3,846.52	677.50	596.31	81.19	8.345		
10,800.00	7,730.00	10,388.53	7,630.00	97.99	83.14	81.43	227.93	3,846.19	677.50	596.18	81.32	8.331		
10,900.00	7,730.00	10,488.53	7,630.00	97.81	82.94	81.43	127.93	3,845.85	677.50	595.89	81.61	8.302		
11,000.00	7,730.00	10,588.53	7,630.00	97.64	82.77	81.43	27.93	3,845.51	677.50	595.46	82.04	8.258		
11,100.00	7,730.00	10,688.53	7,630.00	97.50	82.60	81.43	-72.07	3,845.18	677.49	594.88	82.62	8.201		
11,200.00	7,730.00	10,788.53	7,630.00	97.36	82.46	81.43	-172.07	3,844.84	677.49	594.15	83.34	8.130		
11,300.00	7,730.00	10,888.53	7,630.00	97.24	82.34	81.43	-272.07	3,844.51	677.49	593.29	84.20	8.046		
11,400.00	7,730.00	10,988.53	7,630.00	97.14	82.23	81.43	-372.07	3,844.17	677.49	592.29	85.19	7.952		
11,500.00	7,730.00	11,088.53	7,630.00	97.06	82.15	81.43	-472.06	3,843.83	677.48	591.16	86.32	7.848		
11,600.00	7,730.00	11,188.53	7,630.00	96.98	82.09	81.43	-572.06	3,843.50	677.48	589.91	87.57	7.736		
11,700.00	7,730.00	11,288.53	7,630.00	96.93	82.04	81.43	-672.06	3,843.16	677.48	588.53	88.95	7.617		
11,800.00	7,730.00	11,388.53	7,630.00	96.90	82.02	81.43	-772.06	3,842.83	677.48	587.04	90.44	7.491		
11,900.00	7,730.00	11,488.53	7,630.00	96.88	82.03	81.43	-872.06	3,842.49	677.47	585.44	92.03	7.361		
12,000.00	7,730.00	11,588.53	7,630.00	96.88	82.06	81.43	-972.06	3,842.15	677.47	583.74	93.73	7.228		
12,100.00	7,730.00	11,688.53	7,630.00	96.90	82.11	81.43	-1,072.06	3,841.82	677.47	581.94	95.53	7.091		
12,200.00	7,730.00	11,788.53	7,630.00	96.94	82.20	81.43	-1,172.06	3,841.48	677.47	580.04	97.43	6.954		
12,300.00	7,730.00	11,888.53	7,630.00	97.00	82.31	81.43	-1,272.06	3,841.15	677.46	578.06	99.40	6.815		
12,400.00	7,730.00	11,988.53	7,630.00	97.08	82.46	81.43	-1,372.06	3,840.81	677.46	575.99	101.47	6.677		
12,500.00	7,730.00	12,088.53	7,630.00	97.18	82.64	81.43	-1,472.06	3,840.47	677.46	573.85	103.61	6.539		
12,600.00	7,730.00	12,188.53	7,630.00	97.31	82.86	81.43	-1,572.06	3,840.14	677.46	571.64	105.82	6.402		
12,700.00	7,730.00	12,288.53	7,630.00	97.46	83.11	81.43	-1,672.06	3,839.80	677.45	569.36	108.10	6.267		
12,800.00	7,730.00	12,388.53	7,630.00	97.64	83.41	81.43	-1,772.06	3,839.46	677.45	567.01	110.44	6.134		
12,900.00	7,730.00	12,488.53	7,630.00	97.85	83.75	81.43	-1,872.06	3,839.13	677.45	564.60	112.84	6.003		
13,000.00	7,730.00	12,588.53	7,630.00	98.09	84.13	81.43	-1,972.06	3,838.79	677.45	562.14	115.31	5.875		
13,100.00	7,730.00	12,688.53	7,630.00	98.35	84.56	81.43	-2,072.06	3,838.46	677.44	559.63	117.82	5.750		
13,200.00	7,730.00	12,788.53	7,630.00	98.65	85.04	81.43	-2,172.06	3,838.12	677.44	557.06	120.38	5.627		
13,300.00	7,730.00	12,888.53	7,630.00	98.98	85.57	81.43	-2,272.05	3,837.78	677.44	554.45	122.99	5.508		
13,400.00	7,730.00	12,988.53	7,630.00	99.34	86.15	81.43	-2,372.05	3,837.45	677.44	551.79	125.64	5.392		
13,500.00	7,730.00	13,088.53	7,630.00	99.74	86.79	81.43	-2,472.05	3,837.11	677.43	549.10	128.33	5.279		
13,600.00	7,730.00	13,188.53	7,630.00	100.17	87.47	81.43	-2,572.05	3,836.78	677.43	546.36	131.07	5.169		
13,700.00	7,730.00	13,288.53	7,630.00	100.65	88.21	81.43	-2,672.05	3,836.44	677.43	543.60	133.83	5.062		
13,800.00	7,730.00	13,388.53	7,630.00	101.16	89.00	81.43	-2,772.05	3,836.10	677.43	540.79	136.63	4.958		
13,900.00	7,730.00	13,488.53	7,630.00	101.71	89.84	81.43	-2,872.05	3,835.77	677.42	537.96	139.47	4.857		
14,000.00	7,730.00	13,588.53	7,630.00	102.30	90.73	81.43	-2,972.05	3,835.43	677.42	535.09	142.33	4.760		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	13,688.53	7,630.00	102.93	91.67	81.43	-3,072.05	3,835.09	677.42	532.20	145.22	4.665		
14,200.00	7,730.00	13,788.53	7,630.00	103.60	92.65	81.43	-3,172.05	3,834.76	677.42	529.28	148.14	4.573		
14,300.00	7,730.00	13,888.53	7,630.00	104.32	93.67	81.43	-3,272.05	3,834.42	677.41	526.33	151.08	4.484		
14,400.00	7,730.00	13,988.53	7,630.00	105.07	94.74	81.43	-3,372.05	3,834.09	677.41	523.37	154.04	4.398		
14,500.00	7,730.00	14,088.53	7,630.00	105.86	95.84	81.43	-3,472.05	3,833.75	677.41	520.38	157.03	4.314		
14,600.00	7,730.00	14,188.53	7,630.00	106.70	96.98	81.43	-3,572.05	3,833.41	677.40	517.37	160.04	4.233		
14,700.00	7,730.00	14,288.53	7,630.00	107.57	98.14	81.43	-3,672.05	3,833.08	677.40	514.34	163.07	4.154		
14,800.00	7,730.00	14,388.53	7,630.00	108.48	99.34	81.43	-3,772.05	3,832.74	677.40	511.29	166.11	4.078		
14,900.00	7,730.00	14,488.53	7,630.00	109.43	100.57	81.43	-3,872.05	3,832.41	677.40	508.22	169.18	4.004		
15,000.00	7,730.00	14,588.53	7,630.00	110.42	101.83	81.43	-3,972.04	3,832.07	677.39	505.14	172.26	3.932		
15,100.00	7,730.00	14,688.53	7,630.00	111.43	103.11	81.43	-4,072.04	3,831.73	677.39	502.04	175.36	3.863		
15,200.00	7,730.00	14,788.53	7,630.00	112.49	104.41	81.43	-4,172.04	3,831.40	677.39	498.92	178.47	3.796		
15,300.00	7,730.00	14,888.53	7,630.00	113.57	105.74	81.43	-4,272.04	3,831.06	677.39	495.79	181.59	3.730		
15,400.00	7,730.00	14,988.53	7,630.00	114.68	107.08	81.43	-4,372.04	3,830.72	677.38	492.65	184.73	3.667		
15,500.00	7,730.00	15,088.53	7,630.00	115.82	108.44	81.43	-4,472.04	3,830.39	677.38	489.50	187.88	3.605		
15,600.00	7,730.00	15,188.53	7,630.00	116.99	109.82	81.42	-4,572.04	3,830.05	677.38	486.33	191.05	3.546		
15,700.00	7,730.00	15,288.53	7,630.00	118.19	111.22	81.42	-4,672.04	3,829.72	677.38	483.15	194.23	3.488		
15,800.00	7,730.00	15,388.53	7,630.00	119.41	112.63	81.42	-4,772.04	3,829.38	677.37	479.96	197.41	3.431		
15,900.00	7,730.00	15,488.53	7,630.00	120.65	114.05	81.42	-4,872.04	3,829.04	677.37	476.76	200.61	3.377		
16,000.00	7,730.00	15,588.53	7,630.00	121.91	115.49	81.42	-4,972.04	3,828.71	677.37	473.55	203.82	3.323		
16,100.00	7,730.00	15,688.53	7,630.00	123.20	116.94	81.42	-5,072.04	3,828.37	677.37	470.33	207.04	3.272		
16,200.00	7,730.00	15,788.53	7,630.00	124.50	118.41	81.42	-5,172.04	3,828.04	677.36	467.10	210.26	3.222		
16,300.00	7,730.00	15,888.53	7,630.00	125.82	119.88	81.42	-5,272.04	3,827.70	677.36	463.86	213.50	3.173		
16,400.00	7,730.00	15,988.53	7,630.00	127.16	121.36	81.42	-5,372.04	3,827.36	677.36	460.62	216.74	3.125		
16,500.00	7,730.00	16,088.53	7,630.00	128.52	122.85	81.42	-5,472.04	3,827.03	677.36	457.36	219.99	3.079		
16,600.00	7,730.00	16,188.53	7,630.00	129.89	124.36	81.42	-5,572.04	3,826.69	677.35	454.10	223.25	3.034		
16,700.00	7,730.00	16,288.53	7,630.00	131.27	125.87	81.42	-5,672.04	3,826.36	677.35	450.83	226.52	2.990		
16,800.00	7,730.00	16,388.53	7,630.00	132.67	127.39	81.42	-5,772.03	3,826.02	677.35	447.56	229.79	2.948		
16,900.00	7,730.00	16,488.53	7,630.00	134.09	128.91	81.42	-5,872.03	3,825.68	677.35	444.28	233.07	2.906		
17,000.00	7,730.00	16,588.53	7,630.00	135.51	130.45	81.42	-5,972.03	3,825.35	677.34	440.99	236.36	2.866		
17,100.00	7,730.00	16,688.53	7,630.00	136.95	131.99	81.42	-6,072.03	3,825.01	677.34	437.69	239.65	2.826		
17,200.00	7,730.00	16,788.53	7,630.00	138.40	133.53	81.42	-6,172.03	3,824.67	677.34	434.39	242.95	2.788		
17,300.00	7,730.00	16,888.53	7,630.00	139.85	135.09	81.42	-6,272.03	3,824.34	677.34	431.09	246.25	2.751		
17,400.00	7,730.00	16,988.53	7,630.00	141.32	136.65	81.42	-6,372.03	3,824.00	677.33	427.77	249.56	2.714		
17,500.00	7,730.00	17,088.53	7,630.00	142.80	138.21	81.42	-6,472.03	3,823.67	677.33	424.46	252.87	2.679		
17,600.00	7,730.00	17,188.53	7,630.00	144.28	139.79	81.42	-6,572.03	3,823.33	677.33	421.13	256.19	2.644		
17,700.00	7,730.00	17,288.53	7,630.00	145.78	141.36	81.42	-6,672.03	3,822.99	677.33	417.81	259.52	2.610		
17,800.00	7,730.00	17,388.53	7,630.00	147.28	142.94	81.42	-6,772.03	3,822.66	677.32	414.48	262.85	2.577		
17,900.00	7,730.00	17,488.53	7,630.00	148.79	144.53	81.42	-6,872.03	3,822.32	677.32	411.14	266.18	2.545		
18,000.00	7,730.00	17,588.53	7,630.00	150.31	146.12	81.42	-6,972.03	3,821.99	677.32	407.80	269.52	2.513		
18,100.00	7,730.00	17,688.53	7,630.00	151.83	147.72	81.42	-7,072.03	3,821.65	677.31	404.46	272.86	2.482		
18,200.00	7,730.00	17,788.53	7,630.00	153.37	149.31	81.42	-7,172.03	3,821.31	677.31	401.11	276.21	2.452		
18,300.00	7,730.00	17,888.53	7,630.00	154.90	150.92	81.42	-7,272.03	3,820.98	677.31	397.76	279.55	2.423		
18,400.00	7,730.00	17,988.53	7,630.00	156.45	152.53	81.42	-7,372.03	3,820.64	677.31	394.40	282.91	2.394		
18,500.00	7,730.00	18,088.53	7,630.00	158.00	154.14	81.42	-7,472.03	3,820.30	677.30	391.04	286.26	2.366		
18,600.00	7,730.00	18,188.53	7,630.00	159.55	155.75	81.42	-7,572.02	3,819.97	677.30	387.68	289.63	2.339		
18,700.00	7,730.00	18,288.53	7,630.00	161.11	157.37	81.42	-7,672.02	3,819.63	677.30	384.31	292.99	2.312		
18,800.00	7,730.00	18,388.53	7,630.00	162.68	158.99	81.42	-7,772.02	3,819.30	677.30	380.94	296.36	2.285		
18,900.00	7,730.00	18,488.53	7,630.00	164.25	160.62	81.42	-7,872.02	3,818.96	677.29	377.57	299.73	2.260		
19,000.00	7,730.00	18,588.53	7,630.00	165.83	162.24	81.42	-7,972.02	3,818.62	677.29	374.19	303.10	2.235		
19,100.00	7,730.00	18,688.53	7,630.00	167.41	163.88	81.42	-8,072.02	3,818.29	677.29	370.81	306.47	2.210		
19,200.00	7,730.00	18,788.53	7,630.00	168.99	165.51	81.42	-8,172.02	3,817.95	677.29	367.43	309.85	2.186		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	18,888.53	7,630.00	170.58	167.15	81.42	-8,272.02	3,817.62	677.28	364.05	313.23	2.162	
19,400.00	7,730.00	18,988.53	7,630.00	172.17	168.79	81.42	-8,372.02	3,817.28	677.28	360.66	316.62	2.139	
19,430.54	7,730.00	19,019.06	7,630.00	172.66	169.29	81.42	-8,402.56	3,817.18	677.28	359.63	317.65	2.132 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	0.00	0.00	-90.00	0.00	-10.08	10.08					
100.00	100.00	101.00	101.00	0.13	0.14	-90.00	0.00	-10.08	10.08	9.81	0.27	36.999		
200.00	200.00	201.00	201.00	0.49	0.50	-90.00	0.00	-10.08	10.08	9.09	0.99	10.188		
300.00	300.00	301.00	301.00	0.85	0.85	-90.00	0.00	-10.08	10.08	8.37	1.71	5.907		
400.00	400.00	401.00	401.00	1.21	1.21	-90.00	0.00	-10.08	10.08	7.66	2.42	4.160		
500.00	500.00	501.00	501.00	1.57	1.57	-90.00	0.00	-10.08	10.08	6.94	3.14	3.210 CC, ES		
600.00	599.98	600.98	600.98	1.92	1.93	-158.91	0.00	-10.08	11.69	7.84	3.85	3.034		
700.00	699.84	701.36	701.34	2.28	2.29	-163.49	0.79	-8.47	14.97	10.41	4.56	3.285		
800.00	799.45	801.86	801.70	2.64	2.64	-166.12	3.14	-3.70	18.33	13.07	5.26	3.484		
900.00	898.70	902.48	901.92	3.02	3.01	-167.68	7.04	4.24	21.71	15.75	5.96	3.641		
1,000.00	997.47	1,003.23	1,001.90	3.41	3.38	-168.59	12.50	15.34	25.10	18.43	6.66	3.766		
1,100.00	1,095.62	1,104.09	1,101.49	3.84	3.78	-169.09	19.52	29.62	28.49	21.12	7.37	3.866		
1,200.00	1,193.06	1,205.07	1,200.58	4.29	4.20	-169.31	28.09	47.05	31.86	23.78	8.08	3.944		
1,300.00	1,289.64	1,306.17	1,299.04	4.78	4.66	-169.33	38.21	67.63	35.22	26.43	8.79	4.006		
1,400.00	1,385.27	1,407.39	1,396.75	5.32	5.15	-169.19	49.87	91.35	38.55	29.04	9.51	4.053		
1,500.00	1,479.82	1,508.73	1,493.56	5.90	5.68	-168.95	63.06	118.18	41.86	31.62	10.24	4.086		
1,600.00	1,573.17	1,610.17	1,589.37	6.53	6.27	-168.61	77.77	148.10	45.14	34.15	10.99	4.108		
1,700.00	1,665.21	1,711.74	1,684.04	7.23	6.91	-168.20	93.98	181.09	48.39	36.64	11.75	4.118		
1,800.00	1,755.84	1,813.41	1,777.45	7.98	7.61	-167.72	111.69	217.11	51.61	39.08	12.54	4.117		
1,900.00	1,844.94	1,915.19	1,869.48	8.80	8.37	-167.20	130.87	256.12	54.79	41.45	13.34	4.106		
2,000.00	1,932.39	2,017.08	1,960.00	9.68	9.19	-166.64	151.50	298.09	57.94	43.75	14.18	4.085		
2,100.00	2,018.11	2,119.08	2,048.89	10.63	10.09	-166.04	173.57	342.97	61.04	45.98	15.06	4.054		
2,200.00	2,101.97	2,221.18	2,136.03	11.65	11.06	-165.41	197.04	390.71	64.10	48.13	15.97	4.013		
2,300.00	2,183.88	2,323.38	2,221.30	12.74	12.10	-164.75	221.89	441.25	67.11	50.18	16.94	3.963		
2,400.00	2,263.74	2,425.68	2,304.59	13.90	13.22	-164.07	248.09	494.55	70.08	52.13	17.95	3.904		
2,431.61	2,288.54	2,457.35	2,330.02	14.29	13.58	-163.89	256.42	511.49	71.15	52.82	18.33	3.882		
2,500.00	2,341.97	2,525.69	2,384.89	15.13	14.36	-163.60	274.39	548.05	73.80	54.66	19.15	3.855		
2,600.00	2,420.08	2,625.62	2,465.12	16.37	15.52	-163.22	300.67	601.50	77.69	57.32	20.37	3.814		
2,700.00	2,498.20	2,725.54	2,545.36	17.63	16.69	-162.88	326.95	654.95	81.58	59.97	21.61	3.774		
2,800.00	2,576.32	2,825.46	2,625.59	18.89	17.87	-162.56	353.22	708.40	85.47	62.59	22.88	3.736		
2,900.00	2,654.43	2,925.39	2,705.82	20.17	19.06	-162.28	379.50	761.85	89.37	65.20	24.17	3.698		
3,000.00	2,732.55	3,025.31	2,786.05	21.45	20.26	-162.01	405.78	815.31	93.26	67.80	25.47	3.662		
3,100.00	2,810.67	3,125.23	2,866.28	22.74	21.47	-161.77	432.06	868.76	97.16	70.38	26.78	3.628		
3,200.00	2,888.78	3,225.16	2,946.51	24.03	22.68	-161.55	458.34	922.21	101.06	72.95	28.11	3.595		
3,300.00	2,966.90	3,325.08	3,026.74	25.33	23.89	-161.34	484.62	975.66	104.96	75.51	29.45	3.564		
3,400.00	3,045.02	3,425.00	3,106.97	26.63	25.11	-161.15	510.89	1,029.11	108.87	78.07	30.80	3.535		
3,500.00	3,123.13	3,524.93	3,187.20	27.94	26.33	-160.97	537.17	1,082.56	112.77	80.61	32.16	3.507		
3,600.00	3,201.25	3,624.85	3,267.43	29.24	27.56	-160.81	563.45	1,136.02	116.68	83.15	33.52	3.480		
3,700.00	3,279.37	3,724.77	3,347.67	30.55	28.78	-160.65	589.73	1,189.47	120.58	85.69	34.90	3.455		
3,800.00	3,357.49	3,824.70	3,427.90	31.86	30.01	-160.51	616.01	1,242.92	124.49	88.21	36.28	3.432		
3,900.00	3,435.60	3,924.62	3,508.13	33.18	31.24	-160.37	642.29	1,296.37	128.40	90.74	37.66	3.409		
4,000.00	3,513.72	4,024.54	3,588.36	34.49	32.48	-160.24	668.56	1,349.82	132.30	93.25	39.05	3.388		
4,100.00	3,591.84	4,124.47	3,668.59	35.81	33.71	-160.12	694.84	1,403.27	136.21	95.77	40.45	3.368		
4,200.00	3,669.95	4,224.39	3,748.82	37.12	34.94	-160.01	721.12	1,456.73	140.12	98.28	41.84	3.349		
4,300.00	3,748.07	4,324.31	3,829.05	38.44	36.18	-159.90	747.40	1,510.18	144.03	100.79	43.25	3.330		
4,400.00	3,826.19	4,424.24	3,909.28	39.76	37.42	-159.80	773.68	1,563.63	147.94	103.29	44.65	3.313		
4,500.00	3,904.30	4,524.16	3,989.51	41.08	38.66	-159.70	799.95	1,617.08	151.85	105.79	46.06	3.297		
4,600.00	3,982.42	4,624.08	4,069.74	42.40	39.90	-159.61	826.23	1,670.53	155.77	108.29	47.48	3.281		
4,700.00	4,060.54	4,724.00	4,149.98	43.72	41.14	-159.52	852.51	1,723.98	159.68	110.78	48.89	3.266		
4,800.00	4,138.66	4,823.93	4,230.21	45.05	42.38	-159.43	878.79	1,777.44	163.59	113.28	50.31	3.252		
4,900.00	4,216.77	4,923.85	4,310.44	46.37	43.62	-159.35	905.07	1,830.89	167.50	115.77	51.73	3.238		
5,000.00	4,294.89	5,023.77	4,390.67	47.69	44.86	-159.28	931.35	1,884.34	171.41	118.26	53.16	3.225		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,123.70	4,470.90	49.02	46.10	-159.21	957.62	1,937.79	175.33	120.75	54.58	3.212		
5,200.00	4,451.12	5,223.62	4,551.13	50.34	47.35	-159.14	983.90	1,991.24	179.24	123.23	56.01	3.200		
5,300.00	4,529.24	5,323.54	4,631.36	51.67	48.59	-159.07	1,010.18	2,044.70	183.15	125.72	57.44	3.189		
5,400.00	4,607.36	5,423.47	4,711.59	52.99	49.84	-159.01	1,036.46	2,098.15	187.07	128.20	58.87	3.178		
5,500.00	4,685.47	5,523.39	4,791.82	54.32	51.08	-158.94	1,062.74	2,151.60	190.98	130.68	60.30	3.167		
5,600.00	4,763.59	5,623.31	4,872.05	55.64	52.32	-158.89	1,089.02	2,205.05	194.90	133.16	61.74	3.157		
5,700.00	4,841.71	5,723.24	4,952.28	56.97	53.57	-158.83	1,115.29	2,258.50	198.81	135.64	63.17	3.147		
5,800.00	4,919.83	5,823.16	5,032.52	58.30	54.82	-158.78	1,141.57	2,311.95	202.73	138.12	64.61	3.138		
5,900.00	4,997.94	5,923.08	5,112.75	59.62	56.06	-158.72	1,167.85	2,365.41	206.64	140.59	66.05	3.129		
6,000.00	5,076.06	6,023.01	5,192.98	60.95	57.31	-158.67	1,194.13	2,418.86	210.55	143.07	67.48	3.120		
6,100.00	5,154.18	6,122.93	5,273.21	62.28	58.55	-158.62	1,220.41	2,472.31	214.47	145.55	68.92	3.112		
6,200.00	5,232.29	6,222.85	5,353.44	63.61	59.80	-158.58	1,246.68	2,525.76	218.38	148.02	70.37	3.104		
6,300.00	5,310.41	6,322.78	5,433.67	64.93	61.05	-158.53	1,272.96	2,579.21	222.30	150.49	71.81	3.096		
6,400.00	5,388.53	6,422.70	5,513.90	66.26	62.30	-158.49	1,299.24	2,632.66	226.22	152.97	73.25	3.088		
6,500.00	5,466.64	6,522.62	5,594.13	67.59	63.54	-158.45	1,325.52	2,686.12	230.13	155.44	74.69	3.081		
6,600.00	5,544.76	6,622.54	5,674.36	68.92	64.79	-158.41	1,351.80	2,739.57	234.05	157.91	76.14	3.074		
6,700.00	5,622.88	6,722.47	5,754.59	70.25	66.04	-158.37	1,378.08	2,793.02	237.96	160.38	77.58	3.067		
6,800.00	5,701.00	6,822.39	5,834.83	71.58	67.29	-158.33	1,404.35	2,846.47	241.88	162.85	79.03	3.061		
6,900.00	5,779.11	6,922.31	5,915.06	72.91	68.53	-158.29	1,430.63	2,899.92	245.79	165.32	80.48	3.054		
7,000.00	5,857.23	7,022.24	5,995.29	74.23	69.78	-158.26	1,456.91	2,953.37	249.71	167.78	81.93	3.048		
7,100.00	5,935.35	7,122.16	6,075.52	75.56	71.03	-158.22	1,483.19	3,006.83	253.63	170.25	83.37	3.042		
7,200.00	6,013.46	7,222.08	6,155.75	76.89	72.28	-158.19	1,509.47	3,060.28	257.54	172.72	84.82	3.036		
7,300.00	6,091.58	7,322.01	6,235.98	78.22	73.53	-158.16	1,535.75	3,113.73	261.46	175.19	86.27	3.031		
7,400.00	6,169.70	7,421.93	6,316.21	79.55	74.78	-158.13	1,562.02	3,167.18	265.38	177.65	87.72	3.025		
7,500.00	6,247.81	7,521.85	6,396.44	80.88	76.03	-158.09	1,588.30	3,220.63	269.29	180.12	89.17	3.020		
7,600.00	6,325.93	7,621.78	6,476.67	82.21	77.27	-158.07	1,614.58	3,274.08	273.21	182.58	90.62	3.015		
7,700.00	6,404.05	7,721.70	6,556.90	83.54	78.52	-158.04	1,640.86	3,327.54	277.13	185.05	92.08	3.010		
7,800.00	6,482.17	7,821.62	6,637.14	84.87	79.77	-158.01	1,667.14	3,380.99	281.04	187.51	93.53	3.005		
7,900.00	6,560.28	7,921.55	6,717.37	86.20	81.02	-157.98	1,693.42	3,434.44	284.96	189.98	94.98	3.000		
8,000.00	6,638.40	8,021.47	6,797.60	87.53	82.27	-157.95	1,719.69	3,487.89	288.88	192.44	96.43	2.996		
8,100.00	6,716.52	8,121.39	6,877.83	88.86	83.52	-157.93	1,745.97	3,541.34	292.79	194.91	97.89	2.991		
8,200.00	6,794.63	8,221.32	6,958.06	90.20	84.77	-157.90	1,772.25	3,594.80	296.71	197.37	99.34	2.987		
8,300.00	6,872.75	8,321.24	7,038.29	91.53	86.02	-157.88	1,798.53	3,648.25	300.63	199.83	100.80	2.983		
8,400.00	6,950.87	8,421.16	7,118.52	92.86	87.27	-157.86	1,824.81	3,701.70	304.55	202.29	102.25	2.978		
8,500.00	7,028.98	8,521.09	7,198.75	94.19	88.52	-157.83	1,851.08	3,755.15	308.46	204.76	103.71	2.974		
8,600.00	7,107.10	8,621.26	7,279.23	95.52	89.77	-157.85	1,877.22	3,808.76	312.37	207.28	105.09	2.972		
8,647.91	7,144.53	8,669.66	7,318.73	96.16	90.36	-158.45	1,886.67	3,835.07	314.17	209.38	104.79	2.998		
8,650.00	7,146.16	8,671.76	7,320.46	96.18	90.38	-158.75	1,886.99	3,836.22	314.25	209.50	104.75	3.000		
8,700.00	7,185.66	8,721.67	7,361.76	96.84	90.96	-166.11	1,892.32	3,863.71	316.18	212.36	103.82	3.045		
8,750.00	7,225.78	8,771.12	7,402.90	97.47	91.51	-173.90	1,893.33	3,891.08	318.23	215.33	102.90	3.093		
8,800.00	7,266.21	8,820.11	7,443.60	98.08	92.00	178.10	1,890.12	3,918.13	320.39	218.36	102.03	3.140		
8,850.00	7,306.63	8,868.67	7,483.57	98.64	92.45	170.13	1,882.84	3,944.70	322.62	221.38	101.24	3.187		
8,900.00	7,346.75	8,916.82	7,522.57	99.17	92.85	162.44	1,871.63	3,970.60	324.92	224.36	100.56	3.231		
8,950.00	7,386.25	8,964.58	7,560.35	99.64	93.20	155.23	1,856.66	3,995.67	327.25	227.25	99.99	3.273		
9,000.00	7,424.84	9,011.98	7,596.69	100.06	93.50	148.64	1,838.13	4,019.78	329.58	230.03	99.55	3.311		
9,050.00	7,462.22	9,059.05	7,631.40	100.42	93.75	142.74	1,816.22	4,042.80	331.88	232.67	99.21	3.345		
9,100.00	7,498.11	9,105.81	7,664.29	100.74	93.95	137.52	1,791.15	4,064.59	334.13	235.13	99.00	3.375		
9,150.00	7,532.24	9,152.29	7,695.19	100.99	94.11	132.97	1,763.13	4,085.05	336.31	237.41	98.90	3.401		
9,200.00	7,564.34	9,198.51	7,723.95	101.19	94.22	129.03	1,732.37	4,104.07	338.38	239.48	98.90	3.422		
9,250.00	7,594.17	9,244.50	7,750.43	101.34	94.29	125.65	1,699.10	4,121.57	340.31	241.31	99.00	3.437		
9,300.00	7,621.50	9,290.29	7,774.51	101.45	94.33	122.78	1,663.56	4,137.47	342.10	242.89	99.21	3.448		
9,350.00	7,646.13	9,335.90	7,796.07	101.50	94.33	120.36	1,625.98	4,151.68	343.71	244.20	99.51	3.454		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,381.37	7,815.03	101.51	94.30	118.35	1,586.59	4,164.15	345.13	245.22	99.91	3.454		
9,450.00	7,686.55	9,426.71	7,831.28	101.48	94.24	116.73	1,545.64	4,174.83	346.34	245.93	100.41	3.449		
9,500.00	7,702.04	9,471.96	7,844.77	101.42	94.16	115.45	1,503.37	4,183.66	347.33	246.33	101.00	3.439		
9,550.00	7,714.20	9,517.15	7,855.43	101.33	94.05	114.50	1,460.03	4,190.60	348.09	246.42	101.67	3.424		
9,600.00	7,722.96	9,562.29	7,863.20	101.20	93.93	113.86	1,415.86	4,195.62	348.60	246.19	102.41	3.404		
9,650.00	7,728.24	9,607.41	7,868.06	101.06	93.78	113.52	1,371.11	4,198.70	348.87	245.67	103.21	3.380		
9,699.97	7,730.00	9,652.52	7,869.97	100.90	93.63	113.47	1,326.07	4,199.82	348.89	244.85	104.04	3.353		
9,736.30	7,730.00	9,688.13	7,870.00	100.77	93.50	113.48	1,290.46	4,199.72	348.89	244.85	104.04	3.353		
9,800.00	7,730.00	9,751.84	7,870.00	100.56	93.27	113.48	1,226.75	4,199.50	348.89	245.10	103.78	3.362		
9,900.00	7,730.00	9,851.84	7,870.00	100.24	92.93	113.48	1,126.75	4,199.17	348.88	245.42	103.46	3.372		
10,000.00	7,730.00	9,951.84	7,870.00	99.93	92.61	113.48	1,026.75	4,198.83	348.88	245.64	103.24	3.379		
10,100.00	7,730.00	10,051.84	7,870.00	99.64	92.30	113.48	926.76	4,198.49	348.88	245.75	103.13	3.383		
10,200.00	7,730.00	10,151.84	7,870.00	99.36	92.00	113.48	826.76	4,198.15	348.88	245.75	103.13	3.383		
10,300.00	7,730.00	10,251.84	7,870.00	99.09	91.73	113.48	726.76	4,197.82	348.88	245.65	103.23	3.380		
10,400.00	7,730.00	10,351.84	7,870.00	98.84	91.46	113.48	626.76	4,197.48	348.88	245.44	103.43	3.373		
10,500.00	7,730.00	10,451.84	7,870.00	98.61	91.22	113.48	526.76	4,197.14	348.88	245.13	103.74	3.363		
10,600.00	7,730.00	10,551.84	7,870.00	98.39	90.99	113.48	426.76	4,196.80	348.88	244.72	104.16	3.349		
10,700.00	7,730.00	10,651.84	7,870.00	98.18	90.77	113.48	326.76	4,196.47	348.87	244.20	104.68	3.333		
10,800.00	7,730.00	10,751.84	7,870.00	97.99	90.57	113.48	226.76	4,196.13	348.87	243.58	105.29	3.313		
10,900.00	7,730.00	10,851.84	7,870.00	97.81	90.39	113.48	126.76	4,195.79	348.87	242.86	106.01	3.291		
11,000.00	7,730.00	10,951.84	7,870.00	97.64	90.22	113.48	26.76	4,195.46	348.87	242.04	106.83	3.266		
11,100.00	7,730.00	11,051.84	7,870.00	97.50	90.07	113.48	-73.24	4,195.12	348.87	241.13	107.74	3.238		
11,200.00	7,730.00	11,151.84	7,870.00	97.36	89.93	113.48	-173.24	4,194.78	348.87	240.13	108.74	3.208		
11,300.00	7,730.00	11,251.84	7,870.00	97.24	89.82	113.48	-273.24	4,194.44	348.87	239.03	109.83	3.176		
11,400.00	7,730.00	11,351.84	7,870.00	97.14	89.72	113.48	-373.24	4,194.11	348.87	237.85	111.01	3.143		
11,500.00	7,730.00	11,451.84	7,870.00	97.06	89.64	113.48	-473.24	4,193.77	348.86	236.59	112.28	3.107		
11,600.00	7,730.00	11,551.84	7,870.00	96.98	89.57	113.48	-573.24	4,193.43	348.86	235.24	113.62	3.070		
11,700.00	7,730.00	11,651.84	7,870.00	96.93	89.53	113.48	-673.24	4,193.09	348.86	233.81	115.05	3.032		
11,800.00	7,730.00	11,751.84	7,870.00	96.90	89.50	113.48	-773.24	4,192.76	348.86	232.31	116.55	2.993		
11,900.00	7,730.00	11,851.84	7,870.00	96.88	89.50	113.48	-873.23	4,192.42	348.86	230.73	118.13	2.953		
12,000.00	7,730.00	11,951.84	7,870.00	96.88	89.52	113.48	-973.23	4,192.08	348.86	229.08	119.78	2.913		
12,100.00	7,730.00	12,051.84	7,870.00	96.90	89.56	113.48	-1,073.23	4,191.74	348.86	227.37	121.49	2.872		
12,200.00	7,730.00	12,151.84	7,870.00	96.94	89.62	113.48	-1,173.23	4,191.41	348.86	225.59	123.27	2.830		
12,300.00	7,730.00	12,251.84	7,870.00	97.00	89.71	113.48	-1,273.23	4,191.07	348.85	223.75	125.11	2.788		
12,400.00	7,730.00	12,351.84	7,870.00	97.08	89.83	113.48	-1,373.23	4,190.73	348.85	221.85	127.01	2.747		
12,500.00	7,730.00	12,451.84	7,870.00	97.18	89.97	113.48	-1,473.23	4,190.39	348.85	219.89	128.96	2.705		
12,600.00	7,730.00	12,551.84	7,870.00	97.31	90.14	113.48	-1,573.23	4,190.06	348.85	217.88	130.97	2.664		
12,700.00	7,730.00	12,651.84	7,870.00	97.46	90.35	113.48	-1,673.23	4,189.72	348.85	215.82	133.03	2.622		
12,800.00	7,730.00	12,751.84	7,870.00	97.64	90.58	113.48	-1,773.23	4,189.38	348.85	213.70	135.14	2.581		
12,900.00	7,730.00	12,851.84	7,870.00	97.85	90.85	113.48	-1,873.23	4,189.05	348.85	211.55	137.30	2.541		
13,000.00	7,730.00	12,951.84	7,870.00	98.09	91.15	113.48	-1,973.23	4,188.71	348.85	209.34	139.50	2.501		
13,100.00	7,730.00	13,051.84	7,870.00	98.35	91.50	113.48	-2,073.23	4,188.37	348.84	207.09	141.75	2.461		
13,200.00	7,730.00	13,151.84	7,870.00	98.65	91.88	113.48	-2,173.23	4,188.03	348.84	204.81	144.04	2.422		
13,300.00	7,730.00	13,251.84	7,870.00	98.98	92.30	113.48	-2,273.23	4,187.70	348.84	202.48	146.36	2.383		
13,400.00	7,730.00	13,351.84	7,870.00	99.34	92.76	113.48	-2,373.23	4,187.36	348.84	200.12	148.72	2.346		
13,500.00	7,730.00	13,451.84	7,870.00	99.74	93.27	113.48	-2,473.23	4,187.02	348.84	197.72	151.12	2.308		
13,600.00	7,730.00	13,551.84	7,870.00	100.17	93.82	113.48	-2,573.23	4,186.68	348.84	195.29	153.55	2.272		
13,700.00	7,730.00	13,651.84	7,870.00	100.65	94.41	113.48	-2,673.22	4,186.35	348.84	192.82	156.01	2.236		
13,800.00	7,730.00	13,751.84	7,870.00	101.16	95.06	113.48	-2,773.22	4,186.01	348.84	190.33	158.51	2.201		
13,900.00	7,730.00	13,851.84	7,870.00	101.71	95.74	113.48	-2,873.22	4,185.67	348.83	187.81	161.03	2.166		
14,000.00	7,730.00	13,951.84	7,870.00	102.30	96.47	113.48	-2,973.22	4,185.33	348.83	185.25	163.58	2.132		
14,100.00	7,730.00	14,051.84	7,870.00	102.93	97.25	113.48	-3,073.22	4,185.00	348.83	182.68	166.16	2.099		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	14,151.84	7,870.00	103.60	98.07	113.48	-3,173.22	4,184.66	348.83	180.07	168.76	2.067		
14,300.00	7,730.00	14,251.84	7,870.00	104.32	98.94	113.48	-3,273.22	4,184.32	348.83	177.44	171.38	2.035		
14,400.00	7,730.00	14,351.84	7,870.00	105.07	99.84	113.48	-3,373.22	4,183.98	348.83	174.79	174.03	2.004		
14,500.00	7,730.00	14,451.84	7,870.00	105.86	100.79	113.48	-3,473.22	4,183.65	348.83	172.12	176.71	1.974		
14,600.00	7,730.00	14,551.84	7,870.00	106.70	101.78	113.48	-3,573.22	4,183.31	348.83	169.43	179.40	1.944		
14,700.00	7,730.00	14,651.84	7,870.00	107.57	102.80	113.48	-3,673.22	4,182.97	348.82	166.71	182.11	1.915		
14,800.00	7,730.00	14,751.84	7,870.00	108.48	103.86	113.48	-3,773.22	4,182.64	348.82	163.98	184.84	1.887		
14,900.00	7,730.00	14,851.84	7,870.00	109.43	104.95	113.48	-3,873.22	4,182.30	348.82	161.23	187.59	1.859		
15,000.00	7,730.00	14,951.84	7,870.00	110.42	106.08	113.48	-3,973.22	4,181.96	348.82	158.46	190.36	1.832		
15,100.00	7,730.00	15,051.84	7,870.00	111.43	107.24	113.48	-4,073.22	4,181.62	348.82	155.68	193.14	1.806		
15,200.00	7,730.00	15,151.84	7,870.00	112.49	108.42	113.48	-4,173.22	4,181.29	348.82	152.88	195.94	1.780		
15,300.00	7,730.00	15,251.84	7,870.00	113.57	109.63	113.48	-4,273.22	4,180.95	348.82	150.06	198.76	1.755		
15,400.00	7,730.00	15,351.84	7,870.00	114.68	110.87	113.48	-4,373.21	4,180.61	348.82	147.23	201.59	1.730		
15,500.00	7,730.00	15,451.84	7,870.00	115.82	112.13	113.48	-4,473.21	4,180.27	348.81	144.38	204.43	1.706		
15,600.00	7,730.00	15,551.84	7,870.00	116.99	113.41	113.48	-4,573.21	4,179.94	348.81	141.52	207.29	1.683		
15,700.00	7,730.00	15,651.84	7,870.00	118.19	114.71	113.48	-4,673.21	4,179.60	348.81	138.65	210.16	1.660		
15,800.00	7,730.00	15,751.84	7,870.00	119.41	116.03	113.48	-4,773.21	4,179.26	348.81	135.76	213.05	1.637		
15,900.00	7,730.00	15,851.84	7,870.00	120.65	117.37	113.48	-4,873.21	4,178.92	348.81	132.87	215.94	1.615		
16,000.00	7,730.00	15,951.84	7,870.00	121.91	118.73	113.48	-4,973.21	4,178.59	348.81	129.96	218.85	1.594		
16,100.00	7,730.00	16,051.84	7,870.00	123.20	120.10	113.48	-5,073.21	4,178.25	348.81	127.04	221.77	1.573		
16,200.00	7,730.00	16,151.84	7,870.00	124.50	121.49	113.48	-5,173.21	4,177.91	348.81	124.11	224.70	1.552		
16,300.00	7,730.00	16,251.84	7,870.00	125.82	122.89	113.48	-5,273.21	4,177.57	348.80	121.17	227.64	1.532		
16,400.00	7,730.00	16,351.84	7,870.00	127.16	124.31	113.48	-5,373.21	4,177.24	348.80	118.22	230.59	1.513		
16,500.00	7,730.00	16,451.84	7,870.00	128.52	125.74	113.48	-5,473.21	4,176.90	348.80	115.26	233.54	1.494 Level 3		
16,600.00	7,730.00	16,551.84	7,870.00	129.89	127.18	113.48	-5,573.21	4,176.56	348.80	112.29	236.51	1.475 Level 3		
16,700.00	7,730.00	16,651.84	7,870.00	131.27	128.63	113.49	-5,673.21	4,176.23	348.80	109.31	239.49	1.456 Level 3		
16,800.00	7,730.00	16,751.84	7,870.00	132.67	130.10	113.49	-5,773.21	4,175.89	348.80	106.33	242.47	1.439 Level 3		
16,900.00	7,730.00	16,851.84	7,870.00	134.09	131.57	113.49	-5,873.21	4,175.55	348.80	103.33	245.47	1.421 Level 3		
17,000.00	7,730.00	16,951.84	7,870.00	135.51	133.05	113.49	-5,973.21	4,175.21	348.80	100.33	248.47	1.404 Level 3		
17,100.00	7,730.00	17,051.84	7,870.00	136.95	134.54	113.49	-6,073.21	4,174.88	348.79	97.32	251.47	1.387 Level 3		
17,200.00	7,730.00	17,151.84	7,870.00	138.40	136.05	113.49	-6,173.20	4,174.54	348.79	94.30	254.49	1.371 Level 3		
17,300.00	7,730.00	17,251.84	7,870.00	139.85	137.55	113.49	-6,273.20	4,174.20	348.79	91.28	257.51	1.354 Level 3		
17,400.00	7,730.00	17,351.84	7,870.00	141.32	139.07	113.49	-6,373.20	4,173.86	348.79	88.25	260.54	1.339 Level 3		
17,500.00	7,730.00	17,451.84	7,870.00	142.80	140.59	113.49	-6,473.20	4,173.53	348.79	85.21	263.58	1.323 Level 3		
17,600.00	7,730.00	17,551.84	7,870.00	144.28	142.12	113.49	-6,573.20	4,173.19	348.79	82.17	266.62	1.308 Level 3		
17,700.00	7,730.00	17,651.84	7,870.00	145.78	143.66	113.49	-6,673.20	4,172.85	348.79	79.12	269.67	1.293 Level 3		
17,800.00	7,730.00	17,751.84	7,870.00	147.28	145.21	113.49	-6,773.20	4,172.51	348.79	76.06	272.72	1.279 Level 3		
17,900.00	7,730.00	17,851.84	7,870.00	148.79	146.76	113.49	-6,873.20	4,172.18	348.78	73.00	275.78	1.265 Level 3		
18,000.00	7,730.00	17,951.84	7,870.00	150.31	148.31	113.49	-6,973.20	4,171.84	348.78	69.93	278.85	1.251 Level 3		
18,100.00	7,730.00	18,051.84	7,870.00	151.83	149.87	113.49	-7,073.20	4,171.50	348.78	66.86	281.92	1.237 Level 2		
18,200.00	7,730.00	18,151.84	7,870.00	153.37	151.44	113.49	-7,173.20	4,171.16	348.78	63.78	285.00	1.224 Level 2		
18,300.00	7,730.00	18,251.84	7,870.00	154.90	153.01	113.49	-7,273.20	4,170.83	348.78	60.70	288.08	1.211 Level 2		
18,400.00	7,730.00	18,351.84	7,870.00	156.45	154.59	113.49	-7,373.20	4,170.49	348.78	57.62	291.16	1.198 Level 2		
18,500.00	7,730.00	18,451.84	7,870.00	158.00	156.17	113.49	-7,473.20	4,170.15	348.78	54.52	294.25	1.185 Level 2		
18,600.00	7,730.00	18,551.84	7,870.00	159.55	157.75	113.49	-7,573.20	4,169.81	348.78	51.43	297.35	1.173 Level 2		
18,700.00	7,730.00	18,651.84	7,870.00	161.11	159.34	113.49	-7,673.20	4,169.48	348.77	48.33	300.45	1.161 Level 2		
18,800.00	7,730.00	18,751.84	7,870.00	162.68	160.94	113.49	-7,773.20	4,169.14	348.77	45.22	303.55	1.149 Level 2		
18,900.00	7,730.00	18,851.84	7,870.00	164.25	162.54	113.49	-7,873.20	4,168.80	348.77	42.11	306.66	1.137 Level 2		
19,000.00	7,730.00	18,951.84	7,870.00	165.83	164.14	113.49	-7,973.19	4,168.47	348.77	39.00	309.77	1.126 Level 2		
19,100.00	7,730.00	19,051.84	7,870.00	167.41	165.75	113.49	-8,073.19	4,168.13	348.77	35.88	312.89	1.115 Level 2		
19,200.00	7,730.00	19,151.84	7,870.00	168.99	167.36	113.49	-8,173.19	4,167.79	348.77	32.76	316.01	1.104 Level 2		
19,300.00	7,730.00	19,251.84	7,870.00	170.58	168.97	113.49	-8,273.19	4,167.45	348.77	29.64	319.13	1.093 Level 2		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	19,351.84	7,870.00	172.17	170.58	113.49	-8,373.19	4,167.12	348.77	26.51	322.26	1.082 Level 2	
19,430.54	7,730.00	19,382.37	7,870.00	172.66	171.08	113.49	-8,403.73	4,167.01	348.77	25.55	323.21	1.079 Level 2, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	10.08	10.08					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	10.08	10.08	9.81	0.27	37.493		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	10.08	10.08	9.09	0.99	10.225		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	10.08	10.08	8.38	1.70	5.920		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	10.08	10.08	7.66	2.42	4.166 CC		
500.00	500.00	499.64	499.62	1.57	1.56	86.64	0.68	11.67	11.70	8.57	3.13	3.736		
600.00	599.98	599.14	598.97	1.92	1.92	16.93	2.73	16.44	15.02	11.18	3.83	3.918		
700.00	699.84	698.51	697.97	2.28	2.28	14.42	6.14	24.35	18.39	13.87	4.53	4.062		
800.00	799.45	797.77	796.50	2.64	2.66	12.91	10.89	35.41	21.79	16.56	5.22	4.171		
900.00	898.70	896.92	894.43	3.02	3.05	12.00	16.99	49.57	25.18	19.26	5.92	4.253		
1,000.00	997.47	995.95	991.66	3.41	3.48	11.49	24.41	66.82	28.56	21.95	6.62	4.316		
1,100.00	1,095.62	1,094.86	1,088.07	3.84	3.93	11.23	33.14	87.11	31.93	24.61	7.32	4.362		
1,200.00	1,193.06	1,193.66	1,183.55	4.29	4.43	11.16	43.17	110.43	35.27	27.24	8.02	4.395		
1,300.00	1,289.64	1,292.36	1,278.00	4.78	4.96	11.23	54.48	136.72	38.58	29.84	8.74	4.415		
1,400.00	1,385.27	1,390.94	1,371.30	5.32	5.55	11.40	67.05	165.95	41.86	32.40	9.46	4.424		
1,500.00	1,479.82	1,489.42	1,463.35	5.90	6.18	11.66	80.87	198.08	45.10	34.91	10.20	4.423		
1,600.00	1,573.17	1,587.79	1,554.05	6.53	6.87	11.98	95.92	233.06	48.31	37.36	10.95	4.413		
1,700.00	1,665.21	1,686.06	1,643.29	7.23	7.61	12.35	112.16	270.83	51.48	39.76	11.71	4.395		
1,800.00	1,755.84	1,784.22	1,730.99	7.98	8.42	12.77	129.60	311.35	54.60	42.10	12.50	4.367		
1,900.00	1,844.94	1,882.29	1,817.03	8.80	9.29	13.23	148.18	354.56	57.68	44.36	13.32	4.332		
2,000.00	1,932.39	1,980.27	1,901.34	9.68	10.22	13.72	167.90	400.41	60.71	46.55	14.16	4.288		
2,100.00	2,018.11	2,078.15	1,983.81	10.63	11.22	14.23	188.73	448.83	63.69	48.66	15.04	4.236		
2,200.00	2,101.97	2,175.94	2,064.36	11.65	12.29	14.77	210.64	499.76	66.62	50.67	15.95	4.176		
2,300.00	2,183.88	2,273.64	2,142.90	12.74	13.42	15.34	233.60	553.14	69.50	52.59	16.91	4.109		
2,400.00	2,263.74	2,371.26	2,219.34	13.90	14.63	15.92	257.59	608.90	72.33	54.40	17.92	4.035		
2,431.61	2,288.54	2,402.10	2,243.06	14.29	15.01	16.11	265.38	627.01	73.21	54.95	18.25	4.011		
2,500.00	2,341.97	2,469.98	2,294.77	15.13	15.90	16.44	282.75	667.40	75.48	56.42	19.07	3.958		
2,600.00	2,420.08	2,569.92	2,370.85	16.37	17.22	16.89	308.36	726.93	78.91	58.57	20.34	3.880		
2,700.00	2,498.20	2,669.86	2,446.93	17.63	18.55	17.29	333.97	786.46	82.34	60.71	21.64	3.806		
2,800.00	2,576.32	2,769.80	2,523.01	18.89	19.89	17.67	359.58	845.99	85.78	62.82	22.96	3.736		
2,900.00	2,654.43	2,869.74	2,599.09	20.17	21.24	18.01	385.18	905.52	89.22	64.92	24.30	3.671		
3,000.00	2,732.55	2,969.68	2,675.17	21.45	22.60	18.33	410.79	965.05	92.66	67.00	25.66	3.611		
3,100.00	2,810.67	3,069.61	2,751.25	22.74	23.96	18.62	436.40	1,024.58	96.11	69.07	27.04	3.554		
3,200.00	2,888.78	3,169.55	2,827.33	24.03	25.33	18.90	462.01	1,084.11	99.56	71.13	28.43	3.502		
3,300.00	2,966.90	3,269.49	2,903.41	25.33	26.70	19.16	487.62	1,143.65	103.01	73.17	29.84	3.453		
3,400.00	3,045.02	3,369.43	2,979.49	26.63	28.07	19.40	513.22	1,203.18	106.46	75.21	31.25	3.407		
3,500.00	3,123.13	3,469.37	3,055.57	27.94	29.45	19.62	538.83	1,262.71	109.91	77.23	32.68	3.363		
3,600.00	3,201.25	3,569.31	3,131.65	29.24	30.82	19.83	564.44	1,322.24	113.37	79.25	34.11	3.323		
3,700.00	3,279.37	3,669.25	3,207.73	30.55	32.21	20.03	590.05	1,381.77	116.82	81.26	35.56	3.285		
3,800.00	3,357.49	3,769.19	3,283.81	31.86	33.59	20.22	615.65	1,441.30	120.28	83.27	37.01	3.250		
3,900.00	3,435.60	3,869.13	3,359.89	33.18	34.97	20.40	641.26	1,500.83	123.74	85.27	38.47	3.217		
4,000.00	3,513.72	3,969.07	3,435.97	34.49	36.36	20.57	666.87	1,560.36	127.20	87.26	39.94	3.185		
4,100.00	3,591.84	4,069.01	3,512.05	35.81	37.75	20.72	692.48	1,619.89	130.66	89.25	41.41	3.156		
4,200.00	3,669.95	4,168.95	3,588.13	37.12	39.13	20.87	718.09	1,679.43	134.12	91.24	42.88	3.128		
4,300.00	3,748.07	4,268.89	3,664.21	38.44	40.52	21.02	743.69	1,738.96	137.59	93.22	44.37	3.101		
4,400.00	3,826.19	4,368.83	3,740.29	39.76	41.91	21.15	769.30	1,798.49	141.05	95.20	45.85	3.076		
4,500.00	3,904.30	4,468.77	3,816.37	41.08	43.31	21.28	794.91	1,858.02	144.51	97.17	47.34	3.053		
4,600.00	3,982.42	4,568.71	3,892.45	42.40	44.70	21.41	820.52	1,917.55	147.98	99.14	48.84	3.030		
4,700.00	4,060.54	4,668.65	3,968.53	43.72	46.09	21.52	846.13	1,977.08	151.44	101.11	50.34	3.009		
4,800.00	4,138.66	4,768.59	4,044.61	45.05	47.48	21.64	871.73	2,036.61	154.91	103.07	51.84	2.988		
4,900.00	4,216.77	4,868.53	4,120.69	46.37	48.88	21.74	897.34	2,096.14	158.38	105.04	53.34	2.969		
5,000.00	4,294.89	4,968.46	4,196.77	47.69	50.27	21.85	922.95	2,155.67	161.85	107.00	54.85	2.951		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,068.40	4,272.85	49.02	51.67	21.94	948.56	2,215.21	165.31	108.95	56.36	2.933		
5,200.00	4,451.12	5,168.34	4,348.93	50.34	53.06	22.04	974.17	2,274.74	168.78	110.91	57.87	2.916		
5,300.00	4,529.24	5,268.28	4,425.01	51.67	54.46	22.13	999.77	2,334.27	172.25	112.86	59.39	2.900		
5,400.00	4,607.36	5,368.22	4,501.09	52.99	55.86	22.22	1,025.38	2,393.80	175.72	114.82	60.91	2.885		
5,500.00	4,685.47	5,468.16	4,577.18	54.32	57.25	22.30	1,050.99	2,453.33	179.19	116.77	62.43	2.870		
5,600.00	4,763.59	5,568.10	4,653.26	55.64	58.65	22.38	1,076.60	2,512.86	182.66	118.71	63.95	2.856		
5,700.00	4,841.71	5,668.04	4,729.34	56.97	60.05	22.46	1,102.21	2,572.39	186.13	120.66	65.47	2.843		
5,800.00	4,919.83	5,767.98	4,805.42	58.30	61.44	22.53	1,127.81	2,631.92	189.60	122.61	67.00	2.830		
5,900.00	4,997.94	5,867.92	4,881.50	59.62	62.84	22.61	1,153.42	2,691.45	193.07	124.55	68.52	2.818		
6,000.00	5,076.06	5,967.86	4,957.58	60.95	64.24	22.67	1,179.03	2,750.99	196.54	126.49	70.05	2.806		
6,100.00	5,154.18	6,067.80	5,033.66	62.28	65.64	22.74	1,204.64	2,810.52	200.02	128.44	71.58	2.794		
6,200.00	5,232.29	6,167.74	5,109.74	63.61	67.04	22.81	1,230.24	2,870.05	203.49	130.38	73.11	2.783		
6,300.00	5,310.41	6,267.68	5,185.82	64.93	68.44	22.87	1,255.85	2,929.58	206.96	132.32	74.64	2.773		
6,400.00	5,388.53	6,367.62	5,261.90	66.26	69.84	22.93	1,281.46	2,989.11	210.43	134.25	76.18	2.762		
6,500.00	5,466.64	6,467.56	5,337.98	67.59	71.23	22.99	1,307.07	3,048.64	213.91	136.19	77.71	2.752		
6,600.00	5,544.76	6,567.50	5,414.06	68.92	72.63	23.04	1,332.68	3,108.17	217.38	138.13	79.25	2.743		
6,700.00	5,622.88	6,667.44	5,490.14	70.25	74.03	23.10	1,358.28	3,167.70	220.85	140.06	80.79	2.734		
6,800.00	5,701.00	6,767.37	5,566.22	71.58	75.43	23.15	1,383.89	3,227.23	224.33	142.00	82.33	2.725		
6,900.00	5,779.11	6,867.31	5,642.30	72.91	76.83	23.20	1,409.50	3,286.76	227.80	143.93	83.86	2.716		
7,000.00	5,857.23	6,967.25	5,718.38	74.23	78.23	23.25	1,435.11	3,346.30	231.27	145.87	85.40	2.708		
7,100.00	5,935.35	7,067.19	5,794.46	75.56	79.63	23.30	1,460.72	3,405.83	234.75	147.80	86.95	2.700		
7,200.00	6,013.46	7,167.13	5,870.54	76.89	81.03	23.35	1,486.32	3,465.36	238.22	149.73	88.49	2.692		
7,300.00	6,091.58	7,267.07	5,946.62	78.22	82.43	23.40	1,511.93	3,524.89	241.69	151.66	90.03	2.685		
7,400.00	6,169.70	7,367.01	6,022.70	79.55	83.83	23.44	1,537.54	3,584.42	245.17	153.59	91.57	2.677		
7,500.00	6,247.81	7,466.95	6,098.78	80.88	85.24	23.48	1,563.15	3,643.95	248.64	155.53	93.12	2.670		
7,600.00	6,325.93	7,566.89	6,174.86	82.21	86.64	23.53	1,588.76	3,703.48	252.12	157.45	94.66	2.663		
7,700.00	6,404.05	7,666.83	6,250.94	83.54	88.04	23.57	1,614.36	3,763.01	255.59	159.38	96.21	2.657		
7,800.00	6,482.17	7,766.77	6,327.02	84.87	89.44	23.61	1,639.97	3,822.54	259.07	161.31	97.75	2.650		
7,900.00	6,560.28	7,866.71	6,403.10	86.20	90.84	23.65	1,665.58	3,882.08	262.54	163.24	99.30	2.644		
8,000.00	6,638.40	7,966.65	6,479.18	87.53	92.24	23.68	1,691.19	3,941.61	266.02	165.17	100.85	2.638		
8,100.00	6,716.52	8,066.59	6,555.26	88.86	93.64	23.72	1,716.80	4,001.14	269.49	167.10	102.40	2.632		
8,200.00	6,794.63	8,166.53	6,631.34	90.20	95.04	23.76	1,742.40	4,060.67	272.97	169.02	103.95	2.626		
8,300.00	6,872.75	8,266.47	6,707.42	91.53	96.44	23.79	1,768.01	4,120.20	276.44	170.95	105.49	2.620		
8,400.00	6,950.87	8,366.41	6,783.50	92.86	97.84	23.82	1,793.62	4,179.73	279.92	172.87	107.04	2.615		
8,500.00	7,028.98	8,466.35	6,859.58	94.19	99.25	23.86	1,819.23	4,239.26	283.39	174.80	108.59	2.610		
8,600.00	7,107.10	8,566.28	6,935.66	95.52	100.65	23.89	1,844.83	4,298.79	286.87	176.73	110.15	2.604		
8,647.91	7,144.53	8,614.16	6,972.11	96.16	101.32	23.91	1,857.10	4,327.31	288.54	177.65	110.89	2.602		
8,650.00	7,146.16	8,616.25	6,973.70	96.18	101.35	23.67	1,857.64	4,328.56	288.61	177.69	110.92	2.602		
8,700.00	7,185.66	8,666.16	7,011.69	96.84	102.05	17.20	1,870.43	4,358.29	290.19	179.34	110.85	2.618		
8,750.00	7,225.78	8,715.69	7,049.39	97.47	102.74	9.44	1,883.12	4,387.79	291.57	182.32	109.25	2.669		
8,800.00	7,266.21	8,764.23	7,086.52	98.08	103.42	0.84	1,894.68	4,416.84	293.03	186.50	106.53	2.751		
8,850.00	7,306.63	8,813.20	7,124.59	98.64	104.09	-7.78	1,902.50	4,446.61	294.84	190.98	103.87	2.839		
8,900.00	7,346.75	8,863.06	7,163.74	99.17	104.74	-16.16	1,906.19	4,477.21	297.00	195.52	101.48	2.927		
8,950.00	7,386.25	8,913.84	7,203.75	99.64	105.37	-24.06	1,905.50	4,508.47	299.47	200.01	99.46	3.011		
9,000.00	7,424.84	8,965.62	7,244.32	100.06	105.98	-31.36	1,900.17	4,540.15	302.23	204.38	97.85	3.089		
9,050.00	7,462.22	9,018.41	7,285.14	100.42	106.54	-37.97	1,899.97	4,572.01	305.23	208.57	96.66	3.158		
9,100.00	7,498.11	9,072.27	7,325.85	100.74	107.05	-43.88	1,874.71	4,603.77	308.41	212.58	95.83	3.218		
9,150.00	7,532.24	9,127.21	7,366.03	100.99	107.51	-49.11	1,854.21	4,635.10	311.72	216.42	95.29	3.271		
9,200.00	7,564.34	9,183.24	7,405.24	101.19	107.91	-53.70	1,828.38	4,665.64	315.07	220.10	94.97	3.318		
9,250.00	7,594.17	9,240.36	7,442.97	101.34	108.24	-57.70	1,797.19	4,695.02	318.40	223.60	94.79	3.359		
9,300.00	7,621.50	9,298.55	7,478.71	101.45	108.51	-61.14	1,760.68	4,722.82	321.62	226.87	94.75	3.395		
9,350.00	7,646.13	9,357.75	7,511.89	101.50	108.70	-64.08	1,719.02	4,748.60	324.65	229.80	94.85	3.423		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,417.89	7,541.95	101.51	108.81	-66.54	1,672.49	4,771.94	327.42	232.24	95.17	3.440		
9,450.00	7,686.55	9,478.87	7,568.35	101.48	108.87	-68.56	1,621.49	4,792.39	329.84	234.02	95.82	3.442		
9,500.00	7,702.04	9,540.59	7,590.58	101.42	108.86	-70.16	1,566.58	4,809.57	331.86	234.97	96.89	3.425		
9,550.00	7,714.20	9,602.88	7,608.16	101.33	108.80	-71.35	1,508.41	4,823.12	333.42	234.94	98.48	3.386		
9,600.00	7,722.96	9,665.59	7,620.74	101.20	108.67	-72.15	1,447.76	4,832.74	334.47	233.85	100.63	3.324		
9,650.00	7,728.24	9,728.54	7,628.05	101.06	108.51	-72.57	1,385.52	4,838.24	335.00	231.71	103.29	3.243		
9,697.50	7,730.00	9,788.39	7,629.97	100.90	108.33	-72.63	1,325.74	4,839.54	334.99	228.79	106.19	3.155		
9,699.97	7,730.00	9,789.50	7,630.00	100.90	108.33	-72.63	1,324.62	4,839.56	334.99	229.18	105.81	3.166		
9,800.00	7,730.00	9,889.53	7,630.00	100.56	108.01	-72.63	1,224.60	4,839.22	335.00	229.79	105.21	3.184		
9,900.00	7,730.00	9,989.53	7,630.00	100.24	107.70	-72.63	1,124.60	4,838.89	335.00	230.28	104.72	3.199		
10,000.00	7,730.00	10,089.53	7,630.00	99.93	107.41	-72.63	1,024.60	4,838.55	335.00	230.67	104.33	3.211		
10,100.00	7,730.00	10,189.53	7,630.00	99.64	107.13	-72.63	924.60	4,838.21	335.00	230.95	104.05	3.219		
10,200.00	7,730.00	10,289.53	7,630.00	99.36	106.87	-72.63	824.60	4,837.87	335.00	231.11	103.89	3.225		
10,300.00	7,730.00	10,389.53	7,630.00	99.09	106.62	-72.63	724.60	4,837.54	335.00	231.17	103.84	3.226		
10,400.00	7,730.00	10,489.53	7,630.00	98.84	106.38	-72.63	624.60	4,837.20	335.00	231.11	103.89	3.224		
10,500.00	7,730.00	10,589.53	7,630.00	98.61	106.15	-72.63	524.60	4,836.86	335.01	230.94	104.06	3.219		
10,600.00	7,730.00	10,689.53	7,630.00	98.39	105.94	-72.63	424.60	4,836.52	335.01	230.66	104.34	3.211		
10,700.00	7,730.00	10,789.53	7,630.00	98.18	105.74	-72.63	324.60	4,836.19	335.01	230.27	104.74	3.199		
10,800.00	7,730.00	10,889.53	7,630.00	97.99	105.56	-72.63	224.60	4,835.85	335.01	229.77	105.24	3.183		
10,900.00	7,730.00	10,989.53	7,630.00	97.81	105.38	-72.63	124.60	4,835.51	335.01	229.17	105.84	3.165		
11,000.00	7,730.00	11,089.53	7,630.00	97.64	105.22	-72.63	24.60	4,835.18	335.01	228.46	106.56	3.144		
11,100.00	7,730.00	11,189.53	7,630.00	97.50	105.08	-72.63	-75.40	4,834.84	335.01	227.64	107.37	3.120		
11,200.00	7,730.00	11,289.53	7,630.00	97.36	104.95	-72.63	-175.40	4,834.50	335.02	226.73	108.29	3.094		
11,300.00	7,730.00	11,389.53	7,630.00	97.24	104.83	-72.63	-275.40	4,834.16	335.02	225.71	109.31	3.065		
11,400.00	7,730.00	11,489.53	7,630.00	97.14	104.73	-72.63	-375.40	4,833.83	335.02	224.60	110.42	3.034		
11,500.00	7,730.00	11,589.53	7,630.00	97.06	104.64	-72.63	-475.39	4,833.49	335.02	223.40	111.62	3.001		
11,600.00	7,730.00	11,689.53	7,630.00	96.98	104.56	-72.63	-575.39	4,833.15	335.02	222.11	112.92	2.967		
11,700.00	7,730.00	11,789.53	7,630.00	96.93	104.50	-72.63	-675.39	4,832.82	335.02	220.73	114.30	2.931		
11,800.00	7,730.00	11,889.53	7,630.00	96.90	104.46	-72.63	-775.39	4,832.48	335.02	219.26	115.76	2.894		
11,900.00	7,730.00	11,989.53	7,630.00	96.88	104.43	-72.63	-875.39	4,832.14	335.03	217.72	117.31	2.856		
12,000.00	7,730.00	12,089.53	7,630.00	96.88	104.42	-72.63	-975.39	4,831.80	335.03	216.10	118.93	2.817		
12,100.00	7,730.00	12,189.53	7,630.00	96.90	104.42	-72.63	-1,075.39	4,831.47	335.03	214.40	120.63	2.777		
12,200.00	7,730.00	12,289.53	7,630.00	96.94	104.44	-72.63	-1,175.39	4,831.13	335.03	212.63	122.40	2.737		
12,300.00	7,730.00	12,389.53	7,630.00	97.00	104.48	-72.63	-1,275.39	4,830.79	335.03	210.80	124.23	2.697		
12,400.00	7,730.00	12,489.53	7,630.00	97.08	104.54	-72.63	-1,375.39	4,830.45	335.03	208.90	126.14	2.656		
12,500.00	7,730.00	12,589.53	7,630.00	97.18	104.62	-72.63	-1,475.39	4,830.12	335.03	206.93	128.10	2.615		
12,600.00	7,730.00	12,689.53	7,630.00	97.31	104.71	-72.63	-1,575.39	4,829.78	335.04	204.91	130.13	2.575		
12,700.00	7,730.00	12,789.53	7,630.00	97.46	104.83	-72.63	-1,675.39	4,829.44	335.04	202.83	132.21	2.534		
12,800.00	7,730.00	12,889.53	7,630.00	97.64	104.97	-72.63	-1,775.39	4,829.11	335.04	200.70	134.34	2.494		
12,900.00	7,730.00	12,989.53	7,630.00	97.85	105.14	-72.63	-1,875.39	4,828.77	335.04	198.51	136.53	2.454		
13,000.00	7,730.00	13,089.53	7,630.00	98.09	105.32	-72.63	-1,975.39	4,828.43	335.04	196.28	138.77	2.414		
13,100.00	7,730.00	13,189.53	7,630.00	98.35	105.53	-72.63	-2,075.39	4,828.09	335.04	194.00	141.05	2.375		
13,200.00	7,730.00	13,289.53	7,630.00	98.65	105.77	-72.63	-2,175.39	4,827.76	335.04	191.67	143.38	2.337		
13,300.00	7,730.00	13,389.53	7,630.00	98.98	106.03	-72.63	-2,275.38	4,827.42	335.05	189.30	145.75	2.299		
13,400.00	7,730.00	13,489.53	7,630.00	99.34	106.32	-72.63	-2,375.38	4,827.08	335.05	186.89	148.16	2.261		
13,500.00	7,730.00	13,589.53	7,630.00	99.74	106.64	-72.63	-2,475.38	4,826.75	335.05	184.44	150.60	2.225		
13,600.00	7,730.00	13,689.53	7,630.00	100.17	106.99	-72.63	-2,575.38	4,826.41	335.05	181.96	153.09	2.189		
13,700.00	7,730.00	13,789.53	7,630.00	100.65	107.37	-72.63	-2,675.38	4,826.07	335.05	179.44	155.61	2.153		
13,800.00	7,730.00	13,889.53	7,630.00	101.16	107.79	-72.63	-2,775.38	4,825.73	335.05	176.89	158.16	2.118		
13,900.00	7,730.00	13,989.53	7,630.00	101.71	108.23	-72.63	-2,875.38	4,825.40	335.06	174.31	160.75	2.084		
14,000.00	7,730.00	14,089.53	7,630.00	102.30	108.71	-72.64	-2,975.38	4,825.06	335.06	171.69	163.36	2.051		
14,100.00	7,730.00	14,189.53	7,630.00	102.93	109.23	-72.64	-3,075.38	4,824.72	335.06	169.05	166.01	2.018		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	14,289.53	7,630.00	103.60	109.78	-72.64	-3,175.38	4,824.38	335.06	166.38	168.68	1.986		
14,300.00	7,730.00	14,389.53	7,630.00	104.32	110.37	-72.64	-3,275.38	4,824.05	335.06	163.68	171.38	1.955		
14,400.00	7,730.00	14,489.53	7,630.00	105.07	110.99	-72.64	-3,375.38	4,823.71	335.06	160.96	174.10	1.925		
14,500.00	7,730.00	14,589.53	7,630.00	105.86	111.65	-72.64	-3,475.38	4,823.37	335.06	158.22	176.84	1.895		
14,600.00	7,730.00	14,689.53	7,630.00	106.70	112.35	-72.64	-3,575.38	4,823.04	335.07	155.45	179.61	1.865		
14,700.00	7,730.00	14,789.53	7,630.00	107.57	113.08	-72.64	-3,675.38	4,822.70	335.07	152.66	182.40	1.837		
14,800.00	7,730.00	14,889.53	7,630.00	108.48	113.86	-72.64	-3,775.38	4,822.36	335.07	149.85	185.21	1.809		
14,900.00	7,730.00	14,989.53	7,630.00	109.43	114.66	-72.64	-3,875.38	4,822.02	335.07	147.02	188.04	1.782		
15,000.00	7,730.00	15,089.53	7,630.00	110.42	115.51	-72.64	-3,975.37	4,821.69	335.07	144.18	190.89	1.755		
15,100.00	7,730.00	15,189.53	7,630.00	111.43	116.39	-72.64	-4,075.37	4,821.35	335.07	141.31	193.76	1.729		
15,200.00	7,730.00	15,289.53	7,630.00	112.49	117.30	-72.64	-4,175.37	4,821.01	335.07	138.43	196.65	1.704		
15,300.00	7,730.00	15,389.53	7,630.00	113.57	118.25	-72.64	-4,275.37	4,820.68	335.08	135.53	199.55	1.679		
15,400.00	7,730.00	15,489.53	7,630.00	114.68	119.23	-72.64	-4,375.37	4,820.34	335.08	132.61	202.46	1.655		
15,500.00	7,730.00	15,589.53	7,630.00	115.82	120.25	-72.64	-4,475.37	4,820.00	335.08	129.68	205.40	1.631		
15,600.00	7,730.00	15,689.53	7,630.00	116.99	121.29	-72.64	-4,575.37	4,819.66	335.08	126.74	208.34	1.608		
15,700.00	7,730.00	15,789.53	7,630.00	118.19	122.36	-72.64	-4,675.37	4,819.33	335.08	123.78	211.30	1.586		
15,800.00	7,730.00	15,889.53	7,630.00	119.41	123.46	-72.64	-4,775.37	4,818.99	335.08	120.81	214.27	1.564		
15,900.00	7,730.00	15,989.53	7,630.00	120.65	124.59	-72.64	-4,875.37	4,818.65	335.08	117.82	217.26	1.542		
16,000.00	7,730.00	16,089.53	7,630.00	121.91	125.75	-72.64	-4,975.37	4,818.31	335.09	114.83	220.26	1.521		
16,100.00	7,730.00	16,189.53	7,630.00	123.20	126.93	-72.64	-5,075.37	4,817.98	335.09	111.82	223.27	1.501		
16,200.00	7,730.00	16,289.53	7,630.00	124.50	128.13	-72.64	-5,175.37	4,817.64	335.09	108.80	226.29	1.481 Level 3		
16,300.00	7,730.00	16,389.53	7,630.00	125.82	129.35	-72.64	-5,275.37	4,817.30	335.09	105.77	229.32	1.461 Level 3		
16,400.00	7,730.00	16,489.53	7,630.00	127.16	130.60	-72.64	-5,375.37	4,816.97	335.09	102.73	232.36	1.442 Level 3		
16,500.00	7,730.00	16,589.53	7,630.00	128.52	131.86	-72.64	-5,475.37	4,816.63	335.09	99.68	235.42	1.423 Level 3		
16,600.00	7,730.00	16,689.53	7,630.00	129.89	133.15	-72.64	-5,575.37	4,816.29	335.09	96.61	238.48	1.405 Level 3		
16,700.00	7,730.00	16,789.53	7,630.00	131.27	134.45	-72.64	-5,675.37	4,815.95	335.10	93.54	241.55	1.387 Level 3		
16,800.00	7,730.00	16,889.53	7,630.00	132.67	135.77	-72.64	-5,775.36	4,815.62	335.10	90.47	244.63	1.370 Level 3		
16,900.00	7,730.00	16,989.53	7,630.00	134.09	137.11	-72.64	-5,875.36	4,815.28	335.10	87.38	247.72	1.353 Level 3		
17,000.00	7,730.00	17,089.53	7,630.00	135.51	138.46	-72.64	-5,975.36	4,814.94	335.10	84.28	250.82	1.336 Level 3		
17,100.00	7,730.00	17,189.53	7,630.00	136.95	139.83	-72.64	-6,075.36	4,814.61	335.10	81.18	253.92	1.320 Level 3		
17,200.00	7,730.00	17,289.53	7,630.00	138.40	141.21	-72.64	-6,175.36	4,814.27	335.10	78.07	257.03	1.304 Level 3		
17,300.00	7,730.00	17,389.53	7,630.00	139.85	142.61	-72.64	-6,275.36	4,813.93	335.10	74.95	260.15	1.288 Level 3		
17,400.00	7,730.00	17,489.53	7,630.00	141.32	144.01	-72.64	-6,375.36	4,813.59	335.11	71.83	263.28	1.273 Level 3		
17,500.00	7,730.00	17,589.53	7,630.00	142.80	145.43	-72.64	-6,475.36	4,813.26	335.11	68.69	266.41	1.258 Level 3		
17,600.00	7,730.00	17,689.53	7,630.00	144.28	146.86	-72.64	-6,575.36	4,812.92	335.11	65.55	269.55	1.243 Level 2		
17,700.00	7,730.00	17,789.53	7,630.00	145.78	148.30	-72.64	-6,675.36	4,812.58	335.11	62.41	272.70	1.229 Level 2		
17,800.00	7,730.00	17,889.53	7,630.00	147.28	149.75	-72.64	-6,775.36	4,812.25	335.11	59.26	275.85	1.215 Level 2		
17,900.00	7,730.00	17,989.53	7,630.00	148.79	151.22	-72.64	-6,875.36	4,811.91	335.11	56.10	279.01	1.201 Level 2		
18,000.00	7,730.00	18,089.53	7,630.00	150.31	152.69	-72.64	-6,975.36	4,811.57	335.11	52.94	282.18	1.188 Level 2		
18,100.00	7,730.00	18,189.53	7,630.00	151.83	154.17	-72.64	-7,075.36	4,811.23	335.12	49.77	285.35	1.174 Level 2		
18,200.00	7,730.00	18,289.53	7,630.00	153.37	155.65	-72.64	-7,175.36	4,810.90	335.12	46.59	288.52	1.161 Level 2		
18,300.00	7,730.00	18,389.53	7,630.00	154.90	157.15	-72.64	-7,275.36	4,810.56	335.12	43.41	291.70	1.149 Level 2		
18,400.00	7,730.00	18,489.53	7,630.00	156.45	158.65	-72.64	-7,375.36	4,810.22	335.12	40.23	294.89	1.136 Level 2		
18,500.00	7,730.00	18,589.53	7,630.00	158.00	160.16	-72.64	-7,475.36	4,809.88	335.12	37.04	298.08	1.124 Level 2		
18,600.00	7,730.00	18,689.53	7,630.00	159.55	161.68	-72.64	-7,575.35	4,809.55	335.12	33.85	301.28	1.112 Level 2		
18,700.00	7,730.00	18,789.53	7,630.00	161.11	163.21	-72.64	-7,675.35	4,809.21	335.12	30.65	304.48	1.101 Level 2		
18,800.00	7,730.00	18,889.53	7,630.00	162.68	164.74	-72.64	-7,775.35	4,808.87	335.13	27.44	307.68	1.089 Level 2		
18,900.00	7,730.00	18,989.53	7,630.00	164.25	166.27	-72.64	-7,875.35	4,808.54	335.13	24.24	310.89	1.078 Level 2		
19,000.00	7,730.00	19,089.53	7,630.00	165.83	167.82	-72.64	-7,975.35	4,808.20	335.13	21.03	314.10	1.067 Level 2		
19,100.00	7,730.00	19,189.53	7,630.00	167.41	169.36	-72.64	-8,075.35	4,807.86	335.13	17.81	317.32	1.056 Level 2		
19,200.00	7,730.00	19,289.53	7,630.00	168.99	170.92	-72.64	-8,175.35	4,807.52	335.13	14.59	320.54	1.046 Level 2		
19,300.00	7,730.00	19,389.53	7,630.00	170.58	172.48	-72.64	-8,275.35	4,807.19	335.13	11.37	323.77	1.035 Level 2		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	19,489.53	7,630.00	172.17	174.04	-72.64	-8,375.35	4,806.85	335.13	8.14	326.99	1.025	Level 2
19,430.54	7,730.00	19,520.07	7,630.00	172.66	174.52	-72.64	-8,405.89	4,806.75	335.14	7.15	327.98	1.022	Level 2, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	20.16	20.16					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	20.16	20.16	19.89	0.27	74.986		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	20.16	20.16	19.17	0.99	20.451		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	20.16	20.16	18.46	1.70	11.840 CC, ES		
400.00	400.00	399.31	399.29	1.21	1.20	88.31	0.64	21.76	21.78	19.36	2.41	9.020		
500.00	500.00	498.38	498.23	1.57	1.56	84.50	2.56	26.53	26.71	23.59	3.12	8.550		
600.00	599.98	597.14	596.61	1.92	1.92	15.95	5.73	34.45	33.41	29.59	3.82	8.736		
700.00	699.84	695.67	694.41	2.28	2.30	14.06	10.16	45.48	40.17	35.65	4.52	8.892		
800.00	799.45	793.97	791.52	2.64	2.70	12.93	15.81	59.59	46.94	41.73	5.21	9.008		
900.00	898.70	892.04	887.84	3.02	3.12	12.27	22.69	76.74	53.69	47.78	5.91	9.091		
1,000.00	997.47	989.89	983.24	3.41	3.58	11.91	30.77	96.89	60.40	53.80	6.60	9.148		
1,100.00	1,095.62	1,087.53	1,077.64	3.84	4.08	11.77	40.04	119.99	67.07	59.77	7.30	9.183		
1,200.00	1,193.06	1,184.94	1,170.94	4.29	4.62	11.79	50.48	146.01	73.68	65.67	8.01	9.199		
1,300.00	1,289.64	1,282.15	1,263.02	4.78	5.20	11.92	62.06	174.89	80.24	71.51	8.73	9.195		
1,400.00	1,385.27	1,379.15	1,353.81	5.32	5.83	12.14	74.77	206.59	86.72	77.27	9.45	9.175		
1,500.00	1,479.82	1,475.95	1,443.20	5.90	6.52	12.43	88.59	241.04	93.13	82.94	10.19	9.139		
1,600.00	1,573.17	1,572.55	1,531.11	6.53	7.25	12.78	103.49	278.20	99.46	88.51	10.95	9.087		
1,700.00	1,665.21	1,668.95	1,617.45	7.23	8.05	13.18	119.46	318.00	105.70	93.98	11.72	9.020		
1,800.00	1,755.84	1,765.17	1,702.13	7.98	8.91	13.61	136.46	360.39	111.86	99.34	12.52	8.938		
1,900.00	1,844.94	1,861.21	1,785.07	8.80	9.83	14.08	154.48	405.31	117.92	104.58	13.34	8.841		
2,000.00	1,932.39	1,957.06	1,866.20	9.68	10.81	14.58	173.48	452.70	123.89	109.70	14.19	8.729		
2,100.00	2,018.11	2,052.75	1,945.43	10.63	11.85	15.10	193.45	502.48	129.76	114.68	15.08	8.604		
2,200.00	2,101.97	2,148.26	2,022.69	11.65	12.96	15.64	214.35	554.60	135.53	119.52	16.01	8.464		
2,300.00	2,183.88	2,243.62	2,097.91	12.74	14.13	16.20	236.16	608.99	141.19	124.20	16.99	8.310		
2,400.00	2,263.74	2,339.36	2,171.44	13.90	15.36	16.79	258.99	665.88	146.72	128.68	18.04	8.133		
2,431.61	2,288.54	2,370.93	2,195.43	14.29	15.78	17.02	266.63	684.93	148.18	129.73	18.45	8.033		
2,500.00	2,341.97	2,439.25	2,247.34	15.13	16.69	17.55	283.16	726.16	150.98	131.63	19.35	7.803		
2,600.00	2,420.08	2,539.15	2,323.23	16.37	18.04	18.30	307.34	786.45	155.09	134.39	20.70	7.491		
2,700.00	2,498.20	2,639.04	2,399.13	17.63	19.39	19.01	331.52	846.73	159.23	137.13	22.10	7.205		
2,800.00	2,576.32	2,738.94	2,475.03	18.89	20.75	19.69	355.70	907.01	163.39	139.85	23.53	6.942		
2,900.00	2,654.43	2,838.83	2,550.93	20.17	22.12	20.33	379.87	967.29	167.57	142.56	25.01	6.701		
3,000.00	2,732.55	2,938.73	2,626.83	21.45	23.50	20.94	404.05	1,027.58	171.77	145.26	26.51	6.480		
3,100.00	2,810.67	3,038.62	2,702.72	22.74	24.88	21.52	428.23	1,087.86	175.99	147.95	28.04	6.276		
3,200.00	2,888.78	3,138.52	2,778.62	24.03	26.26	22.07	452.41	1,148.14	180.23	150.63	29.60	6.088		
3,300.00	2,966.90	3,238.41	2,854.52	25.33	27.65	22.60	476.59	1,208.43	184.49	153.29	31.19	5.914		
3,400.00	3,045.02	3,338.31	2,930.42	26.63	29.04	23.10	500.77	1,268.71	188.76	155.95	32.80	5.754		
3,500.00	3,123.13	3,438.20	3,006.32	27.94	30.43	23.58	524.94	1,328.99	193.04	158.60	34.44	5.605		
3,600.00	3,201.25	3,538.10	3,082.21	29.24	31.82	24.04	549.12	1,389.27	197.33	161.24	36.09	5.467		
3,700.00	3,279.37	3,638.00	3,158.11	30.55	33.22	24.48	573.30	1,449.56	201.64	163.88	37.77	5.339		
3,800.00	3,357.49	3,737.89	3,234.01	31.86	34.61	24.91	597.48	1,509.84	205.96	166.50	39.46	5.220		
3,900.00	3,435.60	3,837.79	3,309.91	33.18	36.01	25.31	621.66	1,570.12	210.29	169.12	41.17	5.108		
4,000.00	3,513.72	3,937.68	3,385.80	34.49	37.41	25.70	645.83	1,630.41	214.63	171.74	42.89	5.004		
4,100.00	3,591.84	4,037.58	3,461.70	35.81	38.81	26.07	670.01	1,690.69	218.98	174.35	44.63	4.907		
4,200.00	3,669.95	4,137.47	3,537.60	37.12	40.21	26.43	694.19	1,750.97	223.34	176.96	46.38	4.815		
4,300.00	3,748.07	4,237.37	3,613.50	38.44	41.62	26.78	718.37	1,811.25	227.71	179.56	48.15	4.729		
4,400.00	3,826.19	4,337.26	3,689.40	39.76	43.02	27.11	742.55	1,871.54	232.08	182.16	49.92	4.649		
4,500.00	3,904.30	4,437.16	3,765.29	41.08	44.42	27.43	766.72	1,931.82	236.47	184.75	51.71	4.573		
4,600.00	3,982.42	4,537.05	3,841.19	42.40	45.83	27.74	790.90	1,992.10	240.86	187.34	53.51	4.501		
4,700.00	4,060.54	4,636.95	3,917.09	43.72	47.23	28.03	815.08	2,052.39	245.25	189.93	55.32	4.433		
4,800.00	4,138.66	4,736.84	3,992.99	45.05	48.64	28.32	839.26	2,112.67	249.65	192.52	57.14	4.369		
4,900.00	4,216.77	4,836.74	4,068.89	46.37	50.05	28.60	863.44	2,172.95	254.06	195.10	58.97	4.309		
5,000.00	4,294.89	4,936.64	4,144.78	47.69	51.45	28.86	887.62	2,233.23	258.48	197.68	60.80	4.251		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,036.53	4,220.68	49.02	52.86	29.12	911.79	2,293.52	262.90	200.25	62.64	4.197		
5,200.00	4,451.12	5,136.43	4,296.58	50.34	54.27	29.37	935.97	2,353.80	267.32	202.83	64.49	4.145		
5,300.00	4,529.24	5,236.32	4,372.48	51.67	55.68	29.61	960.15	2,414.08	271.75	205.40	66.35	4.096		
5,400.00	4,607.36	5,336.22	4,448.37	52.99	57.08	29.85	984.33	2,474.37	276.19	207.97	68.21	4.049		
5,500.00	4,685.47	5,436.11	4,524.27	54.32	58.49	30.07	1,008.51	2,534.65	280.63	210.54	70.08	4.004		
5,600.00	4,763.59	5,536.01	4,600.17	55.64	59.90	30.29	1,032.68	2,594.93	285.07	213.11	71.96	3.961		
5,700.00	4,841.71	5,635.90	4,676.07	56.97	61.31	30.50	1,056.86	2,655.21	289.52	215.67	73.84	3.921		
5,800.00	4,919.83	5,735.80	4,751.97	58.30	62.72	30.71	1,081.04	2,715.50	293.97	218.24	75.73	3.882		
5,900.00	4,997.94	5,835.69	4,827.86	59.62	64.13	30.91	1,105.22	2,775.78	298.42	220.80	77.62	3.845		
6,000.00	5,076.06	5,935.59	4,903.76	60.95	65.54	31.10	1,129.40	2,836.06	302.88	223.36	79.52	3.809		
6,100.00	5,154.18	6,035.48	4,979.66	62.28	66.95	31.29	1,153.57	2,896.35	307.34	225.92	81.42	3.775		
6,200.00	5,232.29	6,135.38	5,055.56	63.61	68.36	31.48	1,177.75	2,956.63	311.81	228.48	83.33	3.742		
6,300.00	5,310.41	6,235.28	5,131.46	64.93	69.77	31.65	1,201.93	3,016.91	316.28	231.04	85.24	3.711		
6,400.00	5,388.53	6,335.17	5,207.35	66.26	71.18	31.83	1,226.11	3,077.19	320.75	233.60	87.15	3.680		
6,500.00	5,466.64	6,435.07	5,283.25	67.59	72.59	32.00	1,250.29	3,137.48	325.22	236.15	89.07	3.651		
6,600.00	5,544.76	6,534.96	5,359.15	68.92	74.00	32.16	1,274.47	3,197.76	329.70	238.71	90.99	3.623		
6,700.00	5,622.88	6,634.86	5,435.05	70.25	75.42	32.32	1,298.64	3,258.04	334.18	241.26	92.91	3.597		
6,800.00	5,701.00	6,734.75	5,510.94	71.58	76.83	32.47	1,322.82	3,318.33	338.66	243.81	94.84	3.571		
6,900.00	5,779.11	6,834.65	5,586.84	72.91	78.24	32.62	1,347.00	3,378.61	343.14	246.37	96.77	3.546		
7,000.00	5,857.23	6,934.54	5,662.74	74.23	79.65	32.77	1,371.18	3,438.89	347.63	248.92	98.71	3.522		
7,100.00	5,935.35	7,034.44	5,738.64	75.56	81.06	32.91	1,395.36	3,499.17	352.12	251.47	100.65	3.499		
7,200.00	6,013.46	7,134.33	5,814.54	76.89	82.47	33.05	1,419.53	3,559.46	356.61	254.02	102.59	3.476		
7,300.00	6,091.58	7,234.23	5,890.43	78.22	83.88	33.19	1,443.71	3,619.74	361.10	256.57	104.53	3.455		
7,400.00	6,169.70	7,334.12	5,966.33	79.55	85.30	33.32	1,467.89	3,680.02	365.59	259.12	106.47	3.434		
7,500.00	6,247.81	7,434.02	6,042.23	80.88	86.71	33.45	1,492.07	3,740.31	370.09	261.67	108.42	3.413		
7,600.00	6,325.93	7,533.92	6,118.13	82.21	88.12	33.58	1,516.25	3,800.59	374.59	264.22	110.37	3.394		
7,700.00	6,404.05	7,633.81	6,194.03	83.54	89.53	33.70	1,540.42	3,860.87	379.09	266.77	112.32	3.375		
7,800.00	6,482.17	7,733.71	6,269.92	84.87	90.95	33.82	1,564.60	3,921.15	383.59	269.31	114.28	3.357		
7,900.00	6,560.28	7,833.60	6,345.82	86.20	92.36	33.94	1,588.78	3,981.44	388.10	271.86	116.23	3.339		
8,000.00	6,638.40	7,933.50	6,421.72	87.53	93.77	34.06	1,612.96	4,041.72	392.60	274.41	118.19	3.322		
8,100.00	6,716.52	8,033.39	6,497.62	88.86	95.18	34.17	1,637.14	4,102.00	397.11	276.96	120.15	3.305		
8,200.00	6,794.63	8,133.29	6,573.51	90.20	96.59	34.28	1,661.32	4,162.28	401.62	279.50	122.12	3.289		
8,300.00	6,872.75	8,233.18	6,649.41	91.53	98.01	34.39	1,685.49	4,222.57	406.13	282.05	124.08	3.273		
8,400.00	6,950.87	8,333.08	6,725.31	92.86	99.42	34.49	1,709.67	4,282.85	410.64	284.59	126.05	3.258		
8,500.00	7,028.98	8,432.97	6,801.21	94.19	100.83	34.60	1,733.85	4,343.13	415.15	287.14	128.01	3.243		
8,600.00	7,107.10	8,532.87	6,877.11	95.52	102.25	34.70	1,758.03	4,403.42	419.66	289.68	129.98	3.229		
8,647.91	7,144.53	8,580.73	6,913.47	96.16	102.92	34.74	1,769.61	4,432.30	421.83	290.90	130.93	3.222		
8,650.00	7,146.16	8,582.82	6,915.05	96.18	102.95	34.51	1,770.12	4,433.56	421.92	290.95	130.97	3.222		
8,700.00	7,185.66	8,632.74	6,952.98	96.84	103.66	28.23	1,782.20	4,463.68	423.57	292.25	131.32	3.226		
8,750.00	7,225.78	8,682.34	6,990.67	97.47	104.36	20.86	1,794.21	4,493.62	424.16	293.67	130.49	3.250		
8,800.00	7,266.21	8,731.26	7,027.83	98.08	105.05	12.62	1,806.04	4,523.13	423.87	295.40	128.47	3.299		
8,850.00	7,306.63	8,779.10	7,064.19	98.64	105.73	3.81	1,817.62	4,552.01	422.99	297.73	125.26	3.377		
8,900.00	7,346.75	8,825.52	7,099.46	99.17	106.39	-5.23	1,828.86	4,580.02	421.95	301.05	120.91	3.490		
8,950.00	7,386.25	8,870.16	7,133.37	99.64	107.02	-14.20	1,839.66	4,606.96	421.30	305.73	115.57	3.645		
8,962.09	7,395.68	8,880.65	7,141.34	99.74	107.16	-16.32	1,842.20	4,613.29	421.27	307.10	114.16	3.690		
9,000.00	7,424.84	8,912.68	7,165.67	100.06	107.62	-22.81	1,849.95	4,632.62	421.65	312.08	109.57	3.848		
9,050.00	7,462.22	8,952.75	7,196.12	100.42	108.18	-30.83	1,859.65	4,656.80	423.69	320.25	103.44	4.096		
9,100.00	7,498.11	8,990.07	7,224.47	100.74	108.71	-38.07	1,868.69	4,679.32	428.10	330.13	97.97	4.370		
9,150.00	7,532.24	9,024.36	7,250.52	100.99	109.20	-44.40	1,876.98	4,700.01	435.53	341.39	94.14	4.626		
9,200.00	7,564.34	9,055.35	7,274.07	101.19	109.64	-49.68	1,884.49	4,718.71	446.49	353.67	92.83	4.810		
9,250.00	7,594.17	9,082.81	7,294.93	101.34	110.02	-53.83	1,891.13	4,735.28	461.35	366.88	94.46	4.884		
9,300.00	7,621.50	9,107.60	7,313.77	101.45	110.37	-56.91	1,897.12	4,750.24	480.24	381.39	98.85	4.858		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	9,143.74	7,341.46	101.50	110.88	-60.49	1,904.58	4,772.23	502.76	397.49	105.27	4.776		
9,400.00	7,667.87	9,183.60	7,372.36	101.51	111.43	-63.70	1,910.20	4,796.76	528.31	416.02	112.29	4.705		
9,450.00	7,686.55	9,229.47	7,408.21	101.48	112.04	-66.82	1,913.26	4,825.20	556.47	437.63	118.84	4.682		
9,500.00	7,702.04	9,285.97	7,452.44	101.42	112.76	-70.33	1,911.98	4,860.29	586.73	462.94	123.79	4.740		
9,550.00	7,714.20	9,350.00	7,489.89	101.33	115.85	-72.20	1,906.03	4,889.97	618.21	487.99	130.23	4.747		
9,600.00	7,722.96	9,492.74	7,608.54	101.20	114.89	-83.40	1,860.62	4,983.93	650.02	532.36	117.67	5.524		
9,650.00	7,728.24	9,774.40	7,778.88	101.06	116.28	-96.54	1,685.60	5,118.45	677.00	594.43	82.56	8.200		
9,699.97	7,730.00	10,161.80	7,870.00	100.90	115.87	-101.81	1,323.45	5,189.52	684.16	595.28	88.87	7.698		
9,800.00	7,730.00	10,261.83	7,870.00	100.56	115.57	-101.81	1,223.43	5,189.18	684.16	596.61	87.55	7.814		
9,900.00	7,730.00	10,361.83	7,870.00	100.24	115.29	-101.81	1,123.43	5,188.84	684.16	597.81	86.35	7.923		
10,000.00	7,730.00	10,461.83	7,870.00	99.93	115.01	-101.81	1,023.43	5,188.51	684.16	598.90	85.27	8.024		
10,100.00	7,730.00	10,561.83	7,870.00	99.64	114.75	-101.81	923.43	5,188.17	684.17	599.85	84.32	8.114		
10,200.00	7,730.00	10,661.83	7,870.00	99.36	114.50	-101.81	823.43	5,187.84	684.17	600.67	83.50	8.194		
10,300.00	7,730.00	10,761.83	7,870.00	99.09	114.26	-101.81	723.43	5,187.50	684.17	601.35	82.82	8.261		
10,400.00	7,730.00	10,861.83	7,870.00	98.84	114.04	-101.81	623.43	5,187.17	684.18	601.89	82.28	8.315		
10,500.00	7,730.00	10,961.83	7,870.00	98.61	113.82	-101.81	523.43	5,186.83	684.18	602.29	81.89	8.355		
10,600.00	7,730.00	11,061.83	7,870.00	98.39	113.62	-101.81	423.43	5,186.50	684.18	602.54	81.64	8.380		
10,700.00	7,730.00	11,161.83	7,870.00	98.18	113.43	-101.81	323.43	5,186.16	684.19	602.65	81.54	8.391		
10,800.00	7,730.00	11,261.83	7,870.00	97.99	113.26	-101.81	223.43	5,185.82	684.19	602.60	81.59	8.386		
10,900.00	7,730.00	11,361.83	7,870.00	97.81	113.09	-101.81	123.43	5,185.49	684.19	602.41	81.78	8.366		
11,000.00	7,730.00	11,461.83	7,870.00	97.64	112.94	-101.81	23.43	5,185.15	684.20	602.07	82.13	8.331		
11,100.00	7,730.00	11,561.83	7,870.00	97.50	112.81	-101.81	-76.57	5,184.82	684.20	601.59	82.61	8.282		
11,200.00	7,730.00	11,661.83	7,870.00	97.36	112.68	-101.81	-176.57	5,184.48	684.20	600.96	83.24	8.219		
11,300.00	7,730.00	11,761.83	7,870.00	97.24	112.57	-101.81	-276.57	5,184.15	684.21	600.19	84.01	8.144		
11,400.00	7,730.00	11,861.83	7,870.00	97.14	112.47	-101.81	-376.56	5,183.81	684.21	599.29	84.91	8.058		
11,500.00	7,730.00	11,961.83	7,870.00	97.06	112.38	-101.81	-476.56	5,183.48	684.21	598.26	85.95	7.961		
11,600.00	7,730.00	12,061.83	7,870.00	96.98	112.31	-101.81	-576.56	5,183.14	684.21	597.10	87.11	7.855		
11,700.00	7,730.00	12,161.83	7,870.00	96.93	112.25	-101.81	-676.56	5,182.80	684.22	595.82	88.39	7.741		
11,800.00	7,730.00	12,261.83	7,870.00	96.90	112.21	-101.81	-776.56	5,182.47	684.22	594.43	89.79	7.620		
11,900.00	7,730.00	12,361.83	7,870.00	96.88	112.18	-101.81	-876.56	5,182.13	684.22	592.92	91.30	7.494		
12,000.00	7,730.00	12,461.83	7,870.00	96.88	112.16	-101.81	-976.56	5,181.80	684.23	591.31	92.91	7.364		
12,100.00	7,730.00	12,561.83	7,870.00	96.90	112.16	-101.81	-1,076.56	5,181.46	684.23	589.60	94.63	7.230		
12,200.00	7,730.00	12,661.83	7,870.00	96.94	112.18	-101.81	-1,176.56	5,181.13	684.23	587.79	96.44	7.095		
12,300.00	7,730.00	12,761.83	7,870.00	97.00	112.21	-101.81	-1,276.56	5,180.79	684.24	585.90	98.34	6.958		
12,400.00	7,730.00	12,861.83	7,870.00	97.08	112.26	-101.81	-1,376.56	5,180.46	684.24	583.92	100.32	6.820		
12,500.00	7,730.00	12,961.83	7,870.00	97.18	112.33	-101.81	-1,476.56	5,180.12	684.24	581.86	102.38	6.683		
12,600.00	7,730.00	13,061.83	7,870.00	97.31	112.41	-101.81	-1,576.56	5,179.78	684.25	579.72	104.52	6.546		
12,700.00	7,730.00	13,161.83	7,870.00	97.46	112.51	-101.81	-1,676.56	5,179.45	684.25	577.52	106.73	6.411		
12,800.00	7,730.00	13,261.83	7,870.00	97.64	112.63	-101.81	-1,776.56	5,179.11	684.25	575.25	109.00	6.277		
12,900.00	7,730.00	13,361.83	7,870.00	97.85	112.77	-101.81	-1,876.56	5,178.78	684.25	572.91	111.34	6.146		
13,000.00	7,730.00	13,461.83	7,870.00	98.09	112.93	-101.81	-1,976.56	5,178.44	684.26	570.52	113.73	6.016		
13,100.00	7,730.00	13,561.83	7,870.00	98.35	113.11	-101.81	-2,076.55	5,178.11	684.26	568.08	116.18	5.890		
13,200.00	7,730.00	13,661.83	7,870.00	98.65	113.32	-101.81	-2,176.55	5,177.77	684.26	565.58	118.68	5.766		
13,300.00	7,730.00	13,761.83	7,870.00	98.98	113.54	-101.81	-2,276.55	5,177.44	684.27	563.04	121.23	5.644		
13,400.00	7,730.00	13,861.83	7,870.00	99.34	113.79	-101.81	-2,376.55	5,177.10	684.27	560.45	123.82	5.526		
13,500.00	7,730.00	13,961.83	7,870.00	99.74	114.06	-101.81	-2,476.55	5,176.76	684.27	557.82	126.46	5.411		
13,600.00	7,730.00	14,061.83	7,870.00	100.17	114.36	-101.81	-2,576.55	5,176.43	684.28	555.14	129.13	5.299		
13,700.00	7,730.00	14,161.83	7,870.00	100.65	114.69	-101.81	-2,676.55	5,176.09	684.28	552.44	131.84	5.190		
13,800.00	7,730.00	14,261.83	7,870.00	101.16	115.04	-101.81	-2,776.55	5,175.76	684.28	549.69	134.59	5.084		
13,900.00	7,730.00	14,361.83	7,870.00	101.71	115.42	-101.81	-2,876.55	5,175.42	684.29	546.91	137.37	4.981		
14,000.00	7,730.00	14,461.83	7,870.00	102.30	115.83	-101.81	-2,976.55	5,175.09	684.29	544.11	140.18	4.881		
14,100.00	7,730.00	14,561.83	7,870.00	102.93	116.27	-101.81	-3,076.55	5,174.75	684.29	541.27	143.02	4.784		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	14,661.83	7,870.00	103.60	116.74	-101.81	-3,176.55	5,174.41	684.30	538.40	145.89	4.690		
14,300.00	7,730.00	14,761.83	7,870.00	104.32	117.24	-101.81	-3,276.55	5,174.08	684.30	535.51	148.78	4.599		
14,400.00	7,730.00	14,861.83	7,870.00	105.07	117.77	-101.81	-3,376.55	5,173.74	684.30	532.60	151.70	4.511		
14,500.00	7,730.00	14,961.83	7,870.00	105.86	118.33	-101.81	-3,476.55	5,173.41	684.30	529.66	154.64	4.425		
14,600.00	7,730.00	15,061.83	7,870.00	106.70	118.93	-101.81	-3,576.55	5,173.07	684.31	526.70	157.60	4.342		
14,700.00	7,730.00	15,161.83	7,870.00	107.57	119.56	-101.81	-3,676.55	5,172.74	684.31	523.72	160.59	4.261		
14,800.00	7,730.00	15,261.83	7,870.00	108.48	120.22	-101.81	-3,776.55	5,172.40	684.31	520.72	163.59	4.183		
14,900.00	7,730.00	15,361.83	7,870.00	109.43	120.92	-101.81	-3,876.54	5,172.07	684.32	517.71	166.61	4.107		
15,000.00	7,730.00	15,461.83	7,870.00	110.42	121.65	-101.81	-3,976.54	5,171.73	684.32	514.67	169.65	4.034		
15,100.00	7,730.00	15,561.83	7,870.00	111.43	122.41	-101.81	-4,076.54	5,171.39	684.32	511.62	172.70	3.962		
15,200.00	7,730.00	15,661.83	7,870.00	112.49	123.21	-101.80	-4,176.54	5,171.06	684.33	508.55	175.77	3.893		
15,300.00	7,730.00	15,761.83	7,870.00	113.57	124.04	-101.80	-4,276.54	5,170.72	684.33	505.47	178.86	3.826		
15,400.00	7,730.00	15,861.83	7,870.00	114.68	124.90	-101.80	-4,376.54	5,170.39	684.33	502.37	181.96	3.761		
15,500.00	7,730.00	15,961.83	7,870.00	115.82	125.79	-101.80	-4,476.54	5,170.05	684.34	499.27	185.07	3.698		
15,600.00	7,730.00	16,061.83	7,870.00	116.99	126.71	-101.80	-4,576.54	5,169.72	684.34	496.14	188.19	3.636		
15,700.00	7,730.00	16,161.83	7,870.00	118.19	127.67	-101.80	-4,676.54	5,169.38	684.34	493.01	191.33	3.577		
15,800.00	7,730.00	16,261.83	7,870.00	119.41	128.65	-101.80	-4,776.54	5,169.05	684.34	489.86	194.48	3.519		
15,900.00	7,730.00	16,361.83	7,870.00	120.65	129.67	-101.80	-4,876.54	5,168.71	684.35	486.71	197.64	3.463		
16,000.00	7,730.00	16,461.83	7,870.00	121.91	130.71	-101.80	-4,976.54	5,168.37	684.35	483.54	200.81	3.408		
16,100.00	7,730.00	16,561.83	7,870.00	123.20	131.77	-101.80	-5,076.54	5,168.04	684.35	480.36	203.99	3.355		
16,200.00	7,730.00	16,661.83	7,870.00	124.50	132.87	-101.80	-5,176.54	5,167.70	684.36	477.18	207.18	3.303		
16,300.00	7,730.00	16,761.83	7,870.00	125.82	133.99	-101.80	-5,276.54	5,167.37	684.36	473.98	210.38	3.253		
16,400.00	7,730.00	16,861.83	7,870.00	127.16	135.13	-101.80	-5,376.54	5,167.03	684.36	470.78	213.58	3.204		
16,500.00	7,730.00	16,961.83	7,870.00	128.52	136.29	-101.80	-5,476.54	5,166.70	684.37	467.57	216.80	3.157		
16,600.00	7,730.00	17,061.83	7,870.00	129.89	137.48	-101.80	-5,576.54	5,166.36	684.37	464.35	220.02	3.110		
16,700.00	7,730.00	17,161.83	7,870.00	131.27	138.69	-101.80	-5,676.53	5,166.03	684.37	461.12	223.25	3.065		
16,800.00	7,730.00	17,261.83	7,870.00	132.67	139.92	-101.80	-5,776.53	5,165.69	684.38	457.89	226.49	3.022		
16,900.00	7,730.00	17,361.83	7,870.00	134.09	141.17	-101.80	-5,876.53	5,165.35	684.38	454.64	229.73	2.979		
17,000.00	7,730.00	17,461.83	7,870.00	135.51	142.43	-101.80	-5,976.53	5,165.02	684.38	451.40	232.99	2.937		
17,100.00	7,730.00	17,561.83	7,870.00	136.95	143.72	-101.80	-6,076.53	5,164.68	684.38	448.14	236.24	2.897		
17,200.00	7,730.00	17,661.83	7,870.00	138.40	145.02	-101.80	-6,176.53	5,164.35	684.39	444.88	239.51	2.857		
17,300.00	7,730.00	17,761.83	7,870.00	139.85	146.34	-101.80	-6,276.53	5,164.01	684.39	441.61	242.78	2.819		
17,400.00	7,730.00	17,861.83	7,870.00	141.32	147.67	-101.80	-6,376.53	5,163.68	684.39	438.34	246.05	2.782		
17,500.00	7,730.00	17,961.83	7,870.00	142.80	149.02	-101.80	-6,476.53	5,163.34	684.40	435.07	249.33	2.745		
17,600.00	7,730.00	18,061.83	7,870.00	144.28	150.38	-101.80	-6,576.53	5,163.01	684.40	431.78	252.62	2.709		
17,700.00	7,730.00	18,161.83	7,870.00	145.78	151.75	-101.80	-6,676.53	5,162.67	684.40	428.50	255.91	2.674		
17,800.00	7,730.00	18,261.83	7,870.00	147.28	153.14	-101.80	-6,776.53	5,162.33	684.41	425.20	259.20	2.640		
17,900.00	7,730.00	18,361.83	7,870.00	148.79	154.54	-101.80	-6,876.53	5,162.00	684.41	421.91	262.50	2.607		
18,000.00	7,730.00	18,461.83	7,870.00	150.31	155.95	-101.80	-6,976.53	5,161.66	684.41	418.60	265.81	2.575		
18,100.00	7,730.00	18,561.83	7,870.00	151.83	157.37	-101.80	-7,076.53	5,161.33	684.42	415.30	269.12	2.543		
18,200.00	7,730.00	18,661.83	7,870.00	153.37	158.80	-101.80	-7,176.53	5,160.99	684.42	411.99	272.43	2.512		
18,300.00	7,730.00	18,761.83	7,870.00	154.90	160.24	-101.80	-7,276.53	5,160.66	684.42	408.68	275.75	2.482		
18,400.00	7,730.00	18,861.83	7,870.00	156.45	161.69	-101.80	-7,376.53	5,160.32	684.43	405.36	279.07	2.453		
18,500.00	7,730.00	18,961.83	7,870.00	158.00	163.15	-101.80	-7,476.52	5,159.99	684.43	402.04	282.39	2.424		
18,600.00	7,730.00	19,061.83	7,870.00	159.55	164.62	-101.80	-7,576.52	5,159.65	684.43	398.71	285.72	2.395		
18,700.00	7,730.00	19,161.83	7,870.00	161.11	166.10	-101.80	-7,676.52	5,159.31	684.43	395.38	289.05	2.368		
18,800.00	7,730.00	19,261.83	7,870.00	162.68	167.58	-101.80	-7,776.52	5,158.98	684.44	392.05	292.39	2.341		
18,900.00	7,730.00	19,361.83	7,870.00	164.25	169.07	-101.80	-7,876.52	5,158.64	684.44	388.72	295.72	2.314		
19,000.00	7,730.00	19,461.83	7,870.00	165.83	170.57	-101.80	-7,976.52	5,158.31	684.44	385.38	299.07	2.289		
19,100.00	7,730.00	19,561.83	7,870.00	167.41	172.08	-101.80	-8,076.52	5,157.97	684.45	382.04	302.41	2.263		
19,200.00	7,730.00	19,661.83	7,870.00	168.99	173.60	-101.80	-8,176.52	5,157.64	684.45	378.69	305.76	2.239		
19,300.00	7,730.00	19,761.83	7,870.00	170.58	175.12	-101.80	-8,276.52	5,157.30	684.45	375.35	309.11	2.214		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	19,861.83	7,870.00	172.17	176.64	-101.80	-8,376.52	5,156.97	684.46	372.00	312.46	2.191	
19,430.54	7,730.00	19,892.36	7,870.00	172.66	177.11	-101.80	-8,407.06	5,156.86	684.46	370.97	313.48	2.183 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	29.96	29.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	29.96	29.96	29.69	0.27	111.437		
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	29.96	29.96	28.97	0.99	30.392 CC, ES		
300.00	300.00	298.99	298.97	0.85	0.84	88.90	0.60	31.56	31.58	29.88	1.70	18.593		
400.00	400.00	397.75	397.59	1.21	1.20	86.20	2.41	36.34	36.50	34.09	2.41	15.136		
500.00	500.00	496.04	495.51	1.57	1.56	83.04	5.40	44.25	44.81	41.69	3.12	14.347		
600.00	599.98	593.84	592.60	1.92	1.94	15.24	9.56	55.24	54.88	51.05	3.82	14.357		
700.00	699.84	691.32	688.91	2.28	2.35	13.77	14.86	69.27	64.98	60.47	4.51	14.401		
800.00	799.45	788.46	784.33	2.64	2.78	12.87	21.30	86.29	75.07	69.86	5.20	14.425		
900.00	898.70	885.27	878.76	3.02	3.24	12.34	28.85	106.26	85.10	79.20	5.90	14.430		
1,000.00	997.47	981.77	972.11	3.41	3.74	12.07	37.49	129.12	95.07	88.48	6.60	14.414		
1,100.00	1,095.62	1,077.96	1,064.28	3.84	4.28	11.97	47.20	154.82	104.96	97.67	7.29	14.398		
1,200.00	1,193.06	1,173.84	1,155.19	4.29	4.86	12.01	57.97	183.30	114.74	106.74	8.00	14.338		
1,300.00	1,289.64	1,269.42	1,244.75	4.78	5.49	12.14	69.77	214.51	124.43	115.71	8.72	14.269		
1,400.00	1,385.27	1,364.71	1,332.89	5.32	6.17	12.35	82.58	248.39	133.99	124.55	9.45	14.183		
1,500.00	1,479.82	1,459.71	1,419.51	5.90	6.91	12.63	96.37	284.88	143.44	133.25	10.19	14.079		
1,600.00	1,573.17	1,554.44	1,504.54	6.53	7.69	12.95	111.13	323.92	152.76	141.81	10.94	13.957		
1,700.00	1,665.21	1,648.89	1,587.91	7.23	8.54	13.31	126.83	365.44	161.94	150.22	11.72	13.817		
1,800.00	1,755.84	1,743.09	1,669.55	7.98	9.44	13.71	143.44	409.38	170.97	158.46	12.52	13.659		
1,900.00	1,844.94	1,837.02	1,749.38	8.80	10.40	14.14	160.95	455.68	179.86	166.52	13.34	13.483		
2,000.00	1,932.39	1,930.71	1,827.34	9.68	11.42	14.59	179.32	504.28	188.60	174.40	14.19	13.288		
2,100.00	2,018.11	2,024.16	1,903.37	10.63	12.50	15.07	198.53	555.10	197.17	182.10	15.08	13.076		
2,200.00	2,101.97	2,117.38	1,977.40	11.65	13.64	15.56	218.56	608.07	205.59	189.58	16.00	12.846		
2,300.00	2,183.88	2,210.38	2,049.39	12.74	14.83	16.07	239.38	663.14	213.84	196.86	16.97	12.598		
2,400.00	2,263.74	2,303.16	2,119.26	13.90	16.09	16.60	260.96	720.23	221.91	203.92	17.99	12.334		
2,431.61	2,288.54	2,332.44	2,140.90	14.29	16.51	16.77	267.94	738.68	224.43	206.10	18.33	12.246		
2,500.00	2,341.97	2,395.76	2,187.00	15.13	17.41	17.12	283.29	779.29	230.59	211.53	19.05	12.101		
2,600.00	2,420.08	2,504.76	2,258.69	16.37	19.01	17.57	307.68	843.80	240.63	220.20	20.43	11.777		
2,700.00	2,498.20	2,594.71	2,330.38	17.63	20.35	17.98	332.07	908.30	250.69	228.98	21.71	11.545		
2,800.00	2,576.32	2,694.19	2,402.07	18.89	21.83	18.37	356.46	972.81	260.76	237.68	23.08	11.298		
2,900.00	2,654.43	2,806.33	2,473.76	20.17	23.50	18.72	380.84	1,037.32	270.85	246.29	24.56	11.030		
3,000.00	2,732.55	2,906.86	2,545.45	21.45	25.01	19.05	405.23	1,101.83	280.94	254.97	25.97	10.817		
3,100.00	2,810.67	2,992.62	2,617.14	22.74	26.30	19.35	429.62	1,166.34	291.04	263.74	27.30	10.660		
3,200.00	2,888.78	3,092.10	2,688.83	24.03	27.81	19.64	454.01	1,230.85	301.15	272.41	28.74	10.478		
3,300.00	2,966.90	3,191.57	2,760.52	25.33	29.31	19.91	478.40	1,295.36	311.26	281.07	30.19	10.309		
3,400.00	3,045.02	3,308.95	2,832.21	26.63	31.09	20.16	502.78	1,359.86	321.38	289.60	31.79	10.111		
3,500.00	3,123.13	3,390.53	2,903.90	27.94	32.33	20.39	527.17	1,424.37	331.51	298.37	33.14	10.005		
3,600.00	3,201.25	3,509.99	2,975.59	29.24	34.15	20.61	551.56	1,488.88	341.64	306.88	34.76	9.827		
3,700.00	3,279.37	3,589.48	3,047.28	30.55	35.36	20.82	575.95	1,553.39	351.78	315.66	36.12	9.740		
3,800.00	3,357.49	3,688.96	3,118.97	31.86	36.88	21.02	600.34	1,617.90	361.92	324.30	37.62	9.621		
3,900.00	3,435.60	3,788.44	3,190.66	33.18	38.40	21.20	624.73	1,682.41	372.07	332.94	39.13	9.509		
4,000.00	3,513.72	3,887.91	3,262.35	34.49	39.92	21.38	649.11	1,746.92	382.21	341.57	40.64	9.404		
4,100.00	3,591.84	3,987.39	3,334.04	35.81	41.44	21.54	673.50	1,811.42	392.37	350.20	42.17	9.305		
4,200.00	3,669.95	4,086.87	3,405.74	37.12	42.96	21.70	697.89	1,875.93	402.52	358.83	43.70	9.212		
4,300.00	3,748.07	4,186.34	3,477.43	38.44	44.49	21.85	722.28	1,940.44	412.68	367.45	45.23	9.124		
4,400.00	3,826.19	4,285.82	3,549.12	39.76	46.01	22.00	746.67	2,004.95	422.84	376.07	46.77	9.041		
4,500.00	3,904.30	4,385.30	3,620.81	41.08	47.53	22.13	771.05	2,069.46	433.00	384.69	48.31	8.963		
4,600.00	3,982.42	4,484.78	3,692.50	42.40	49.06	22.26	795.44	2,133.97	443.17	393.31	49.86	8.888		
4,700.00	4,060.54	4,584.25	3,764.19	43.72	50.59	22.39	819.83	2,198.48	453.34	401.93	51.41	8.818		
4,800.00	4,138.66	4,683.73	3,835.88	45.05	52.11	22.51	844.22	2,262.98	463.51	410.54	52.96	8.751		
4,900.00	4,216.77	4,783.21	3,907.57	46.37	53.64	22.62	868.61	2,327.49	473.68	419.16	54.52	8.688		
5,000.00	4,294.89	4,882.68	3,979.26	47.69	55.17	22.73	892.99	2,392.00	483.85	427.77	56.08	8.627		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,982.16	4,050.95	49.02	56.70	22.83	917.38	2,456.51	494.03	436.38	57.65	8.570		
5,200.00	4,451.12	5,081.64	4,122.64	50.34	58.23	22.93	941.77	2,521.02	504.20	444.99	59.22	8.515		
5,300.00	4,529.24	5,181.11	4,194.33	51.67	59.76	23.03	966.16	2,585.53	514.38	453.60	60.78	8.462		
5,400.00	4,607.36	5,280.59	4,266.02	52.99	61.28	23.12	990.55	2,650.04	524.56	462.21	62.36	8.412		
5,500.00	4,685.47	5,380.07	4,337.71	54.32	62.81	23.21	1,014.94	2,714.54	534.74	470.81	63.93	8.364		
5,600.00	4,763.59	5,479.55	4,409.40	55.64	64.34	23.30	1,039.32	2,779.05	544.92	479.42	65.51	8.319		
5,700.00	4,841.71	5,579.02	4,481.09	56.97	65.88	23.38	1,063.71	2,843.56	555.11	488.02	67.08	8.275		
5,800.00	4,919.83	5,678.50	4,552.78	58.30	67.41	23.46	1,088.10	2,908.07	565.29	496.63	68.66	8.233		
5,900.00	4,997.94	5,777.98	4,624.48	59.62	68.94	23.54	1,112.49	2,972.58	575.48	505.23	70.25	8.192		
6,000.00	5,076.06	5,877.45	4,696.17	60.95	70.47	23.61	1,136.88	3,037.09	585.66	513.83	71.83	8.153		
6,100.00	5,154.18	5,976.93	4,767.86	62.28	72.00	23.68	1,161.26	3,101.60	595.85	522.44	73.41	8.116		
6,200.00	5,232.29	6,076.41	4,839.55	63.61	73.53	23.75	1,185.65	3,166.10	606.04	531.04	75.00	8.080		
6,300.00	5,310.41	6,175.88	4,911.24	64.93	75.06	23.82	1,210.04	3,230.61	616.23	539.64	76.59	8.046		
6,400.00	5,388.53	6,275.36	4,982.93	66.26	76.59	23.88	1,234.43	3,295.12	626.42	548.24	78.18	8.013		
6,500.00	5,466.64	6,374.84	5,054.62	67.59	78.13	23.95	1,258.82	3,359.63	636.61	556.84	79.77	7.981		
6,600.00	5,544.76	6,474.32	5,126.31	68.92	79.66	24.01	1,283.21	3,424.14	646.80	565.44	81.36	7.950		
6,700.00	5,622.88	6,573.79	5,198.00	70.25	81.19	24.07	1,307.59	3,488.65	656.99	574.04	82.95	7.920		
6,800.00	5,701.00	6,673.27	5,269.69	71.58	82.72	24.12	1,331.98	3,553.16	667.19	582.64	84.55	7.891		
6,900.00	5,779.11	6,772.75	5,341.38	72.91	84.26	24.18	1,356.37	3,617.66	677.38	591.24	86.14	7.863		
7,000.00	5,857.23	6,872.22	5,413.07	74.23	85.79	24.23	1,380.76	3,682.17	687.57	599.83	87.74	7.836		
7,100.00	5,935.35	6,971.70	5,484.76	75.56	87.32	24.28	1,405.15	3,746.68	697.77	608.43	89.34	7.810		
7,200.00	6,013.46	7,071.18	5,556.45	76.89	88.86	24.33	1,429.53	3,811.19	707.96	617.03	90.94	7.785		
7,300.00	6,091.58	7,170.66	5,628.14	78.22	90.39	24.38	1,453.92	3,875.70	718.16	625.62	92.53	7.761		
7,400.00	6,169.70	7,270.13	5,699.83	79.55	91.92	24.43	1,478.31	3,940.21	728.36	634.22	94.13	7.737		
7,500.00	6,247.81	7,369.61	5,771.52	80.88	93.46	24.48	1,502.70	4,004.72	738.55	642.82	95.73	7.715		
7,600.00	6,325.93	7,469.09	5,843.21	82.21	94.99	24.52	1,527.09	4,069.22	748.75	651.41	97.34	7.692		
7,700.00	6,404.05	7,568.56	5,914.91	83.54	96.52	24.57	1,551.48	4,133.73	758.95	660.01	98.94	7.671		
7,800.00	6,482.17	7,668.04	5,986.60	84.87	98.06	24.61	1,575.86	4,198.24	769.14	668.60	100.54	7.650		
7,900.00	6,560.28	7,767.52	6,058.29	86.20	99.59	24.65	1,600.25	4,262.75	779.34	677.20	102.14	7.630		
8,000.00	6,638.40	7,866.99	6,129.98	87.53	101.12	24.69	1,624.64	4,327.26	789.54	685.79	103.75	7.610		
8,100.00	6,716.52	7,966.47	6,201.67	88.86	102.66	24.73	1,649.03	4,391.77	799.74	694.39	105.35	7.591		
8,200.00	6,794.63	8,065.95	6,273.36	90.20	104.19	24.77	1,673.42	4,456.28	809.94	702.98	106.96	7.572		
8,300.00	6,872.75	8,165.43	6,345.05	91.53	105.73	24.81	1,697.80	4,520.78	820.14	711.58	108.57	7.554		
8,400.00	6,950.87	8,264.90	6,416.74	92.86	107.26	24.85	1,722.19	4,585.29	830.34	720.17	110.17	7.537		
8,500.00	7,028.98	8,364.38	6,488.43	94.19	108.79	24.88	1,746.58	4,649.80	840.54	728.76	111.78	7.520		
8,600.00	7,107.10	8,463.86	6,560.12	95.52	110.33	24.92	1,770.97	4,714.31	850.74	737.36	113.39	7.503		
8,647.91	7,144.53	8,511.52	6,594.47	96.16	111.06	24.93	1,782.65	4,745.22	855.63	741.47	114.16	7.495		
8,650.00	7,146.16	8,513.60	6,595.97	96.18	111.09	24.71	1,783.16	4,746.56	855.84	741.65	114.19	7.495		
8,700.00	7,185.66	8,563.30	6,631.78	96.84	111.86	18.88	1,795.35	4,778.79	860.73	746.06	114.67	7.506		
8,750.00	7,225.78	8,612.66	6,667.36	97.47	112.62	12.30	1,807.45	4,810.81	865.24	750.68	114.55	7.553		
8,800.00	7,266.21	8,661.32	6,702.43	98.08	113.37	5.17	1,819.38	4,842.36	869.42	755.57	113.85	7.636		
8,850.00	7,306.63	8,708.90	6,736.72	98.64	114.11	-2.21	1,831.04	4,873.22	873.40	760.80	112.60	7.757		
8,900.00	7,346.75	8,755.04	6,769.97	99.17	114.82	-9.57	1,842.36	4,903.14	877.36	766.51	110.84	7.915		
8,950.00	7,386.25	8,799.39	6,801.93	99.64	115.50	-16.65	1,853.23	4,931.90	881.51	772.85	108.66	8.112		
9,000.00	7,424.84	8,841.61	6,832.36	100.06	116.15	-23.25	1,863.58	4,959.27	886.13	779.95	106.17	8.346		
9,050.00	7,462.22	8,881.37	6,861.01	100.42	116.77	-29.24	1,873.33	4,985.06	891.48	787.96	103.52	8.612		
9,100.00	7,498.11	8,918.39	6,887.69	100.74	117.34	-34.53	1,882.40	5,009.06	897.87	797.00	100.88	8.901		
9,150.00	7,532.24	8,952.36	6,912.18	100.99	117.86	-39.09	1,890.73	5,031.10	905.58	807.12	98.46	9.197		
9,200.00	7,564.34	8,983.05	6,934.29	101.19	118.34	-42.89	1,898.26	5,050.99	914.86	818.38	96.49	9.482		
9,250.00	7,594.17	9,013.70	6,956.40	101.34	118.81	-46.11	1,905.67	5,070.89	925.93	830.70	95.23	9.723		
9,300.00	7,621.50	9,053.59	6,985.50	101.45	119.42	-49.23	1,913.34	5,097.06	938.67	843.68	94.98	9.882		
9,350.00	7,646.13	9,097.70	7,018.05	101.50	120.08	-52.03	1,918.64	5,126.34	952.93	857.32	95.61	9.967		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,148.15	7,055.53	101.51	120.81	-54.65	1,920.54	5,160.02	968.61	871.71	96.89	9.997		
9,450.00	7,686.55	9,208.65	7,100.44	101.48	121.65	-57.32	1,916.98	5,200.37	985.50	887.05	98.44	10.011		
9,500.00	7,702.04	9,286.35	7,157.28	101.42	122.62	-60.36	1,903.11	5,251.41	1,003.25	903.66	99.58	10.074		
9,550.00	7,714.20	9,395.98	7,234.01	101.33	123.79	-64.33	1,866.28	5,320.24	1,021.16	922.06	99.09	10.305		
9,600.00	7,722.96	9,600.00	7,320.06	101.20	125.25	-68.53	1,793.56	5,397.33	1,037.50	940.50	97.00	10.696		
9,650.00	7,728.24	9,856.05	7,456.82	101.06	125.60	-75.36	1,532.75	5,519.35	1,048.62	952.63	95.98	10.925		
9,699.97	7,730.00	10,069.92	7,480.00	100.90	125.16	-76.22	1,322.27	5,539.47	1,049.84	942.46	107.37	9.778		
9,800.00	7,730.00	10,169.95	7,480.00	100.56	124.88	-76.22	1,222.24	5,539.13	1,049.84	943.16	106.68	9.841		
9,900.00	7,730.00	10,269.95	7,480.00	100.24	124.61	-76.22	1,122.24	5,538.80	1,049.84	943.75	106.09	9.896		
10,000.00	7,730.00	10,369.95	7,480.00	99.93	124.34	-76.22	1,022.24	5,538.46	1,049.84	944.24	105.61	9.941		
10,100.00	7,730.00	10,469.95	7,480.00	99.64	124.09	-76.22	922.24	5,538.12	1,049.84	944.61	105.24	9.976		
10,200.00	7,730.00	10,569.95	7,480.00	99.36	123.86	-76.22	822.24	5,537.79	1,049.85	944.86	104.98	10.000		
10,300.00	7,730.00	10,669.95	7,480.00	99.09	123.63	-76.22	722.24	5,537.45	1,049.85	945.01	104.84	10.014		
10,400.00	7,730.00	10,769.95	7,480.00	98.84	123.41	-76.22	622.24	5,537.11	1,049.85	945.04	104.81	10.017		
10,500.00	7,730.00	10,869.95	7,480.00	98.61	123.21	-76.22	522.24	5,536.78	1,049.85	944.96	104.90	10.009		
10,600.00	7,730.00	10,969.95	7,480.00	98.39	123.01	-76.22	422.24	5,536.44	1,049.85	944.76	105.09	9.990		
10,700.00	7,730.00	11,069.95	7,480.00	98.18	122.83	-76.22	322.24	5,536.10	1,049.86	944.45	105.41	9.960		
10,800.00	7,730.00	11,169.95	7,480.00	97.99	122.66	-76.22	222.25	5,535.77	1,049.86	944.03	105.83	9.920		
10,900.00	7,730.00	11,269.95	7,480.00	97.81	122.50	-76.22	122.25	5,535.43	1,049.86	943.49	106.36	9.870		
11,000.00	7,730.00	11,369.95	7,480.00	97.64	122.35	-76.22	22.25	5,535.09	1,049.86	942.85	107.01	9.811		
11,100.00	7,730.00	11,469.95	7,480.00	97.50	122.21	-76.22	-77.75	5,534.76	1,049.86	942.11	107.76	9.743		
11,200.00	7,730.00	11,569.95	7,480.00	97.36	122.08	-76.22	-177.75	5,534.42	1,049.86	941.25	108.61	9.666		
11,300.00	7,730.00	11,669.95	7,480.00	97.24	121.97	-76.22	-277.75	5,534.08	1,049.87	940.30	109.57	9.582		
11,400.00	7,730.00	11,769.95	7,480.00	97.14	121.87	-76.22	-377.75	5,533.75	1,049.87	939.24	110.63	9.490		
11,500.00	7,730.00	11,869.95	7,480.00	97.06	121.78	-76.22	-477.75	5,533.41	1,049.87	938.09	111.78	9.392		
11,600.00	7,730.00	11,969.95	7,480.00	96.98	121.70	-76.22	-577.75	5,533.07	1,049.87	936.84	113.03	9.289		
11,700.00	7,730.00	12,069.95	7,480.00	96.93	121.63	-76.22	-677.75	5,532.74	1,049.87	935.51	114.37	9.180		
11,800.00	7,730.00	12,169.95	7,480.00	96.90	121.57	-76.22	-777.75	5,532.40	1,049.88	934.08	115.79	9.067		
11,900.00	7,730.00	12,269.95	7,480.00	96.88	121.53	-76.22	-877.75	5,532.06	1,049.88	932.57	117.30	8.950		
12,000.00	7,730.00	12,369.95	7,480.00	96.88	121.50	-76.22	-977.75	5,531.72	1,049.88	930.98	118.90	8.830		
12,100.00	7,730.00	12,469.95	7,480.00	96.90	121.48	-76.22	-1,077.75	5,531.39	1,049.88	929.32	120.57	8.708		
12,200.00	7,730.00	12,569.95	7,480.00	96.94	121.48	-76.22	-1,177.75	5,531.05	1,049.88	927.57	122.31	8.584		
12,300.00	7,730.00	12,669.95	7,480.00	97.00	121.49	-76.22	-1,277.75	5,530.71	1,049.89	925.76	124.13	8.458		
12,400.00	7,730.00	12,769.95	7,480.00	97.08	121.52	-76.22	-1,377.75	5,530.38	1,049.89	923.88	126.01	8.332		
12,500.00	7,730.00	12,869.95	7,480.00	97.18	121.55	-76.22	-1,477.74	5,530.04	1,049.89	921.93	127.96	8.205		
12,600.00	7,730.00	12,969.95	7,480.00	97.31	121.61	-76.22	-1,577.74	5,529.70	1,049.89	919.92	129.97	8.078		
12,700.00	7,730.00	13,069.95	7,480.00	97.46	121.68	-76.22	-1,677.74	5,529.37	1,049.89	917.85	132.05	7.951		
12,800.00	7,730.00	13,169.95	7,480.00	97.64	121.76	-76.22	-1,777.74	5,529.03	1,049.90	915.72	134.17	7.825		
12,900.00	7,730.00	13,269.95	7,480.00	97.85	121.86	-76.22	-1,877.74	5,528.69	1,049.90	913.54	136.36	7.700		
13,000.00	7,730.00	13,369.95	7,480.00	98.09	121.98	-76.22	-1,977.74	5,528.36	1,049.90	911.31	138.59	7.575		
13,100.00	7,730.00	13,469.95	7,480.00	98.35	122.11	-76.22	-2,077.74	5,528.02	1,049.90	909.02	140.88	7.453		
13,200.00	7,730.00	13,569.95	7,480.00	98.65	122.27	-76.22	-2,177.74	5,527.68	1,049.90	906.70	143.21	7.331		
13,300.00	7,730.00	13,669.95	7,480.00	98.98	122.44	-76.22	-2,277.74	5,527.35	1,049.90	904.32	145.58	7.212		
13,400.00	7,730.00	13,769.95	7,480.00	99.34	122.63	-76.22	-2,377.74	5,527.01	1,049.91	901.91	148.00	7.094		
13,500.00	7,730.00	13,869.95	7,480.00	99.74	122.84	-76.22	-2,477.74	5,526.67	1,049.91	899.45	150.46	6.978		
13,600.00	7,730.00	13,969.95	7,480.00	100.17	123.07	-76.22	-2,577.74	5,526.34	1,049.91	896.95	152.96	6.864		
13,700.00	7,730.00	14,069.95	7,480.00	100.65	123.32	-76.22	-2,677.74	5,526.00	1,049.91	894.42	155.49	6.752		
13,800.00	7,730.00	14,169.95	7,480.00	101.16	123.59	-76.22	-2,777.74	5,525.66	1,049.91	891.86	158.06	6.643		
13,900.00	7,730.00	14,269.95	7,480.00	101.71	123.89	-76.22	-2,877.74	5,525.33	1,049.92	889.26	160.66	6.535		
14,000.00	7,730.00	14,369.95	7,480.00	102.30	124.21	-76.22	-2,977.74	5,524.99	1,049.92	886.63	163.29	6.430		
14,100.00	7,730.00	14,469.95	7,480.00	102.93	124.55	-76.22	-3,077.74	5,524.65	1,049.92	883.96	165.96	6.327		
14,200.00	7,730.00	14,569.95	7,480.00	103.60	124.92	-76.22	-3,177.74	5,524.32	1,049.92	881.27	168.65	6.226		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	14,669.95	7,480.00	104.32	125.32	-76.22	-3,277.73	5,523.98	1,049.92	878.56	171.37	6.127		
14,400.00	7,730.00	14,769.95	7,480.00	105.07	125.74	-76.22	-3,377.73	5,523.64	1,049.93	875.81	174.11	6.030		
14,500.00	7,730.00	14,869.95	7,480.00	105.86	126.18	-76.22	-3,477.73	5,523.31	1,049.93	873.05	176.88	5.936		
14,600.00	7,730.00	14,969.95	7,480.00	106.70	126.66	-76.22	-3,577.73	5,522.97	1,049.93	870.25	179.67	5.844		
14,700.00	7,730.00	15,069.95	7,480.00	107.57	127.16	-76.22	-3,677.73	5,522.63	1,049.93	867.44	182.49	5.753		
14,800.00	7,730.00	15,169.95	7,480.00	108.48	127.70	-76.22	-3,777.73	5,522.29	1,049.93	864.60	185.33	5.665		
14,900.00	7,730.00	15,269.95	7,480.00	109.43	128.26	-76.22	-3,877.73	5,521.96	1,049.94	861.75	188.19	5.579		
15,000.00	7,730.00	15,369.95	7,480.00	110.42	128.85	-76.23	-3,977.73	5,521.62	1,049.94	858.87	191.06	5.495		
15,100.00	7,730.00	15,469.95	7,480.00	111.43	129.47	-76.23	-4,077.73	5,521.28	1,049.94	855.98	193.96	5.413		
15,200.00	7,730.00	15,569.95	7,480.00	112.49	130.12	-76.23	-4,177.73	5,520.95	1,049.94	853.07	196.88	5.333		
15,300.00	7,730.00	15,669.95	7,480.00	113.57	130.80	-76.23	-4,277.73	5,520.61	1,049.94	850.14	199.81	5.255		
15,400.00	7,730.00	15,769.95	7,480.00	114.68	131.52	-76.23	-4,377.73	5,520.27	1,049.94	847.19	202.76	5.178		
15,500.00	7,730.00	15,869.95	7,480.00	115.82	132.26	-76.23	-4,477.73	5,519.94	1,049.95	844.23	205.72	5.104		
15,600.00	7,730.00	15,969.95	7,480.00	116.99	133.03	-76.23	-4,577.73	5,519.60	1,049.95	841.25	208.70	5.031		
15,700.00	7,730.00	16,069.95	7,480.00	118.19	133.84	-76.23	-4,677.73	5,519.26	1,049.95	838.26	211.69	4.960		
15,800.00	7,730.00	16,169.95	7,480.00	119.41	134.67	-76.23	-4,777.73	5,518.93	1,049.95	835.25	214.70	4.890		
15,900.00	7,730.00	16,269.95	7,480.00	120.65	135.53	-76.23	-4,877.73	5,518.59	1,049.95	832.23	217.72	4.822		
16,000.00	7,730.00	16,369.95	7,480.00	121.91	136.43	-76.23	-4,977.73	5,518.25	1,049.96	829.20	220.75	4.756		
16,100.00	7,730.00	16,469.95	7,480.00	123.20	137.35	-76.23	-5,077.72	5,517.92	1,049.96	826.16	223.80	4.692		
16,200.00	7,730.00	16,569.95	7,480.00	124.50	138.30	-76.23	-5,177.72	5,517.58	1,049.96	823.10	226.86	4.628		
16,300.00	7,730.00	16,669.95	7,480.00	125.82	139.28	-76.23	-5,277.72	5,517.24	1,049.96	820.04	229.92	4.567		
16,400.00	7,730.00	16,769.95	7,480.00	127.16	140.28	-76.23	-5,377.72	5,516.91	1,049.96	816.96	233.00	4.506		
16,500.00	7,730.00	16,869.95	7,480.00	128.52	141.31	-76.23	-5,477.72	5,516.57	1,049.97	813.87	236.09	4.447		
16,600.00	7,730.00	16,969.95	7,480.00	129.89	142.37	-76.23	-5,577.72	5,516.23	1,049.97	810.78	239.19	4.390		
16,700.00	7,730.00	17,069.95	7,480.00	131.27	143.45	-76.23	-5,677.72	5,515.90	1,049.97	807.67	242.30	4.333		
16,800.00	7,730.00	17,169.95	7,480.00	132.67	144.55	-76.23	-5,777.72	5,515.56	1,049.97	804.55	245.42	4.278		
16,900.00	7,730.00	17,269.95	7,480.00	134.09	145.68	-76.23	-5,877.72	5,515.22	1,049.97	801.43	248.55	4.224		
17,000.00	7,730.00	17,369.95	7,480.00	135.51	146.83	-76.23	-5,977.72	5,514.89	1,049.97	798.29	251.68	4.172		
17,100.00	7,730.00	17,469.95	7,480.00	136.95	148.00	-76.23	-6,077.72	5,514.55	1,049.98	795.15	254.83	4.120		
17,200.00	7,730.00	17,569.95	7,480.00	138.40	149.19	-76.23	-6,177.72	5,514.21	1,049.98	792.00	257.98	4.070		
17,300.00	7,730.00	17,669.95	7,480.00	139.85	150.41	-76.23	-6,277.72	5,513.88	1,049.98	788.84	261.14	4.021		
17,400.00	7,730.00	17,769.95	7,480.00	141.32	151.64	-76.23	-6,377.72	5,513.54	1,049.98	785.68	264.30	3.973		
17,500.00	7,730.00	17,869.95	7,480.00	142.80	152.88	-76.23	-6,477.72	5,513.20	1,049.98	782.51	267.48	3.926		
17,600.00	7,730.00	17,969.95	7,480.00	144.28	154.15	-76.23	-6,577.72	5,512.87	1,049.99	779.33	270.66	3.879		
17,700.00	7,730.00	18,069.95	7,480.00	145.78	155.43	-76.23	-6,677.72	5,512.53	1,049.99	776.14	273.85	3.834		
17,800.00	7,730.00	18,169.95	7,480.00	147.28	156.73	-76.23	-6,777.71	5,512.19	1,049.99	772.95	277.04	3.790		
17,900.00	7,730.00	18,269.95	7,480.00	148.79	158.04	-76.23	-6,877.71	5,511.85	1,049.99	769.75	280.24	3.747		
18,000.00	7,730.00	18,369.95	7,480.00	150.31	159.37	-76.23	-6,977.71	5,511.52	1,049.99	766.55	283.44	3.704		
18,100.00	7,730.00	18,469.95	7,480.00	151.83	160.72	-76.23	-7,077.71	5,511.18	1,050.00	763.34	286.66	3.663		
18,200.00	7,730.00	18,569.95	7,480.00	153.37	162.07	-76.23	-7,177.71	5,510.84	1,050.00	760.12	289.87	3.622		
18,300.00	7,730.00	18,669.95	7,480.00	154.90	163.44	-76.23	-7,277.71	5,510.51	1,050.00	756.90	293.10	3.582		
18,400.00	7,730.00	18,769.95	7,480.00	156.45	164.82	-76.23	-7,377.71	5,510.17	1,050.00	753.68	296.32	3.543		
18,500.00	7,730.00	18,869.95	7,480.00	158.00	166.21	-76.23	-7,477.71	5,509.83	1,050.00	750.45	299.56	3.505		
18,600.00	7,730.00	18,969.95	7,480.00	159.55	167.62	-76.23	-7,577.71	5,509.50	1,050.01	747.21	302.79	3.468		
18,700.00	7,730.00	19,069.95	7,480.00	161.11	169.03	-76.23	-7,677.71	5,509.16	1,050.01	743.97	306.04	3.431		
18,800.00	7,730.00	19,169.95	7,480.00	162.68	170.46	-76.23	-7,777.71	5,508.82	1,050.01	740.73	309.28	3.395		
18,900.00	7,730.00	19,269.95	7,480.00	164.25	171.89	-76.23	-7,877.71	5,508.49	1,050.01	737.48	312.53	3.360		
19,000.00	7,730.00	19,369.95	7,480.00	165.83	173.33	-76.23	-7,977.71	5,508.15	1,050.01	734.22	315.79	3.325		
19,100.00	7,730.00	19,469.95	7,480.00	167.41	174.79	-76.23	-8,077.71	5,507.81	1,050.01	730.97	319.05	3.291		
19,200.00	7,730.00	19,569.95	7,480.00	168.99	176.25	-76.23	-8,177.71	5,507.48	1,050.02	727.70	322.31	3.258		
19,300.00	7,730.00	19,669.95	7,480.00	170.58	177.72	-76.23	-8,277.71	5,507.14	1,050.02	724.44	325.58	3.225		
19,400.00	7,730.00	19,769.95	7,480.00	172.17	179.20	-76.23	-8,377.71	5,506.80	1,050.02	721.17	328.85	3.193		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,430.54	7,730.00	19,800.49	7,480.00	172.66	179.65	-76.23	-8,408.24	5,506.70	1,050.02	720.17	329.85	3.183 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.52	-0.36	40.04	40.04					
100.00	100.00	100.00	100.00	0.13	0.13	90.52	-0.36	40.04	40.04	39.77	0.27	148.936	CC, ES	
200.00	200.00	198.67	198.65	0.49	0.49	89.72	0.20	41.64	41.66	40.68	0.99	42.282		
300.00	300.00	297.10	296.94	0.85	0.85	87.65	1.90	46.43	46.57	44.86	1.70	27.346		
400.00	400.00	395.06	394.54	1.21	1.21	85.04	4.72	54.35	54.82	52.41	2.42	22.666		
500.00	500.00	492.35	491.12	1.57	1.60	82.49	8.61	65.32	66.48	63.35	3.13	21.231		
600.00	599.98	588.99	586.62	1.92	2.00	15.19	13.56	79.27	79.87	76.04	3.83	20.862		
700.00	699.84	685.21	681.15	2.28	2.44	13.98	19.56	96.17	93.25	88.74	4.52	20.649		
800.00	799.45	781.00	774.61	2.64	2.91	13.24	26.59	115.96	106.59	101.38	5.21	20.472		
900.00	898.70	876.38	866.92	3.02	3.41	12.81	34.62	138.58	119.84	113.94	5.90	20.310		
1,000.00	997.47	971.36	957.99	3.41	3.95	12.58	43.63	163.96	132.98	126.39	6.59	20.171		
1,100.00	1,095.62	1,065.95	1,047.75	3.84	4.53	12.52	53.61	192.06	146.00	138.70	7.30	20.008		
1,200.00	1,193.06	1,160.15	1,136.11	4.29	5.16	12.56	64.52	222.79	158.88	150.87	8.01	19.840		
1,300.00	1,289.64	1,253.97	1,223.01	4.78	5.84	12.70	76.35	256.12	171.60	162.87	8.73	19.663		
1,400.00	1,385.27	1,347.43	1,308.38	5.32	6.57	12.90	89.07	291.96	184.16	174.70	9.46	19.474		
1,500.00	1,479.82	1,440.53	1,392.14	5.90	7.35	13.16	102.67	330.25	196.55	186.35	10.20	19.269		
1,600.00	1,573.17	1,533.29	1,474.24	6.53	8.18	13.47	117.11	370.93	208.75	197.79	10.96	19.047		
1,700.00	1,665.21	1,625.71	1,554.60	7.23	9.06	13.81	132.38	413.94	220.77	209.03	11.74	18.808		
1,800.00	1,755.84	1,717.80	1,633.18	7.98	10.00	14.18	148.45	459.20	232.59	220.05	12.54	18.550		
1,900.00	1,844.94	1,809.58	1,709.91	8.80	11.00	14.58	165.30	506.65	244.20	230.84	13.36	18.273		
2,000.00	1,932.39	1,901.06	1,784.74	9.68	12.05	15.00	182.90	556.22	255.60	241.38	14.22	17.976		
2,100.00	2,018.11	1,992.24	1,857.62	10.63	13.16	15.45	201.23	607.85	266.79	251.68	15.11	17.657		
2,200.00	2,101.97	2,083.14	1,928.50	11.65	14.34	15.91	220.27	661.47	277.75	261.71	16.04	17.318		
2,300.00	2,183.88	2,173.77	1,997.34	12.74	15.56	16.39	239.98	717.01	288.48	271.47	17.01	16.961		
2,400.00	2,263.74	2,264.13	2,064.09	13.90	16.84	16.88	260.36	774.41	298.98	280.95	18.03	16.585		
2,431.61	2,288.54	2,292.69	2,084.79	14.29	17.25	17.04	266.95	792.96	302.25	283.89	18.36	16.463		
2,500.00	2,341.97	2,360.69	2,133.83	15.13	18.26	17.45	282.71	837.34	309.29	290.03	19.26	16.057		
2,600.00	2,420.08	2,460.10	2,205.53	16.37	19.74	18.03	305.75	902.24	319.62	299.01	20.61	15.507		
2,700.00	2,498.20	2,559.52	2,277.23	17.63	21.22	18.57	328.78	967.13	329.98	307.98	21.99	15.003		
2,800.00	2,576.32	2,658.93	2,348.94	18.89	22.72	19.08	351.82	1,032.03	340.36	316.96	23.41	14.541		
2,900.00	2,654.43	2,758.35	2,420.64	20.17	24.21	19.56	374.86	1,096.92	350.77	325.93	24.85	14.118		
3,000.00	2,732.55	2,857.76	2,492.34	21.45	25.72	20.01	397.90	1,161.81	361.20	334.89	26.31	13.729		
3,100.00	2,810.67	2,957.18	2,564.05	22.74	27.23	20.43	420.94	1,226.71	371.66	343.86	27.80	13.371		
3,200.00	2,888.78	3,056.59	2,635.75	24.03	28.74	20.83	443.98	1,291.60	382.13	352.83	29.30	13.041		
3,300.00	2,966.90	3,156.01	2,707.45	25.33	30.25	21.21	467.02	1,356.50	392.62	361.79	30.83	12.736		
3,400.00	3,045.02	3,255.43	2,779.16	26.63	31.77	21.57	490.06	1,421.39	403.12	370.75	32.37	12.454		
3,500.00	3,123.13	3,354.84	2,850.86	27.94	33.29	21.91	513.10	1,486.28	413.65	379.72	33.93	12.192		
3,600.00	3,201.25	3,454.26	2,922.56	29.24	34.81	22.24	536.14	1,551.18	424.18	388.68	35.50	11.949		
3,700.00	3,279.37	3,553.67	2,994.27	30.55	36.33	22.55	559.18	1,616.07	434.73	397.64	37.08	11.723		
3,800.00	3,357.49	3,653.09	3,065.97	31.86	37.85	22.84	582.22	1,680.97	445.29	406.61	38.68	11.512		
3,900.00	3,435.60	3,752.50	3,137.67	33.18	39.38	23.12	605.26	1,745.86	455.86	415.57	40.29	11.315		
4,000.00	3,513.72	3,851.92	3,209.38	34.49	40.90	23.39	628.30	1,810.75	466.44	424.53	41.91	11.130		
4,100.00	3,591.84	3,951.33	3,281.08	35.81	42.43	23.65	651.34	1,875.65	477.03	433.49	43.54	10.957		
4,200.00	3,669.95	4,050.75	3,352.78	37.12	43.96	23.89	674.38	1,940.54	487.63	442.45	45.17	10.794		
4,300.00	3,748.07	4,150.17	3,424.49	38.44	45.49	24.13	697.42	2,005.44	498.24	451.42	46.82	10.641		
4,400.00	3,826.19	4,249.58	3,496.19	39.76	47.02	24.35	720.46	2,070.33	508.85	460.38	48.47	10.497		
4,500.00	3,904.30	4,349.00	3,567.89	41.08	48.55	24.57	743.50	2,135.22	519.47	469.34	50.14	10.361		
4,600.00	3,982.42	4,448.41	3,639.60	42.40	50.08	24.78	766.54	2,200.12	530.10	478.30	51.80	10.233		
4,700.00	4,060.54	4,547.83	3,711.30	43.72	51.61	24.97	789.58	2,265.01	540.74	487.26	53.48	10.111		
4,800.00	4,138.66	4,647.24	3,783.00	45.05	53.14	25.17	812.62	2,329.91	551.38	496.23	55.16	9.996		
4,900.00	4,216.77	4,746.66	3,854.71	46.37	54.67	25.35	835.66	2,394.80	562.03	505.19	56.85	9.887		
5,000.00	4,294.89	4,846.07	3,926.41	47.69	56.20	25.53	858.70	2,459.69	572.69	514.15	58.54	9.783		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,945.49	3,998.12	49.02	57.74	25.70	881.74	2,524.59	583.35	523.11	60.23	9.685		
5,200.00	4,451.12	5,044.90	4,069.82	50.34	59.27	25.86	904.77	2,589.48	594.01	532.08	61.93	9.591		
5,300.00	4,529.24	5,144.32	4,141.52	51.67	60.80	26.02	927.81	2,654.38	604.68	541.04	63.64	9.502		
5,400.00	4,607.36	5,243.74	4,213.23	52.99	62.34	26.17	950.85	2,719.27	615.36	550.00	65.35	9.416		
5,500.00	4,685.47	5,343.15	4,284.93	54.32	63.87	26.32	973.89	2,784.16	626.03	558.97	67.06	9.335		
5,600.00	4,763.59	5,442.57	4,356.63	55.64	65.40	26.46	996.93	2,849.06	636.71	567.93	68.78	9.257		
5,700.00	4,841.71	5,541.98	4,428.34	56.97	66.94	26.60	1,019.97	2,913.95	647.40	576.90	70.50	9.183		
5,800.00	4,919.83	5,641.40	4,500.04	58.30	68.47	26.74	1,043.01	2,978.85	658.09	585.86	72.23	9.111		
5,900.00	4,997.94	5,740.81	4,571.74	59.62	70.01	26.87	1,066.05	3,043.74	668.78	594.83	73.96	9.043		
6,000.00	5,076.06	5,840.23	4,643.45	60.95	71.54	26.99	1,089.09	3,108.63	679.48	603.79	75.69	8.977		
6,100.00	5,154.18	5,939.64	4,715.15	62.28	73.08	27.11	1,112.13	3,173.53	690.18	612.76	77.42	8.915		
6,200.00	5,232.29	6,039.06	4,786.85	63.61	74.62	27.23	1,135.17	3,238.42	700.88	621.72	79.16	8.854		
6,300.00	5,310.41	6,138.47	4,858.56	64.93	76.15	27.35	1,158.21	3,303.32	711.58	630.69	80.90	8.796		
6,400.00	5,388.53	6,237.89	4,930.26	66.26	77.69	27.46	1,181.25	3,368.21	722.29	639.65	82.64	8.740		
6,500.00	5,466.64	6,337.31	5,001.96	67.59	79.22	27.56	1,204.29	3,433.10	733.00	648.62	84.38	8.687		
6,600.00	5,544.76	6,436.72	5,073.67	68.92	80.76	27.67	1,227.33	3,498.00	743.72	657.59	86.13	8.635		
6,700.00	5,622.88	6,536.14	5,145.37	70.25	82.30	27.77	1,250.37	3,562.89	754.43	666.55	87.88	8.585		
6,800.00	5,701.00	6,635.55	5,217.07	71.58	83.83	27.87	1,273.41	3,627.79	765.15	675.52	89.63	8.537		
6,900.00	5,779.11	6,734.97	5,288.78	72.91	85.37	27.97	1,296.45	3,692.68	775.87	684.48	91.38	8.490		
7,000.00	5,857.23	6,834.38	5,360.48	74.23	86.91	28.06	1,319.49	3,757.57	786.59	693.45	93.14	8.445		
7,100.00	5,935.35	6,933.80	5,432.18	75.56	88.44	28.15	1,342.53	3,822.47	797.31	702.42	94.89	8.402		
7,200.00	6,013.46	7,033.21	5,503.89	76.89	89.98	28.24	1,365.57	3,887.36	808.04	711.39	96.65	8.360		
7,300.00	6,091.58	7,132.63	5,575.59	78.22	91.52	28.33	1,388.61	3,952.26	818.77	720.35	98.41	8.320		
7,400.00	6,169.70	7,232.05	5,647.29	79.55	93.05	28.41	1,411.65	4,017.15	829.50	729.32	100.17	8.281		
7,500.00	6,247.81	7,331.46	5,719.00	80.88	94.59	28.49	1,434.69	4,082.05	840.23	738.29	101.94	8.243		
7,600.00	6,325.93	7,430.88	5,790.70	82.21	96.13	28.57	1,457.73	4,146.94	850.96	747.26	103.70	8.206		
7,700.00	6,404.05	7,530.29	5,862.40	83.54	97.66	28.65	1,480.77	4,211.83	861.69	756.23	105.47	8.170		
7,800.00	6,482.17	7,629.71	5,934.11	84.87	99.20	28.72	1,503.80	4,276.73	872.43	765.19	107.24	8.136		
7,900.00	6,560.28	7,729.12	6,005.81	86.20	100.74	28.80	1,526.84	4,341.62	883.17	774.16	109.00	8.102		
8,000.00	6,638.40	7,828.54	6,077.51	87.53	102.28	28.87	1,549.88	4,406.52	893.91	783.13	110.77	8.070		
8,100.00	6,716.52	7,927.95	6,149.22	88.86	103.81	28.94	1,572.92	4,471.41	904.65	792.10	112.55	8.038		
8,200.00	6,794.63	8,027.37	6,220.92	90.20	105.35	29.01	1,595.96	4,536.30	915.39	801.07	114.32	8.007		
8,300.00	6,872.75	8,126.78	6,292.62	91.53	106.89	29.08	1,619.00	4,601.20	926.13	810.04	116.09	7.978		
8,400.00	6,950.87	8,226.20	6,364.33	92.86	108.43	29.14	1,642.04	4,666.09	936.87	819.01	117.87	7.949		
8,500.00	7,028.98	8,325.62	6,436.03	94.19	109.97	29.21	1,665.08	4,730.99	947.62	827.98	119.64	7.920		
8,600.00	7,107.10	8,425.03	6,507.73	95.52	111.50	29.27	1,688.12	4,795.88	958.36	836.94	121.42	7.893		
8,647.91	7,144.53	8,472.66	6,542.09	96.16	112.24	29.30	1,699.16	4,826.97	963.51	841.24	122.27	7.880		
8,650.00	7,146.16	8,474.74	6,543.59	96.18	112.27	29.08	1,699.64	4,828.33	963.74	841.43	122.31	7.880		
8,700.00	7,185.66	8,524.44	6,579.43	96.84	113.04	23.29	1,711.16	4,860.77	968.72	845.83	122.89	7.883		
8,750.00	7,225.78	8,573.87	6,615.09	97.47	113.81	16.74	1,722.62	4,893.04	972.98	850.07	122.91	7.916		
8,800.00	7,266.21	8,622.65	6,650.27	98.08	114.56	9.65	1,733.92	4,924.88	976.57	854.21	122.36	7.981		
8,850.00	7,306.63	8,670.41	6,684.71	98.64	115.30	2.28	1,744.99	4,956.05	979.60	858.33	121.26	8.078		
8,900.00	7,346.75	8,716.79	6,718.16	99.17	116.02	-5.07	1,755.74	4,986.32	982.21	862.57	119.64	8.210		
8,950.00	7,386.25	8,761.42	6,750.36	99.64	116.71	-12.17	1,766.08	5,015.46	984.61	867.09	117.52	8.378		
9,000.00	7,424.84	8,803.99	6,781.06	100.06	117.37	-18.83	1,775.94	5,043.24	987.04	872.06	114.99	8.584		
9,050.00	7,462.22	8,844.15	6,810.02	100.42	117.99	-24.93	1,785.25	5,069.46	989.78	877.67	112.12	8.828		
9,100.00	7,498.11	8,881.60	6,837.04	100.74	118.57	-30.38	1,793.93	5,093.91	993.11	884.07	109.04	9.108		
9,150.00	7,532.24	8,916.07	6,861.90	100.99	119.10	-35.15	1,801.92	5,116.41	997.32	891.42	105.89	9.418		
9,200.00	7,564.34	8,947.28	6,884.41	101.19	119.58	-39.22	1,809.15	5,136.78	1,002.68	899.82	102.86	9.748		
9,250.00	7,594.17	8,975.00	6,904.40	101.34	120.01	-42.58	1,815.58	5,154.87	1,009.45	909.31	100.14	10.080		
9,300.00	7,621.50	8,999.02	6,921.72	101.45	120.38	-45.22	1,821.14	5,170.55	1,017.84	919.91	97.93	10.393		
9,350.00	7,646.13	9,019.15	6,936.24	101.50	120.69	-47.14	1,825.81	5,183.69	1,028.02	931.61	96.41	10.663		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,035.25	6,947.85	101.51	120.94	-48.34	1,829.54	5,194.20	1,040.09	944.37	95.72	10.866		
9,450.00	7,686.55	9,047.18	6,956.46	101.48	121.13	-48.82	1,832.31	5,201.99	1,054.08	958.16	95.92	10.989		
9,500.00	7,702.04	9,054.86	6,962.00	101.42	121.25	-48.59	1,834.09	5,207.01	1,069.94	972.94	97.00	11.030		
9,550.00	7,714.20	9,058.24	6,964.43	101.33	121.30	-47.66	1,834.87	5,209.21	1,087.58	988.68	98.89	10.997		
9,600.00	7,722.96	9,057.27	6,963.74	101.20	121.28	-46.07	1,834.64	5,208.58	1,106.81	1,005.36	101.45	10.910		
9,650.00	7,728.24	9,051.98	6,959.93	101.06	121.20	-43.85	1,833.42	5,205.13	1,127.40	1,022.89	104.51	10.787		
9,699.97	7,730.00	9,042.41	6,953.02	100.90	121.05	-41.08	1,831.20	5,198.88	1,149.05	1,041.15	107.90	10.649		
9,800.00	7,730.00	9,019.01	6,936.14	100.56	120.69	-39.83	1,825.78	5,183.60	1,196.40	1,081.12	115.28	10.378		
9,900.00	7,730.00	9,004.39	6,919.27	100.24	120.47	-38.58	1,820.35	5,168.33	1,249.51	1,126.48	123.03	10.156		
10,000.00	7,730.00	8,972.22	6,902.39	99.93	119.97	-37.35	1,814.93	5,153.06	1,307.71	1,177.23	130.48	10.022		
10,100.00	7,730.00	8,948.82	6,885.52	99.64	119.61	-36.12	1,809.51	5,137.79	1,370.35	1,232.79	137.56	9.962		
10,200.00	7,730.00	10,960.46	7,730.00	99.36	131.85	-90.00	821.01	5,897.81	1,379.67	1,283.16	96.52	14.295		
10,300.00	7,730.00	11,060.46	7,730.00	99.09	131.64	-90.00	721.01	5,897.48	1,379.67	1,283.63	96.04	14.365		
10,400.00	7,730.00	11,160.46	7,730.00	98.84	131.43	-90.00	621.01	5,897.14	1,379.68	1,283.98	95.70	14.417		
10,500.00	7,730.00	11,260.46	7,730.00	98.61	131.24	-90.00	521.02	5,896.80	1,379.68	1,284.19	95.49	14.449		
10,600.00	7,730.00	11,360.46	7,730.00	98.39	131.05	-90.00	421.02	5,896.46	1,379.68	1,284.27	95.40	14.462		
10,700.00	7,730.00	11,460.46	7,730.00	98.18	130.88	-90.00	321.02	5,896.12	1,379.68	1,284.23	95.45	14.454		
10,800.00	7,730.00	11,560.46	7,730.00	97.99	130.72	-90.00	221.02	5,895.79	1,379.68	1,284.05	95.63	14.427		
10,900.00	7,730.00	11,660.46	7,730.00	97.81	130.57	-90.00	121.02	5,895.45	1,379.68	1,283.74	95.94	14.381		
11,000.00	7,730.00	11,760.46	7,730.00	97.64	130.42	-90.00	21.02	5,895.11	1,379.68	1,283.30	96.38	14.316		
11,100.00	7,730.00	11,860.46	7,730.00	97.50	130.29	-90.00	-78.98	5,894.77	1,379.68	1,282.74	96.94	14.232		
11,200.00	7,730.00	11,960.46	7,730.00	97.36	130.17	-90.00	-178.98	5,894.43	1,379.68	1,282.05	97.63	14.132		
11,300.00	7,730.00	12,060.46	7,730.00	97.24	130.06	-90.00	-278.98	5,894.10	1,379.68	1,281.24	98.44	14.015		
11,400.00	7,730.00	12,160.46	7,730.00	97.14	129.96	-90.00	-378.98	5,893.76	1,379.68	1,280.31	99.37	13.884		
11,500.00	7,730.00	12,260.46	7,730.00	97.06	129.88	-90.00	-478.98	5,893.42	1,379.68	1,279.26	100.42	13.739		
11,600.00	7,730.00	12,360.46	7,730.00	96.98	129.80	-90.00	-578.98	5,893.08	1,379.69	1,278.10	101.58	13.582		
11,700.00	7,730.00	12,460.46	7,730.00	96.93	129.74	-90.00	-678.98	5,892.74	1,379.69	1,276.84	102.85	13.415		
11,800.00	7,730.00	12,560.46	7,730.00	96.90	129.68	-90.00	-778.98	5,892.41	1,379.69	1,275.46	104.22	13.238		
11,900.00	7,730.00	12,660.46	7,730.00	96.88	129.64	-90.00	-878.98	5,892.07	1,379.69	1,273.99	105.70	13.053		
12,000.00	7,730.00	12,760.46	7,730.00	96.88	129.61	-90.00	-978.98	5,891.73	1,379.69	1,272.42	107.26	12.862		
12,100.00	7,730.00	12,860.46	7,730.00	96.90	129.59	-90.00	-1,078.98	5,891.39	1,379.69	1,270.76	108.93	12.666		
12,200.00	7,730.00	12,960.46	7,730.00	96.94	129.59	-90.00	-1,178.98	5,891.05	1,379.69	1,269.01	110.68	12.466		
12,300.00	7,730.00	13,060.46	7,730.00	97.00	129.59	-90.00	-1,278.97	5,890.72	1,379.69	1,267.18	112.51	12.263		
12,400.00	7,730.00	13,160.46	7,730.00	97.08	129.61	-90.00	-1,378.97	5,890.38	1,379.69	1,265.27	114.42	12.058		
12,500.00	7,730.00	13,260.46	7,730.00	97.18	129.65	-90.00	-1,478.97	5,890.04	1,379.69	1,263.28	116.41	11.852		
12,600.00	7,730.00	13,360.46	7,730.00	97.31	129.69	-90.00	-1,578.97	5,889.70	1,379.69	1,261.22	118.47	11.646		
12,700.00	7,730.00	13,460.46	7,730.00	97.46	129.75	-90.00	-1,678.97	5,889.37	1,379.69	1,259.09	120.60	11.440		
12,800.00	7,730.00	13,560.46	7,730.00	97.64	129.83	-90.00	-1,778.97	5,889.03	1,379.69	1,256.90	122.79	11.236		
12,900.00	7,730.00	13,660.46	7,730.00	97.85	129.92	-90.00	-1,878.97	5,888.69	1,379.70	1,254.65	125.05	11.033		
13,000.00	7,730.00	13,760.46	7,730.00	98.09	130.02	-90.00	-1,978.97	5,888.35	1,379.70	1,252.33	127.36	10.833		
13,100.00	7,730.00	13,860.46	7,730.00	98.35	130.14	-90.00	-2,078.97	5,888.01	1,379.70	1,249.97	129.73	10.635		
13,200.00	7,730.00	13,960.46	7,730.00	98.65	130.28	-90.00	-2,178.97	5,887.68	1,379.70	1,247.55	132.15	10.440		
13,300.00	7,730.00	14,060.46	7,730.00	98.98	130.43	-90.00	-2,278.97	5,887.34	1,379.70	1,245.08	134.62	10.249		
13,400.00	7,730.00	14,160.46	7,730.00	99.34	130.60	-90.00	-2,378.97	5,887.00	1,379.70	1,242.56	137.14	10.061		
13,500.00	7,730.00	14,260.46	7,730.00	99.74	130.78	-90.00	-2,478.97	5,886.66	1,379.70	1,240.00	139.70	9.876		
13,600.00	7,730.00	14,360.46	7,730.00	100.17	130.99	-90.00	-2,578.97	5,886.32	1,379.70	1,237.40	142.30	9.696		
13,700.00	7,730.00	14,460.46	7,730.00	100.65	131.21	-90.00	-2,678.97	5,885.99	1,379.70	1,234.76	144.94	9.519		
13,800.00	7,730.00	14,560.46	7,730.00	101.16	131.45	-90.00	-2,778.97	5,885.65	1,379.70	1,232.08	147.62	9.346		
13,900.00	7,730.00	14,660.46	7,730.00	101.71	131.71	-90.00	-2,878.97	5,885.31	1,379.70	1,229.37	150.33	9.178		
14,000.00	7,730.00	14,760.46	7,730.00	102.30	131.99	-90.00	-2,978.96	5,884.97	1,379.70	1,226.62	153.08	9.013		
14,100.00	7,730.00	14,860.46	7,730.00	102.93	132.29	-90.00	-3,078.96	5,884.63	1,379.70	1,223.85	155.86	8.852		
14,200.00	7,730.00	14,960.46	7,730.00	103.60	132.62	-90.00	-3,178.96	5,884.30	1,379.71	1,221.04	158.67	8.695		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	15,060.46	7,730.00	104.32	132.96	-90.00	-3,278.96	5,883.96	1,379.71	1,218.20	161.51	8.543		
14,400.00	7,730.00	15,160.46	7,730.00	105.07	133.33	-90.00	-3,378.96	5,883.62	1,379.71	1,215.34	164.37	8.394		
14,500.00	7,730.00	15,260.46	7,730.00	105.86	133.72	-90.00	-3,478.96	5,883.28	1,379.71	1,212.45	167.26	8.249		
14,600.00	7,730.00	15,360.46	7,730.00	106.70	134.14	-90.00	-3,578.96	5,882.94	1,379.71	1,209.53	170.18	8.108		
14,700.00	7,730.00	15,460.46	7,730.00	107.57	134.58	-90.00	-3,678.96	5,882.61	1,379.71	1,206.60	173.11	7.970		
14,800.00	7,730.00	15,560.46	7,730.00	108.48	135.04	-90.00	-3,778.96	5,882.27	1,379.71	1,203.64	176.07	7.836		
14,900.00	7,730.00	15,660.46	7,730.00	109.43	135.53	-90.00	-3,878.96	5,881.93	1,379.71	1,200.66	179.05	7.706		
15,000.00	7,730.00	15,760.46	7,730.00	110.42	136.05	-90.00	-3,978.96	5,881.59	1,379.71	1,197.66	182.05	7.579		
15,100.00	7,730.00	15,860.46	7,730.00	111.43	136.59	-90.00	-4,078.96	5,881.25	1,379.71	1,194.64	185.07	7.455		
15,200.00	7,730.00	15,960.46	7,730.00	112.49	137.16	-90.00	-4,178.96	5,880.92	1,379.71	1,191.60	188.11	7.335		
15,300.00	7,730.00	16,060.46	7,730.00	113.57	137.75	-90.00	-4,278.96	5,880.58	1,379.71	1,188.55	191.16	7.217		
15,400.00	7,730.00	16,160.46	7,730.00	114.68	138.38	-90.00	-4,378.96	5,880.24	1,379.72	1,185.48	194.23	7.103		
15,500.00	7,730.00	16,260.46	7,730.00	115.82	139.03	-90.00	-4,478.96	5,879.90	1,379.72	1,182.40	197.32	6.992		
15,600.00	7,730.00	16,360.46	7,730.00	116.99	139.71	-90.00	-4,578.96	5,879.56	1,379.72	1,179.30	200.42	6.884		
15,700.00	7,730.00	16,460.46	7,730.00	118.19	140.42	-90.00	-4,678.96	5,879.23	1,379.72	1,176.18	203.54	6.779		
15,800.00	7,730.00	16,560.46	7,730.00	119.41	141.15	-90.00	-4,778.95	5,878.89	1,379.72	1,173.06	206.66	6.676		
15,900.00	7,730.00	16,660.46	7,730.00	120.65	141.91	-90.00	-4,878.95	5,878.55	1,379.72	1,169.91	209.80	6.576		
16,000.00	7,730.00	16,760.46	7,730.00	121.91	142.71	-90.00	-4,978.95	5,878.21	1,379.72	1,166.76	212.96	6.479		
16,100.00	7,730.00	16,860.46	7,730.00	123.20	143.52	-90.00	-5,078.95	5,877.87	1,379.72	1,163.60	216.12	6.384		
16,200.00	7,730.00	16,960.46	7,730.00	124.50	144.37	-90.00	-5,178.95	5,877.54	1,379.72	1,160.42	219.30	6.291		
16,300.00	7,730.00	17,060.46	7,730.00	125.82	145.24	-90.00	-5,278.95	5,877.20	1,379.72	1,157.24	222.49	6.201		
16,400.00	7,730.00	17,160.46	7,730.00	127.16	146.14	-90.00	-5,378.95	5,876.86	1,379.72	1,154.04	225.68	6.113		
16,500.00	7,730.00	17,260.46	7,730.00	128.52	147.07	-90.00	-5,478.95	5,876.52	1,379.72	1,150.83	228.89	6.028		
16,600.00	7,730.00	17,360.46	7,730.00	129.89	148.02	-90.00	-5,578.95	5,876.19	1,379.72	1,147.62	232.11	5.944		
16,700.00	7,730.00	17,460.46	7,730.00	131.27	149.00	-90.00	-5,678.95	5,875.85	1,379.73	1,144.39	235.34	5.863		
16,800.00	7,730.00	17,560.46	7,730.00	132.67	150.00	-90.00	-5,778.95	5,875.51	1,379.73	1,141.16	238.57	5.783		
16,900.00	7,730.00	17,660.46	7,730.00	134.09	151.02	-90.00	-5,878.95	5,875.17	1,379.73	1,137.91	241.81	5.706		
17,000.00	7,730.00	17,760.46	7,730.00	135.51	152.07	-90.00	-5,978.95	5,874.83	1,379.73	1,134.66	245.06	5.630		
17,100.00	7,730.00	17,860.46	7,730.00	136.95	153.15	-90.00	-6,078.95	5,874.50	1,379.73	1,131.40	248.32	5.556		
17,200.00	7,730.00	17,960.46	7,730.00	138.40	154.24	-90.00	-6,178.95	5,874.16	1,379.73	1,128.14	251.59	5.484		
17,300.00	7,730.00	18,060.46	7,730.00	139.85	155.36	-90.00	-6,278.95	5,873.82	1,379.73	1,124.87	254.86	5.414		
17,400.00	7,730.00	18,160.46	7,730.00	141.32	156.49	-90.00	-6,378.95	5,873.48	1,379.73	1,121.59	258.14	5.345		
17,500.00	7,730.00	18,260.46	7,730.00	142.80	157.65	-90.00	-6,478.94	5,873.14	1,379.73	1,118.30	261.43	5.278		
17,600.00	7,730.00	18,360.46	7,730.00	144.28	158.83	-90.00	-6,578.94	5,872.81	1,379.73	1,115.01	264.73	5.212		
17,700.00	7,730.00	18,460.46	7,730.00	145.78	160.02	-90.00	-6,678.94	5,872.47	1,379.73	1,111.71	268.03	5.148		
17,800.00	7,730.00	18,560.46	7,730.00	147.28	161.23	-90.00	-6,778.94	5,872.13	1,379.73	1,108.40	271.33	5.085		
17,900.00	7,730.00	18,660.46	7,730.00	148.79	162.46	-90.00	-6,878.94	5,871.79	1,379.73	1,105.09	274.64	5.024		
18,000.00	7,730.00	18,760.46	7,730.00	150.31	163.71	-90.00	-6,978.94	5,871.45	1,379.74	1,101.78	277.96	4.964		
18,100.00	7,730.00	18,860.46	7,730.00	151.83	164.97	-90.00	-7,078.94	5,871.12	1,379.74	1,098.46	281.28	4.905		
18,200.00	7,730.00	18,960.46	7,730.00	153.37	166.25	-90.00	-7,178.94	5,870.78	1,379.74	1,095.13	284.61	4.848		
18,300.00	7,730.00	19,060.46	7,730.00	154.90	167.55	-90.00	-7,278.94	5,870.44	1,379.74	1,091.80	287.94	4.792		
18,400.00	7,730.00	19,160.46	7,730.00	156.45	168.86	-90.00	-7,378.94	5,870.10	1,379.74	1,088.46	291.28	4.737		
18,500.00	7,730.00	19,260.46	7,730.00	158.00	170.18	-90.00	-7,478.94	5,869.76	1,379.74	1,085.12	294.62	4.683		
18,600.00	7,730.00	19,360.46	7,730.00	159.55	171.51	-90.00	-7,578.94	5,869.43	1,379.74	1,081.78	297.96	4.631		
18,700.00	7,730.00	19,460.46	7,730.00	161.11	172.86	-90.00	-7,678.94	5,869.09	1,379.74	1,078.43	301.31	4.579		
18,800.00	7,730.00	19,560.46	7,730.00	162.68	174.22	-90.00	-7,778.94	5,868.75	1,379.74	1,075.07	304.67	4.529		
18,900.00	7,730.00	19,660.46	7,730.00	164.25	175.59	-90.00	-7,878.94	5,868.41	1,379.74	1,071.72	308.03	4.479		
19,000.00	7,730.00	19,760.46	7,730.00	165.83	176.97	-90.00	-7,978.94	5,868.07	1,379.74	1,068.35	311.39	4.431		
19,100.00	7,730.00	19,860.46	7,730.00	167.41	178.37	-90.00	-8,078.94	5,867.74	1,379.74	1,064.99	314.76	4.384		
19,200.00	7,730.00	19,960.46	7,730.00	168.99	179.77	-90.00	-8,178.94	5,867.40	1,379.75	1,061.62	318.13	4.337		
19,300.00	7,730.00	20,060.46	7,730.00	170.58	181.19	-90.00	-8,278.93	5,867.06	1,379.75	1,058.25	321.50	4.292		
19,400.00	7,730.00	20,160.46	7,730.00	172.17	182.61	-90.00	-8,378.93	5,866.72	1,379.75	1,054.87	324.88	4.247		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,430.54	7,730.00	20,191.00	7,730.00	172.66	183.05	-90.00	-8,409.47	5,866.62	1,379.75	1,053.84	325.91	4.234 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	2.00	2.00	0.00	0.00	-89.54	0.73	-90.16	90.16					
100.00	100.00	102.00	102.00	0.13	0.14	-89.54	0.73	-90.16	90.16	89.89	0.28	326.653		
200.00	200.00	202.00	202.00	0.49	0.50	-89.54	0.73	-90.16	90.16	89.17	0.99	90.802		
300.00	300.00	302.00	302.00	0.85	0.86	-89.54	0.73	-90.16	90.16	88.45	1.71	52.730		
400.00	400.00	402.00	402.00	1.21	1.22	-89.54	0.73	-90.16	90.16	87.74	2.43	37.153		
500.00	500.00	502.00	502.00	1.57	1.58	-89.54	0.73	-90.16	90.16	87.02	3.14	28.680	CC, ES	
600.00	599.98	601.98	601.98	1.92	1.93	-155.34	0.73	-90.16	91.75	87.89	3.86	23.792		
700.00	699.84	701.84	701.84	2.28	2.29	-156.60	0.73	-90.16	96.53	91.96	4.57	21.131		
800.00	799.45	801.45	801.45	2.64	2.65	-158.43	0.73	-90.16	104.59	99.30	5.28	19.798		
900.00	898.70	900.70	900.70	3.02	3.00	-160.57	0.73	-90.16	116.01	110.01	6.00	19.337		
1,000.00	997.47	1,000.53	999.47	3.41	3.36	-162.75	0.73	-90.16	130.88	124.16	6.72	19.473		
1,100.00	1,095.62	1,102.38	1,097.62	3.84	3.73	-164.83	0.73	-90.16	149.23	141.78	7.45	20.022		
1,200.00	1,193.06	1,204.94	1,195.06	4.29	4.10	-166.69	0.73	-90.16	171.07	162.88	8.19	20.886		
1,300.00	1,289.64	1,308.36	1,291.64	4.78	4.47	-168.32	0.73	-90.16	196.38	187.45	8.93	21.982		
1,400.00	1,385.27	1,387.27	1,387.27	5.32	4.75	-169.72	0.73	-90.16	225.13	215.54	9.59	23.471		
1,500.00	1,479.82	1,488.19	1,488.18	5.90	5.11	-170.80	1.80	-89.33	256.25	245.92	10.33	24.795		
1,600.00	1,573.17	1,590.88	1,590.74	6.53	5.48	-171.31	5.75	-86.26	288.00	276.91	11.09	25.976		
1,700.00	1,665.21	1,694.47	1,693.95	7.23	5.85	-171.41	12.68	-80.89	320.25	308.40	11.85	27.030		
1,800.00	1,755.84	1,798.94	1,797.65	7.98	6.23	-171.18	22.64	-73.16	352.98	340.36	12.62	27.970		
1,900.00	1,844.94	1,904.27	1,901.67	8.80	6.62	-170.71	35.70	-63.02	386.16	372.75	13.41	28.802		
2,000.00	1,932.39	2,010.45	2,005.84	9.68	7.03	-170.05	51.92	-50.44	419.79	405.58	14.22	29.531		
2,100.00	2,018.11	2,117.45	2,109.97	10.63	7.46	-169.24	71.34	-35.38	453.88	438.83	15.05	30.162		
2,200.00	2,101.97	2,225.24	2,213.87	11.65	7.94	-168.30	93.99	-17.80	488.42	472.50	15.92	30.681		
2,300.00	2,183.88	2,333.80	2,317.35	12.74	8.45	-167.26	119.91	2.31	523.45	506.61	16.83	31.097		
2,400.00	2,263.74	2,443.12	2,420.22	13.90	9.00	-166.13	149.12	24.97	558.96	541.16	17.80	31.401		
2,431.61	2,288.54	2,477.82	2,452.57	14.29	9.19	-165.76	159.04	32.67	570.29	552.17	18.12	31.471		
2,500.00	2,341.97	2,553.46	2,522.55	15.13	9.61	-165.04	181.73	50.27	594.24	575.40	18.84	31.548		
2,600.00	2,420.08	2,665.61	2,624.84	16.37	10.28	-163.86	218.04	78.44	627.03	607.08	19.95	31.428		
2,700.00	2,498.20	2,759.05	2,709.38	17.63	10.88	-162.88	249.48	102.84	658.72	637.64	21.08	31.249		
2,800.00	2,576.32	2,853.31	2,794.66	18.89	11.50	-161.98	281.21	127.45	690.56	668.32	22.25	31.042		
2,900.00	2,654.43	2,947.56	2,879.93	20.17	12.14	-161.16	312.93	152.07	722.55	699.11	23.45	30.817		
3,000.00	2,732.55	3,041.82	2,965.21	21.45	12.80	-160.41	344.65	176.68	754.66	729.99	24.68	30.581		
3,100.00	2,810.67	3,136.07	3,050.48	22.74	13.46	-159.72	376.38	201.29	786.88	760.95	25.94	30.340		
3,200.00	2,888.78	3,230.33	3,135.76	24.03	14.14	-159.09	408.10	225.91	819.20	791.98	27.22	30.098		
3,300.00	2,966.90	3,324.58	3,221.03	25.33	14.82	-158.50	439.82	250.52	851.59	823.07	28.52	29.858		
3,400.00	3,045.02	3,418.84	3,306.31	26.63	15.52	-157.95	471.55	275.13	884.07	854.22	29.84	29.622		
3,500.00	3,123.13	3,513.09	3,391.59	27.94	16.22	-157.45	503.27	299.75	916.61	885.42	31.19	29.392		
3,600.00	3,201.25	3,607.35	3,476.86	29.24	16.93	-156.97	534.99	324.36	949.21	916.67	32.54	29.168		
3,700.00	3,279.37	3,701.61	3,562.14	30.55	17.64	-156.53	566.72	348.97	981.86	947.95	33.91	28.952		
3,800.00	3,357.49	3,804.14	3,647.41	31.86	18.42	-156.12	598.44	373.59	1,014.57	979.22	35.35	28.701		
3,900.00	3,435.60	3,909.88	3,732.69	33.18	19.23	-155.73	630.16	398.20	1,047.31	1,010.49	36.82	28.445		
4,000.00	3,513.72	3,984.37	3,817.96	34.49	19.80	-155.37	661.89	422.81	1,080.10	1,042.00	38.10	28.350		
4,100.00	3,591.84	4,078.63	3,903.24	35.81	20.53	-155.03	693.61	447.43	1,112.92	1,073.41	39.51	28.165		
4,200.00	3,669.95	4,172.88	3,988.51	37.12	21.26	-154.70	725.33	472.04	1,145.78	1,104.84	40.94	27.988		
4,300.00	3,748.07	4,267.14	4,073.79	38.44	21.99	-154.40	757.06	496.65	1,178.67	1,136.30	42.37	27.818		
4,400.00	3,826.19	4,361.39	4,159.07	39.76	22.73	-154.11	788.78	521.27	1,211.59	1,167.78	43.81	27.656		
4,500.00	3,904.30	4,455.65	4,244.34	41.08	23.46	-153.84	820.50	545.88	1,244.53	1,199.28	45.26	27.500		
4,600.00	3,982.42	4,549.91	4,329.62	42.40	24.20	-153.58	852.23	570.49	1,277.50	1,230.79	46.71	27.351		
4,700.00	4,060.54	4,644.16	4,414.89	43.72	24.95	-153.33	883.95	595.11	1,310.49	1,262.32	48.16	27.208		
4,800.00	4,138.66	4,738.42	4,500.17	45.05	25.69	-153.10	915.67	619.72	1,343.50	1,293.87	49.63	27.072		
4,900.00	4,216.77	4,832.67	4,585.44	46.37	26.43	-152.88	947.40	644.33	1,376.53	1,325.43	51.09	26.941		
5,000.00	4,294.89	4,926.93	4,670.72	47.69	27.18	-152.66	979.12	668.95	1,409.57	1,357.01	52.57	26.815		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,021.18	4,755.99	49.02	27.93	-152.46	1,010.84	693.56	1,442.64	1,388.59	54.04	26.694		
5,200.00	4,451.12	5,115.44	4,841.27	50.34	28.68	-152.27	1,042.57	718.17	1,475.71	1,420.19	55.52	26.579		
5,300.00	4,529.24	5,209.69	4,926.54	51.67	29.43	-152.08	1,074.29	742.79	1,508.81	1,451.80	57.01	26.468		
5,400.00	4,607.36	5,303.95	5,011.82	52.99	30.18	-151.90	1,106.01	767.40	1,541.91	1,483.42	58.49	26.361		
5,500.00	4,685.47	5,401.80	5,097.10	54.32	30.96	-151.73	1,137.74	792.01	1,575.03	1,515.03	60.01	26.248		
5,600.00	4,763.59	5,507.54	5,182.37	55.64	31.80	-151.57	1,169.46	816.63	1,608.16	1,546.58	61.58	26.116		
5,700.00	4,841.71	5,586.72	5,267.65	56.97	32.43	-151.42	1,201.18	841.24	1,641.31	1,578.33	62.97	26.065		
5,800.00	4,919.83	5,680.97	5,352.92	58.30	33.19	-151.27	1,232.91	865.85	1,674.46	1,609.99	64.47	25.973		
5,900.00	4,997.94	5,775.23	5,438.20	59.62	33.94	-151.12	1,264.63	890.47	1,707.62	1,641.65	65.97	25.885		
6,000.00	5,076.06	5,869.48	5,523.47	60.95	34.70	-150.98	1,296.35	915.08	1,740.79	1,673.32	67.47	25.801		
6,100.00	5,154.18	5,963.74	5,608.75	62.28	35.45	-150.85	1,328.08	939.69	1,773.97	1,705.00	68.98	25.719		
6,200.00	5,232.29	6,057.99	5,694.02	63.61	36.21	-150.72	1,359.80	964.31	1,807.16	1,736.68	70.48	25.640		
6,300.00	5,310.41	6,152.25	5,779.30	64.93	36.97	-150.60	1,391.52	988.92	1,840.36	1,768.37	71.99	25.564		
6,400.00	5,388.53	6,246.50	5,864.58	66.26	37.73	-150.48	1,423.25	1,013.53	1,873.56	1,800.06	73.50	25.491		
6,500.00	5,466.64	6,340.76	5,949.85	67.59	38.48	-150.36	1,454.97	1,038.15	1,906.77	1,831.76	75.01	25.420		
6,600.00	5,544.76	6,435.02	6,035.13	68.92	39.24	-150.25	1,486.69	1,062.76	1,939.99	1,863.46	76.53	25.351		
6,700.00	5,622.88	6,529.27	6,120.40	70.25	40.00	-150.14	1,518.42	1,087.37	1,973.21	1,895.17	78.04	25.285		
6,800.00	5,701.00	6,623.53	6,205.68	71.58	40.76	-150.04	1,550.14	1,111.99	2,006.44	1,926.89	79.56	25.220		
6,900.00	5,779.11	6,717.78	6,290.95	72.91	41.52	-149.94	1,581.86	1,136.60	2,039.68	1,958.60	81.07	25.158		
7,000.00	5,857.23	6,812.04	6,376.23	74.23	42.28	-149.84	1,613.59	1,161.21	2,072.92	1,990.33	82.59	25.098		
7,100.00	5,935.35	6,906.29	6,461.50	75.56	43.04	-149.74	1,645.31	1,185.83	2,106.16	2,022.05	84.11	25.040		
7,200.00	6,013.46	7,000.55	6,546.78	76.89	43.80	-149.65	1,677.03	1,210.44	2,139.42	2,053.78	85.63	24.983		
7,300.00	6,091.58	7,105.20	6,632.06	78.22	44.65	-149.56	1,708.76	1,235.05	2,172.67	2,085.44	87.23	24.907		
7,400.00	6,169.70	7,189.06	6,717.33	79.55	45.33	-149.48	1,740.48	1,259.67	2,205.93	2,117.25	88.68	24.875		
7,500.00	6,247.81	7,283.32	6,802.61	80.88	46.09	-149.39	1,772.20	1,284.28	2,239.20	2,148.99	90.20	24.824		
7,600.00	6,325.93	7,377.57	6,887.88	82.21	46.85	-149.31	1,803.93	1,308.89	2,272.47	2,180.74	91.73	24.774		
7,700.00	6,404.05	7,519.07	7,019.92	83.54	47.82	-149.61	1,836.16	1,346.95	2,304.82	2,211.54	93.29	24.707		
7,800.00	6,482.17	7,652.36	7,147.73	84.87	48.38	-150.68	1,834.94	1,383.67	2,335.45	2,241.94	93.52	24.973		
7,900.00	6,560.28	7,763.71	7,251.97	86.20	48.55	-152.09	1,810.39	1,413.54	2,365.41	2,272.53	92.88	25.467		
8,000.00	6,638.40	7,851.84	7,330.05	87.53	48.54	-153.51	1,776.37	1,435.87	2,395.91	2,303.97	91.94	26.058		
8,100.00	6,716.52	7,920.31	7,386.71	88.86	48.43	-154.76	1,741.58	1,452.03	2,427.93	2,336.95	90.98	26.685		
8,200.00	6,794.63	7,973.62	7,427.83	90.20	48.31	-155.81	1,709.77	1,463.74	2,462.09	2,371.99	90.10	27.325		
8,300.00	6,872.75	8,015.63	7,458.13	91.53	48.18	-156.69	1,681.99	1,472.35	2,498.76	2,409.45	89.31	27.979		
8,400.00	6,950.87	8,050.00	7,481.41	92.86	48.07	-157.43	1,657.59	1,478.96	2,538.14	2,449.57	88.57	28.658		
8,500.00	7,028.98	8,076.59	7,498.43	94.19	47.96	-158.01	1,637.74	1,483.79	2,580.28	2,492.39	87.89	29.358		
8,600.00	7,107.10	8,100.00	7,512.67	95.52	47.87	-158.54	1,619.61	1,487.82	2,625.18	2,537.97	87.21	30.102		
8,647.91	7,144.53	8,108.63	7,517.74	96.16	47.83	-158.73	1,612.77	1,489.25	2,647.66	2,560.75	86.91	30.463		
8,650.00	7,146.16	8,109.03	7,517.97	96.18	47.83	-159.10	1,612.45	1,489.32	2,648.66	2,561.76	86.90	30.480		
8,700.00	7,185.66	8,119.23	7,523.83	96.84	47.78	-168.26	1,604.27	1,490.97	2,672.81	2,586.23	86.57	30.873		
8,750.00	7,225.78	8,130.65	7,530.22	97.47	47.73	-177.95	1,594.98	1,492.77	2,697.47	2,611.22	86.26	31.273		
8,800.00	7,266.21	8,150.00	7,540.64	98.08	47.65	171.96	1,578.94	1,495.72	2,722.44	2,636.64	85.80	31.731		
8,850.00	7,306.63	8,150.00	7,540.64	98.64	47.65	162.26	1,578.94	1,495.72	2,747.42	2,661.63	85.80	32.023		
8,900.00	7,346.75	8,170.73	7,551.21	99.17	47.55	152.50	1,561.36	1,498.69	2,772.21	2,686.85	85.37	32.474		
8,950.00	7,386.25	8,185.65	7,558.44	99.64	47.47	143.39	1,548.47	1,500.73	2,796.62	2,711.52	85.10	32.864		
9,000.00	7,424.84	8,200.00	7,565.09	100.06	47.40	135.01	1,535.89	1,502.60	2,820.41	2,735.54	84.87	33.231		
9,050.00	7,462.22	8,217.29	7,572.70	100.42	47.31	127.40	1,520.51	1,504.73	2,843.39	2,758.78	84.62	33.604		
9,100.00	7,498.11	8,233.88	7,579.57	100.74	47.23	120.61	1,505.54	1,506.66	2,865.38	2,780.97	84.41	33.947		
9,150.00	7,532.24	8,250.00	7,585.85	100.99	47.14	114.64	1,490.79	1,508.41	2,886.19	2,801.94	84.25	34.257		
9,200.00	7,564.34	8,268.30	7,592.49	101.19	47.04	109.41	1,473.84	1,510.26	2,905.66	2,821.58	84.08	34.559		
9,250.00	7,594.17	8,286.03	7,598.42	101.34	46.94	104.88	1,457.22	1,511.91	2,923.65	2,839.69	83.96	34.821		
9,300.00	7,621.50	8,300.00	7,602.75	101.45	46.86	101.02	1,443.99	1,513.11	2,940.04	2,856.05	83.98	35.008		
9,350.00	7,646.13	8,322.33	7,609.02	101.50	46.74	97.71	1,422.63	1,514.84	2,954.67	2,870.82	83.84	35.241		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,350.00	7,615.67	101.51	46.58	94.93	1,395.83	1,516.66	2,967.50	2,883.89	83.61	35.493		
9,450.00	7,686.55	8,350.00	7,615.67	101.48	46.58	92.75	1,395.83	1,516.66	2,978.36	2,894.23	84.13	35.402		
9,500.00	7,702.04	8,378.29	7,621.17	101.42	46.41	90.94	1,368.13	1,518.15	2,987.18	2,903.20	83.98	35.571		
9,550.00	7,714.20	8,400.00	7,624.51	101.33	46.28	89.60	1,346.70	1,519.03	2,993.97	2,909.93	84.04	35.626		
9,600.00	7,722.96	8,416.21	7,626.48	101.20	46.18	88.68	1,330.62	1,519.54	2,998.64	2,914.34	84.30	35.571		
9,650.00	7,728.24	8,435.26	7,628.25	101.06	46.07	88.16	1,311.66	1,519.99	3,001.16	2,916.63	84.53	35.503		
9,699.97	7,730.00	8,450.00	7,629.19	100.90	45.98	88.04	1,296.95	1,520.21	3,001.53	2,916.60	84.93	35.343		
9,800.00	7,730.00	8,511.13	7,630.00	100.56	45.62	88.05	1,235.83	1,520.23	3,001.02	2,916.12	84.90	35.349		
9,900.00	7,730.00	8,611.13	7,630.00	100.24	45.04	88.05	1,135.83	1,519.90	3,001.02	2,917.14	83.88	35.777		
10,000.00	7,730.00	8,711.13	7,630.00	99.93	44.51	88.05	1,035.83	1,519.56	3,001.02	2,918.01	83.01	36.154		
10,100.00	7,730.00	8,811.13	7,630.00	99.64	44.00	88.05	935.83	1,519.22	3,001.02	2,918.74	82.27	36.476		
10,200.00	7,730.00	8,911.13	7,630.00	99.36	43.52	88.05	835.83	1,518.88	3,001.02	2,919.33	81.69	36.736		
10,300.00	7,730.00	9,011.13	7,630.00	99.09	43.08	88.05	735.83	1,518.54	3,001.02	2,919.76	81.26	36.932		
10,400.00	7,730.00	9,111.13	7,630.00	98.84	42.66	88.05	635.83	1,518.20	3,001.02	2,920.04	80.98	37.059		
10,500.00	7,730.00	9,211.14	7,630.00	98.61	42.26	88.05	535.83	1,517.87	3,001.02	2,920.16	80.86	37.115		
10,600.00	7,730.00	9,311.14	7,630.00	98.39	41.90	88.05	435.83	1,517.53	3,001.02	2,920.13	80.89	37.100		
10,700.00	7,730.00	9,411.14	7,630.00	98.18	41.55	88.05	335.83	1,517.19	3,001.02	2,919.94	81.08	37.014		
10,800.00	7,730.00	9,511.14	7,630.00	97.99	41.23	88.05	235.83	1,516.85	3,001.02	2,919.60	81.42	36.859		
10,900.00	7,730.00	9,611.14	7,630.00	97.81	40.93	88.05	135.83	1,516.51	3,001.02	2,919.10	81.91	36.637		
11,000.00	7,730.00	9,711.14	7,630.00	97.64	40.65	88.05	35.83	1,516.17	3,001.02	2,918.46	82.56	36.351		
11,100.00	7,730.00	9,811.14	7,630.00	97.50	40.38	88.05	-64.17	1,515.83	3,001.02	2,917.67	83.35	36.007		
11,200.00	7,730.00	9,911.14	7,630.00	97.36	40.14	88.05	-164.17	1,515.50	3,001.01	2,916.74	84.27	35.610		
11,300.00	7,730.00	10,011.14	7,630.00	97.24	39.91	88.05	-264.17	1,515.16	3,001.01	2,915.67	85.34	35.165		
11,400.00	7,730.00	10,111.14	7,630.00	97.14	40.14	88.05	-364.17	1,514.82	3,001.01	2,914.48	86.54	34.678		
11,500.00	7,730.00	10,211.14	7,630.00	97.06	41.05	88.05	-464.17	1,514.48	3,001.01	2,913.15	87.86	34.156		
11,600.00	7,730.00	10,311.14	7,630.00	96.98	42.05	88.05	-564.16	1,514.14	3,001.01	2,911.71	89.30	33.604		
11,700.00	7,730.00	10,411.14	7,630.00	96.93	43.10	88.05	-664.16	1,513.80	3,001.01	2,910.15	90.86	33.029		
11,800.00	7,730.00	10,511.14	7,630.00	96.90	44.18	88.05	-764.16	1,513.47	3,001.01	2,908.49	92.53	32.434		
11,900.00	7,730.00	10,611.14	7,630.00	96.88	45.30	88.05	-864.16	1,513.13	3,001.01	2,906.72	94.29	31.826		
12,000.00	7,730.00	10,711.14	7,630.00	96.88	46.45	88.05	-964.16	1,512.79	3,001.01	2,904.85	96.16	31.209		
12,100.00	7,730.00	10,811.14	7,630.00	96.90	47.63	88.05	-1,064.16	1,512.45	3,001.01	2,902.90	98.11	30.587		
12,200.00	7,730.00	10,911.14	7,630.00	96.94	48.84	88.05	-1,164.16	1,512.11	3,001.01	2,900.86	100.15	29.964		
12,300.00	7,730.00	11,011.14	7,630.00	97.00	50.08	88.05	-1,264.16	1,511.77	3,001.01	2,898.74	102.28	29.342		
12,400.00	7,730.00	11,111.14	7,630.00	97.08	51.34	88.05	-1,364.16	1,511.43	3,001.01	2,896.54	104.47	28.725		
12,500.00	7,730.00	11,211.14	7,630.00	97.18	52.63	88.05	-1,464.16	1,511.10	3,001.01	2,894.27	106.74	28.114		
12,600.00	7,730.00	11,311.14	7,630.00	97.31	53.93	88.05	-1,564.16	1,510.76	3,001.01	2,891.93	109.08	27.512		
12,700.00	7,730.00	11,411.14	7,630.00	97.46	55.27	88.05	-1,664.16	1,510.42	3,001.01	2,889.53	111.48	26.921		
12,800.00	7,730.00	11,511.14	7,630.00	97.64	56.62	88.05	-1,764.16	1,510.08	3,001.01	2,887.08	113.93	26.340		
12,900.00	7,730.00	11,611.14	7,630.00	97.85	57.99	88.05	-1,864.16	1,509.74	3,001.01	2,884.57	116.44	25.772		
13,000.00	7,730.00	11,711.14	7,630.00	98.09	59.38	88.05	-1,964.16	1,509.40	3,001.01	2,882.00	119.01	25.217		
13,100.00	7,730.00	11,811.14	7,630.00	98.35	60.78	88.05	-2,064.16	1,509.07	3,001.01	2,879.39	121.62	24.676		
13,200.00	7,730.00	11,911.14	7,630.00	98.65	62.20	88.05	-2,164.16	1,508.73	3,001.01	2,876.73	124.27	24.148		
13,300.00	7,730.00	12,011.14	7,630.00	98.98	63.64	88.05	-2,264.15	1,508.39	3,001.01	2,874.04	126.97	23.635		
13,400.00	7,730.00	12,111.14	7,630.00	99.34	65.09	88.05	-2,364.15	1,508.05	3,001.01	2,871.30	129.71	23.136		
13,500.00	7,730.00	12,211.14	7,630.00	99.74	66.55	88.05	-2,464.15	1,507.71	3,001.01	2,868.52	132.49	22.651		
13,600.00	7,730.00	12,311.14	7,630.00	100.17	68.03	88.05	-2,564.15	1,507.37	3,001.01	2,865.71	135.30	22.181		
13,700.00	7,730.00	12,411.14	7,630.00	100.65	69.52	88.05	-2,664.15	1,507.03	3,001.01	2,862.86	138.14	21.724		
13,800.00	7,730.00	12,511.14	7,630.00	101.16	71.02	88.05	-2,764.15	1,506.70	3,001.01	2,859.99	141.02	21.281		
13,900.00	7,730.00	12,611.14	7,630.00	101.71	72.53	88.05	-2,864.15	1,506.36	3,001.01	2,857.09	143.92	20.852		
14,000.00	7,730.00	12,711.14	7,630.00	102.30	74.05	88.05	-2,964.15	1,506.02	3,001.01	2,854.15	146.85	20.435		
14,100.00	7,730.00	12,811.14	7,630.00	102.93	75.58	88.05	-3,064.15	1,505.68	3,001.01	2,851.20	149.81	20.032		
14,200.00	7,730.00	12,911.14	7,630.00	103.60	77.12	88.05	-3,164.15	1,505.34	3,001.01	2,848.21	152.79	19.641		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	13,011.14	7,630.00	104.32	78.67	88.05	-3,264.15	1,505.00	3,001.01	2,845.21	155.80	19.262		
14,400.00	7,730.00	13,111.14	7,630.00	105.07	80.22	88.05	-3,364.15	1,504.67	3,001.01	2,842.18	158.82	18.895		
14,500.00	7,730.00	13,211.14	7,630.00	105.86	81.79	88.05	-3,464.15	1,504.33	3,001.01	2,839.14	161.87	18.540		
14,600.00	7,730.00	13,311.14	7,630.00	106.70	83.36	88.05	-3,564.15	1,503.99	3,001.01	2,836.07	164.93	18.195		
14,700.00	7,730.00	13,411.14	7,630.00	107.57	84.94	88.05	-3,664.15	1,503.65	3,001.01	2,832.99	168.02	17.861		
14,800.00	7,730.00	13,511.14	7,630.00	108.48	86.52	88.05	-3,764.15	1,503.31	3,001.00	2,829.88	171.12	17.537		
14,900.00	7,730.00	13,611.14	7,630.00	109.43	88.11	88.05	-3,864.15	1,502.97	3,001.00	2,826.77	174.24	17.224		
15,000.00	7,730.00	13,711.14	7,630.00	110.42	89.71	88.05	-3,964.15	1,502.63	3,001.00	2,823.63	177.37	16.919		
15,100.00	7,730.00	13,811.14	7,630.00	111.43	91.31	88.05	-4,064.14	1,502.30	3,001.00	2,820.49	180.52	16.624		
15,200.00	7,730.00	13,911.14	7,630.00	112.49	92.92	88.05	-4,164.14	1,501.96	3,001.00	2,817.32	183.68	16.338		
15,300.00	7,730.00	14,011.14	7,630.00	113.57	94.53	88.05	-4,264.14	1,501.62	3,001.00	2,814.15	186.86	16.061		
15,400.00	7,730.00	14,111.14	7,630.00	114.68	96.15	88.05	-4,364.14	1,501.28	3,001.00	2,810.96	190.04	15.791		
15,500.00	7,730.00	14,211.14	7,630.00	115.82	97.78	88.05	-4,464.14	1,500.94	3,001.00	2,807.76	193.24	15.530		
15,600.00	7,730.00	14,311.14	7,630.00	116.99	99.40	88.05	-4,564.14	1,500.60	3,001.00	2,804.55	196.45	15.276		
15,700.00	7,730.00	14,411.14	7,630.00	118.19	101.04	88.05	-4,664.14	1,500.27	3,001.00	2,801.33	199.68	15.029		
15,800.00	7,730.00	14,511.14	7,630.00	119.41	102.67	88.05	-4,764.14	1,499.93	3,001.00	2,798.09	202.91	14.790		
15,900.00	7,730.00	14,611.14	7,630.00	120.65	104.31	88.05	-4,864.14	1,499.59	3,001.00	2,794.85	206.15	14.557		
16,000.00	7,730.00	14,711.14	7,630.00	121.91	105.96	88.05	-4,964.14	1,499.25	3,001.00	2,791.60	209.40	14.331		
16,100.00	7,730.00	14,811.14	7,630.00	123.20	107.60	88.05	-5,064.14	1,498.91	3,001.00	2,788.34	212.66	14.112		
16,200.00	7,730.00	14,911.14	7,630.00	124.50	109.25	88.05	-5,164.14	1,498.57	3,001.00	2,785.07	215.93	13.898		
16,300.00	7,730.00	15,011.14	7,630.00	125.82	110.91	88.05	-5,264.14	1,498.23	3,001.00	2,781.79	219.21	13.690		
16,400.00	7,730.00	15,111.14	7,630.00	127.16	112.57	88.05	-5,364.14	1,497.90	3,001.00	2,778.51	222.49	13.488		
16,500.00	7,730.00	15,211.14	7,630.00	128.52	114.23	88.05	-5,464.14	1,497.56	3,001.00	2,775.21	225.79	13.291		
16,600.00	7,730.00	15,311.14	7,630.00	129.89	115.89	88.05	-5,564.14	1,497.22	3,001.00	2,771.91	229.09	13.100		
16,700.00	7,730.00	15,411.14	7,630.00	131.27	117.56	88.05	-5,664.14	1,496.88	3,001.00	2,768.61	232.39	12.914		
16,800.00	7,730.00	15,511.14	7,630.00	132.67	119.23	88.05	-5,764.13	1,496.54	3,001.00	2,765.30	235.70	12.732		
16,900.00	7,730.00	15,611.14	7,630.00	134.09	120.90	88.05	-5,864.13	1,496.20	3,001.00	2,761.98	239.02	12.555		
17,000.00	7,730.00	15,711.14	7,630.00	135.51	122.57	88.05	-5,964.13	1,495.87	3,001.00	2,758.65	242.35	12.383		
17,100.00	7,730.00	15,811.14	7,630.00	136.95	124.25	88.05	-6,064.13	1,495.53	3,001.00	2,755.32	245.68	12.215		
17,200.00	7,730.00	15,911.14	7,630.00	138.40	125.93	88.05	-6,164.13	1,495.19	3,001.00	2,751.98	249.02	12.051		
17,300.00	7,730.00	16,011.14	7,630.00	139.85	127.61	88.05	-6,264.13	1,494.85	3,001.00	2,748.64	252.36	11.892		
17,400.00	7,730.00	16,111.14	7,630.00	141.32	129.29	88.05	-6,364.13	1,494.51	3,001.00	2,745.29	255.71	11.736		
17,500.00	7,730.00	16,211.14	7,630.00	142.80	130.98	88.05	-6,464.13	1,494.17	3,001.00	2,741.94	259.06	11.584		
17,600.00	7,730.00	16,311.14	7,630.00	144.28	132.66	88.05	-6,564.13	1,493.83	3,001.00	2,738.58	262.41	11.436		
17,700.00	7,730.00	16,411.14	7,630.00	145.78	134.35	88.05	-6,664.13	1,493.50	3,001.00	2,735.22	265.78	11.291		
17,800.00	7,730.00	16,511.14	7,630.00	147.28	136.05	88.05	-6,764.13	1,493.16	3,001.00	2,731.86	269.14	11.150		
17,900.00	7,730.00	16,611.14	7,630.00	148.79	137.74	88.05	-6,864.13	1,492.82	3,001.00	2,728.49	272.51	11.012		
18,000.00	7,730.00	16,711.14	7,630.00	150.31	139.43	88.05	-6,964.13	1,492.48	3,001.00	2,725.11	275.89	10.878		
18,100.00	7,730.00	16,811.14	7,630.00	151.83	141.13	88.05	-7,064.13	1,492.14	3,001.00	2,721.73	279.26	10.746		
18,200.00	7,730.00	16,911.14	7,630.00	153.37	142.83	88.05	-7,164.13	1,491.80	3,001.00	2,718.35	282.64	10.618		
18,300.00	7,730.00	17,011.14	7,630.00	154.90	144.53	88.05	-7,264.13	1,491.47	3,001.00	2,714.97	286.03	10.492		
18,400.00	7,730.00	17,111.14	7,630.00	156.45	146.23	88.05	-7,364.13	1,491.13	3,001.00	2,711.58	289.42	10.369		
18,500.00	7,730.00	17,211.14	7,630.00	158.00	147.93	88.05	-7,464.13	1,490.79	3,000.99	2,708.18	292.81	10.249		
18,600.00	7,730.00	17,311.14	7,630.00	159.55	149.63	88.05	-7,564.12	1,490.45	3,000.99	2,704.79	296.21	10.131		
18,700.00	7,730.00	17,411.14	7,630.00	161.11	151.34	88.05	-7,664.12	1,490.11	3,000.99	2,701.39	299.61	10.016		
18,800.00	7,730.00	17,511.14	7,630.00	162.68	153.05	88.05	-7,764.12	1,489.77	3,000.99	2,697.99	303.01	9.904		
18,900.00	7,730.00	17,611.14	7,630.00	164.25	154.75	88.05	-7,864.12	1,489.43	3,000.99	2,694.58	306.41	9.794		
19,000.00	7,730.00	17,711.14	7,630.00	165.83	156.46	88.05	-7,964.12	1,489.10	3,000.99	2,691.17	309.82	9.686		
19,100.00	7,730.00	17,811.14	7,630.00	167.41	158.17	88.05	-8,064.12	1,488.76	3,000.99	2,687.76	313.23	9.581		
19,200.00	7,730.00	17,911.14	7,630.00	168.99	159.89	88.05	-8,164.12	1,488.42	3,000.99	2,684.35	316.64	9.478		
19,300.00	7,730.00	18,011.14	7,630.00	170.58	161.60	88.05	-8,264.12	1,488.08	3,000.99	2,680.93	320.06	9.376		
19,400.00	7,730.00	18,111.14	7,630.00	172.17	163.31	88.05	-8,364.12	1,487.74	3,000.99	2,677.52	323.48	9.277		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,430.54	7,730.00	18,141.67	7,630.00	172.66	163.84	88.05	-8,394.66	1,487.64	3,000.99	2,676.47	324.52	9.247 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,236.00	7,569.74	0.00	158.98	48.42	1,788.18	2,015.39	8,177.36					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	48.42	1,788.18	2,015.39	8,083.01	8,003.75	79.26	101.975		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	48.42	1,788.18	2,015.39	7,988.80	7,909.37	79.43	100.579		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	48.42	1,788.18	2,015.39	7,894.73	7,815.12	79.61	99.170		
400.00	400.00	16,236.00	7,569.74	1.21	158.98	48.42	1,788.18	2,015.39	7,800.81	7,721.00	79.80	97.748		
500.00	500.00	16,236.00	7,569.74	1.57	158.98	48.42	1,788.18	2,015.39	7,707.04	7,627.02	80.02	96.315		
600.00	599.98	16,236.00	7,569.74	1.92	158.98	-18.64	1,788.18	2,015.39	7,612.86	7,532.61	80.25	94.865		
700.00	699.84	16,236.00	7,569.74	2.28	158.98	-20.72	1,788.18	2,015.39	7,517.75	7,437.27	80.48	93.412		
800.00	799.45	16,236.00	7,569.74	2.64	158.98	-23.27	1,788.18	2,015.39	7,421.79	7,341.10	80.69	91.977		
900.00	898.70	16,236.00	7,569.74	3.02	158.98	-26.48	1,788.18	2,015.39	7,325.07	7,244.19	80.88	90.562		
1,000.00	997.47	16,236.00	7,569.74	3.41	158.98	-30.58	1,788.18	2,015.39	7,227.68	7,146.62	81.06	89.169		
1,100.00	1,095.62	16,236.00	7,569.74	3.84	158.98	-35.94	1,788.18	2,015.39	7,129.71	7,048.51	81.20	87.802		
1,200.00	1,193.06	16,236.00	7,569.74	4.29	158.98	-43.08	1,788.18	2,015.39	7,031.26	6,949.94	81.32	86.460		
1,300.00	1,289.64	16,236.00	7,569.74	4.78	158.98	-52.67	1,788.18	2,015.39	6,932.43	6,851.02	81.42	85.147		
1,400.00	1,385.27	16,236.00	7,569.74	5.32	158.98	-65.34	1,788.18	2,015.39	6,833.33	6,751.85	81.48	83.864		
1,500.00	1,479.82	16,236.00	7,569.74	5.90	158.98	-80.93	1,788.18	2,015.39	6,734.07	6,652.56	81.52	82.611		
1,600.00	1,573.17	16,236.00	7,569.74	6.53	158.98	-97.73	1,788.18	2,015.39	6,634.77	6,553.25	81.52	81.390		
1,700.00	1,665.21	16,236.00	7,569.74	7.23	158.98	-113.09	1,788.18	2,015.39	6,535.55	6,454.05	81.49	80.200		
1,800.00	1,755.84	16,236.00	7,569.74	7.98	158.98	-125.45	1,788.18	2,015.39	6,436.53	6,355.09	81.43	79.042		
1,900.00	1,844.94	16,236.00	7,569.74	8.80	158.98	-134.78	1,788.18	2,015.39	6,337.84	6,256.50	81.34	77.915		
2,000.00	1,932.39	16,236.00	7,569.74	9.68	158.98	-141.72	1,788.18	2,015.39	6,239.64	6,158.41	81.22	76.820		
2,100.00	2,018.11	16,236.00	7,569.74	10.63	158.98	-146.93	1,788.18	2,015.39	6,142.06	6,060.98	81.08	75.753		
2,200.00	2,101.97	16,236.00	7,569.74	11.65	158.98	-150.92	1,788.18	2,015.39	6,045.25	5,964.34	80.91	74.714		
2,300.00	2,183.88	16,236.00	7,569.74	12.74	158.98	-154.04	1,788.18	2,015.39	5,949.38	5,868.65	80.72	73.700		
2,400.00	2,263.74	16,236.00	7,569.74	13.90	158.98	-156.53	1,788.18	2,015.39	5,854.60	5,774.08	80.52	72.707		
2,431.61	2,288.54	16,236.00	7,569.74	14.29	158.98	-157.21	1,788.18	2,015.39	5,824.91	5,744.45	80.45	72.402		
2,500.00	2,341.97	16,236.00	7,569.74	15.13	158.98	-157.21	1,788.18	2,015.39	5,760.83	5,680.51	80.32	71.723		
2,600.00	2,420.08	16,236.00	7,569.74	16.37	158.98	-157.21	1,788.18	2,015.39	5,667.33	5,587.18	80.14	70.714		
2,700.00	2,498.20	16,236.00	7,569.74	17.63	158.98	-157.21	1,788.18	2,015.39	5,574.05	5,494.06	79.98	69.689		
2,800.00	2,576.32	16,236.00	7,569.74	18.89	158.98	-157.21	1,788.18	2,015.39	5,481.01	5,401.16	79.84	68.648		
2,900.00	2,654.43	16,236.00	7,569.74	20.17	158.98	-157.21	1,788.18	2,015.39	5,388.21	5,308.50	79.72	67.593		
3,000.00	2,732.55	16,236.00	7,569.74	21.45	158.98	-157.21	1,788.18	2,015.39	5,295.68	5,216.08	79.61	66.524		
3,100.00	2,810.67	16,236.00	7,569.74	22.74	158.98	-157.21	1,788.18	2,015.39	5,203.43	5,123.92	79.51	65.440		
3,200.00	2,888.78	16,236.00	7,569.74	24.03	158.98	-157.21	1,788.18	2,015.39	5,111.47	5,032.03	79.44	64.344		
3,300.00	2,966.90	16,236.00	7,569.74	25.33	158.98	-157.21	1,788.18	2,015.39	5,019.81	4,940.43	79.38	63.235		
3,400.00	3,045.02	16,236.00	7,569.74	26.63	158.98	-157.21	1,788.18	2,015.39	4,928.48	4,849.14	79.35	62.113		
3,500.00	3,123.13	16,236.00	7,569.74	27.94	158.98	-157.21	1,788.18	2,015.39	4,837.50	4,758.17	79.33	60.978		
3,600.00	3,201.25	16,236.00	7,569.74	29.24	158.98	-157.21	1,788.18	2,015.39	4,746.87	4,667.53	79.34	59.830		
3,700.00	3,279.37	16,236.00	7,569.74	30.55	158.98	-157.21	1,788.18	2,015.39	4,656.63	4,577.26	79.37	58.669		
3,800.00	3,357.49	16,236.00	7,569.74	31.86	158.98	-157.21	1,788.18	2,015.39	4,566.80	4,487.37	79.43	57.494		
3,900.00	3,435.60	16,236.00	7,569.74	33.18	158.98	-157.21	1,788.18	2,015.39	4,477.40	4,397.88	79.52	56.305		
4,000.00	3,513.72	16,236.00	7,569.74	34.49	158.98	-157.21	1,788.18	2,015.39	4,388.45	4,308.81	79.64	55.102		
4,100.00	3,591.84	16,236.00	7,569.74	35.81	158.98	-157.21	1,788.18	2,015.39	4,299.99	4,220.19	79.80	53.883		
4,200.00	3,669.95	16,236.00	7,569.74	37.12	158.98	-157.21	1,788.18	2,015.39	4,212.05	4,132.04	80.00	52.649		
4,300.00	3,748.07	16,236.00	7,569.74	38.44	158.98	-157.21	1,788.18	2,015.39	4,124.65	4,044.40	80.25	51.397		
4,400.00	3,826.19	16,236.00	7,569.74	39.76	158.98	-157.21	1,788.18	2,015.39	4,037.84	3,957.29	80.55	50.129		
4,500.00	3,904.30	16,236.00	7,569.74	41.08	158.98	-157.21	1,788.18	2,015.39	3,951.66	3,870.75	80.91	48.842		
4,600.00	3,982.42	16,236.00	7,569.74	42.40	158.98	-157.21	1,788.18	2,015.39	3,866.14	3,784.81	81.33	47.537		
4,700.00	4,060.54	16,236.00	7,569.74	43.72	158.98	-157.21	1,788.18	2,015.39	3,781.33	3,699.50	81.82	46.213		
4,800.00	4,138.66	16,236.00	7,569.74	45.05	158.98	-157.21	1,788.18	2,015.39	3,697.28	3,614.88	82.40	44.870		
4,900.00	4,216.77	16,236.00	7,569.74	46.37	158.98	-157.21	1,788.18	2,015.39	3,614.04	3,530.97	83.07	43.507		
5,000.00	4,294.89	16,236.00	7,569.74	47.69	158.98	-157.21	1,788.18	2,015.39	3,531.67	3,447.83	83.84	42.125		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	16,236.00	7,569.74	49.02	158.98	-157.21	1,788.18	2,015.39	3,450.24	3,365.52	84.72	40.725		
5,200.00	4,451.12	16,236.00	7,569.74	50.34	158.98	-157.21	1,788.18	2,015.39	3,369.80	3,284.07	85.73	39.308		
5,300.00	4,529.24	16,236.00	7,569.74	51.67	158.98	-157.21	1,788.18	2,015.39	3,290.44	3,203.56	86.88	37.875		
5,400.00	4,607.36	16,236.00	7,569.74	52.99	158.98	-157.21	1,788.18	2,015.39	3,212.23	3,124.05	88.18	36.429		
5,500.00	4,685.47	16,236.00	7,569.74	54.32	158.98	-157.21	1,788.18	2,015.39	3,135.25	3,045.61	89.64	34.974		
5,600.00	4,763.59	16,236.00	7,569.74	55.64	158.98	-157.21	1,788.18	2,015.39	3,059.62	2,968.32	91.30	33.513		
5,700.00	4,841.71	16,236.00	7,569.74	56.97	158.98	-157.21	1,788.18	2,015.39	2,985.41	2,892.27	93.14	32.052		
5,800.00	4,919.83	16,236.00	7,569.74	58.30	158.98	-157.21	1,788.18	2,015.39	2,912.75	2,817.54	95.21	30.594		
5,900.00	4,997.94	16,236.00	7,569.74	59.62	158.98	-157.21	1,788.18	2,015.39	2,841.74	2,744.25	97.49	29.148		
6,000.00	5,076.06	16,236.00	7,569.74	60.95	158.98	-157.21	1,788.18	2,015.39	2,772.53	2,672.51	100.03	27.718		
6,100.00	5,154.18	16,236.00	7,569.74	62.28	158.98	-157.21	1,788.18	2,015.39	2,705.25	2,602.44	102.81	26.314		
6,200.00	5,232.29	16,236.00	7,569.74	63.61	158.98	-157.21	1,788.18	2,015.39	2,640.03	2,534.18	105.85	24.941		
6,300.00	5,310.41	16,236.00	7,569.74	64.93	158.98	-157.21	1,788.18	2,015.39	2,577.05	2,467.89	109.17	23.607		
6,400.00	5,388.53	16,236.00	7,569.74	66.26	158.98	-157.21	1,788.18	2,015.39	2,516.47	2,403.72	112.75	22.319		
6,500.00	5,466.64	16,236.00	7,569.74	67.59	158.98	-157.21	1,788.18	2,015.39	2,458.46	2,341.86	116.60	21.084		
6,600.00	5,544.76	16,236.00	7,569.74	68.92	158.98	-157.21	1,788.18	2,015.39	2,403.22	2,282.50	120.72	19.908		
6,700.00	5,622.88	16,236.00	7,569.74	70.25	158.98	-157.21	1,788.18	2,015.39	2,350.93	2,225.85	125.09	18.794		
6,800.00	5,701.00	16,236.00	7,569.74	71.58	158.98	-157.21	1,788.18	2,015.39	2,301.81	2,172.12	129.69	17.749		
6,900.00	5,779.11	16,236.00	7,569.74	72.91	158.98	-157.21	1,788.18	2,015.39	2,256.04	2,121.55	134.49	16.774		
7,000.00	5,857.23	16,236.00	7,569.74	74.23	158.98	-157.21	1,788.18	2,015.39	2,213.86	2,074.38	139.48	15.872		
7,100.00	5,935.35	16,236.00	7,569.74	75.56	158.98	-157.21	1,788.18	2,015.39	2,175.45	2,030.85	144.60	15.044		
7,200.00	6,013.46	16,236.00	7,569.74	76.89	158.98	-157.21	1,788.18	2,015.39	2,141.03	1,991.21	149.82	14.291		
7,300.00	6,091.58	16,236.00	7,569.74	78.22	158.98	-157.21	1,788.18	2,015.39	2,110.79	1,955.70	155.08	13.611		
7,400.00	6,169.70	16,236.00	7,569.74	79.55	158.98	-157.21	1,788.18	2,015.39	2,084.91	1,924.57	160.34	13.003		
7,500.00	6,247.81	16,236.00	7,569.74	80.88	158.98	-157.21	1,788.18	2,015.39	2,063.56	1,898.04	165.52	12.467		
7,600.00	6,325.93	16,236.00	7,569.74	82.21	158.98	-157.21	1,788.18	2,015.39	2,046.87	1,876.29	170.58	11.999		
7,700.00	6,404.05	16,236.00	7,569.74	83.54	158.98	-157.21	1,788.18	2,015.39	2,034.97	1,859.52	175.45	11.598		
7,800.00	6,482.17	16,236.00	7,569.74	84.87	158.98	-157.21	1,788.18	2,015.39	2,027.94	1,847.85	180.09	11.261		
7,892.89	6,554.73	16,236.00	7,569.74	86.11	158.98	-157.21	1,788.18	2,015.39	2,025.81	1,841.67	184.14	11.001 CC		
7,900.00	6,560.28	16,236.00	7,569.74	86.20	158.98	-157.21	1,788.18	2,015.39	2,025.82	1,841.38	184.44	10.984		
8,000.00	6,638.40	16,236.00	7,569.74	87.53	158.98	-157.21	1,788.18	2,015.39	2,028.64	1,840.18	188.46	10.764 ES		
8,100.00	6,716.52	16,236.00	7,569.74	88.86	158.98	-157.21	1,788.18	2,015.39	2,036.37	1,844.26	192.11	10.600		
8,200.00	6,794.63	16,232.94	7,569.76	90.20	158.93	-157.13	1,791.24	2,015.45	2,048.95	1,853.56	195.40	10.486		
8,300.00	6,872.75	16,205.49	7,569.90	91.53	158.45	-156.38	1,818.69	2,015.94	2,066.09	1,867.61	198.48	10.410		
8,400.00	6,950.87	16,177.76	7,570.04	92.86	157.97	-155.63	1,846.41	2,016.44	2,087.51	1,886.31	201.20	10.375 SF		
8,500.00	7,028.98	16,148.07	7,570.15	94.19	157.45	-154.83	1,876.09	2,016.97	2,113.08	1,909.52	203.56	10.380		
8,600.00	7,107.10	16,118.77	7,570.19	95.52	156.94	-154.03	1,905.39	2,017.51	2,142.64	1,937.07	205.57	10.423		
8,647.91	7,144.53	16,104.88	7,570.18	96.16	156.70	-153.66	1,919.28	2,017.76	2,158.17	1,951.76	206.41	10.456		
8,650.00	7,146.16	16,104.27	7,570.18	96.18	156.69	-153.96	1,919.88	2,017.77	2,158.87	1,952.43	206.44	10.457		
8,700.00	7,185.66	16,092.51	7,570.16	96.84	156.49	-161.66	1,931.64	2,017.99	2,176.28	1,969.03	207.24	10.501		
8,750.00	7,225.78	16,085.42	7,570.14	97.47	156.36	-170.09	1,938.73	2,018.12	2,194.99	1,987.01	207.98	10.554		
8,800.00	7,266.21	16,082.85	7,570.13	98.08	156.32	-179.04	1,941.30	2,018.17	2,214.87	2,006.22	208.64	10.616		
8,850.00	7,306.63	16,084.77	7,570.14	98.64	156.35	-171.76	1,939.38	2,018.14	2,235.75	2,026.52	209.23	10.685		
8,900.00	7,346.75	16,091.10	7,570.15	99.17	156.46	-162.56	1,933.05	2,018.02	2,257.44	2,047.69	209.75	10.762		
8,950.00	7,386.25	16,101.85	7,570.18	99.64	156.65	-153.62	1,922.31	2,017.82	2,279.73	2,069.53	210.20	10.846		
9,000.00	7,424.84	16,117.20	7,570.19	100.06	156.92	-145.09	1,906.96	2,017.54	2,302.35	2,091.78	210.58	10.934		
9,050.00	7,462.22	16,136.74	7,570.18	100.42	157.25	-137.12	1,887.42	2,017.18	2,325.06	2,114.16	210.90	11.025		
9,100.00	7,498.11	16,160.30	7,570.12	100.74	157.66	-129.76	1,863.87	2,016.75	2,347.58	2,136.40	211.18	11.117		
9,150.00	7,532.24	16,187.66	7,569.99	100.99	158.14	-123.06	1,836.51	2,016.26	2,369.63	2,158.21	211.42	11.208		
9,200.00	7,564.34	16,217.34	7,569.84	101.19	158.65	-117.04	1,806.84	2,015.73	2,390.95	2,179.30	211.65	11.297		
9,250.00	7,594.17	16,236.00	7,569.74	101.34	158.98	-111.92	1,788.18	2,015.39	2,411.31	2,199.32	211.98	11.375		
9,300.00	7,621.50	16,236.00	7,569.74	101.45	158.98	-107.70	1,788.18	2,015.39	2,430.85	2,218.39	212.46	11.442		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	16,236.00	7,569.74	101.50	158.98	103.99	1,788.18	2,015.39	2,449.52	2,236.61	212.92	11.505		
9,400.00	7,667.87	16,236.00	7,569.74	101.51	158.98	100.75	1,788.18	2,015.39	2,467.20	2,253.84	213.37	11.563		
9,450.00	7,686.55	16,236.00	7,569.74	101.48	158.98	97.95	1,788.18	2,015.39	2,483.78	2,269.98	213.80	11.617		
9,500.00	7,702.04	16,236.00	7,569.74	101.42	158.98	95.57	1,788.18	2,015.39	2,499.15	2,284.92	214.23	11.666		
9,550.00	7,714.20	16,236.00	7,569.74	101.33	158.98	93.57	1,788.18	2,015.39	2,513.21	2,298.57	214.64	11.709		
9,600.00	7,722.96	16,236.00	7,569.74	101.20	158.98	91.95	1,788.18	2,015.39	2,525.90	2,310.85	215.05	11.746		
9,650.00	7,728.24	16,236.00	7,569.74	101.06	158.98	90.69	1,788.18	2,015.39	2,537.12	2,321.69	215.43	11.777		
9,699.97	7,730.00	16,236.00	7,569.74	100.90	158.98	89.79	1,788.18	2,015.39	2,546.81	2,331.01	215.80	11.802		
9,800.00	7,730.00	16,236.00	7,569.74	100.56	158.98	89.79	1,788.18	2,015.39	2,566.53	2,350.13	216.40	11.860		
9,900.00	7,730.00	16,236.00	7,569.74	100.24	158.98	89.79	1,788.18	2,015.39	2,589.95	2,373.19	216.76	11.948		
10,000.00	7,730.00	16,236.00	7,569.74	99.93	158.98	89.79	1,788.18	2,015.39	2,617.00	2,400.09	216.90	12.065		
10,100.00	7,730.00	16,236.00	7,569.74	99.64	158.98	89.79	1,788.18	2,015.39	2,647.54	2,430.72	216.82	12.211		
10,200.00	7,730.00	16,236.00	7,569.74	99.36	158.98	89.79	1,788.18	2,015.39	2,681.47	2,464.95	216.52	12.384		
10,300.00	7,730.00	16,236.00	7,569.74	99.09	158.98	89.79	1,788.18	2,015.39	2,718.65	2,502.62	216.03	12.584		
10,400.00	7,730.00	16,236.00	7,569.74	98.84	158.98	89.79	1,788.18	2,015.39	2,758.96	2,543.60	215.36	12.811		
10,500.00	7,730.00	16,236.00	7,569.74	98.61	158.98	89.79	1,788.18	2,015.39	2,802.26	2,587.73	214.53	13.062		
10,600.00	7,730.00	16,236.00	7,569.74	98.39	158.98	89.79	1,788.18	2,015.39	2,848.42	2,634.87	213.55	13.338		
10,700.00	7,730.00	16,236.00	7,569.74	98.18	158.98	89.79	1,788.18	2,015.39	2,897.29	2,684.85	212.44	13.638		
10,800.00	7,730.00	16,236.00	7,569.74	97.99	158.98	89.79	1,788.18	2,015.39	2,948.74	2,737.53	211.22	13.961		
10,900.00	7,730.00	16,236.00	7,569.74	97.81	158.98	89.79	1,788.18	2,015.39	3,002.65	2,792.75	209.90	14.305		
11,000.00	7,730.00	16,236.00	7,569.74	97.64	158.98	89.79	1,788.18	2,015.39	3,058.87	2,850.38	208.49	14.671		
11,100.00	7,730.00	16,236.00	7,569.74	97.50	158.98	89.79	1,788.18	2,015.39	3,117.29	2,910.27	207.02	15.058		
11,200.00	7,730.00	16,236.00	7,569.74	97.36	158.98	89.79	1,788.18	2,015.39	3,177.78	2,972.29	205.49	15.464		
11,300.00	7,730.00	16,236.00	7,569.74	97.24	158.98	89.79	1,788.18	2,015.39	3,240.23	3,036.31	203.92	15.889		
11,400.00	7,730.00	16,236.00	7,569.74	97.14	158.98	89.79	1,788.18	2,015.39	3,304.53	3,102.21	202.32	16.333		
11,500.00	7,730.00	16,236.00	7,569.74	97.06	158.98	89.79	1,788.18	2,015.39	3,370.57	3,169.88	200.69	16.795		
11,600.00	7,730.00	16,236.00	7,569.74	96.98	158.98	89.79	1,788.18	2,015.39	3,438.24	3,239.19	199.05	17.273		
11,700.00	7,730.00	16,236.00	7,569.74	96.93	158.98	89.79	1,788.18	2,015.39	3,507.47	3,310.07	197.40	17.768		
11,800.00	7,730.00	16,236.00	7,569.74	96.90	158.98	89.79	1,788.18	2,015.39	3,578.15	3,382.39	195.75	18.279		
11,900.00	7,730.00	16,236.00	7,569.74	96.88	158.98	89.79	1,788.18	2,015.39	3,650.20	3,456.09	194.11	18.805		
12,000.00	7,730.00	16,236.00	7,569.74	96.88	158.98	89.79	1,788.18	2,015.39	3,723.54	3,531.06	192.48	19.346		
12,100.00	7,730.00	16,236.00	7,569.74	96.90	158.98	89.79	1,788.18	2,015.39	3,798.10	3,607.24	190.86	19.900		
12,200.00	7,730.00	16,236.00	7,569.74	96.94	158.98	89.79	1,788.18	2,015.39	3,873.80	3,684.55	189.26	20.469		
12,300.00	7,730.00	16,236.00	7,569.74	97.00	158.98	89.79	1,788.18	2,015.39	3,950.59	3,762.91	187.68	21.050		
12,400.00	7,730.00	16,236.00	7,569.74	97.08	158.98	89.79	1,788.18	2,015.39	4,028.39	3,842.27	186.12	21.644		
12,500.00	7,730.00	16,236.00	7,569.74	97.18	158.98	89.79	1,788.18	2,015.39	4,107.16	3,922.57	184.59	22.250		
12,600.00	7,730.00	16,236.00	7,569.74	97.31	158.98	89.79	1,788.18	2,015.39	4,186.83	4,003.74	183.09	22.867		
12,700.00	7,730.00	16,236.00	7,569.74	97.46	158.98	89.79	1,788.18	2,015.39	4,267.36	4,085.74	181.62	23.496		
12,800.00	7,730.00	16,236.00	7,569.74	97.64	158.98	89.79	1,788.18	2,015.39	4,348.70	4,168.52	180.18	24.136		
12,900.00	7,730.00	16,236.00	7,569.74	97.85	158.98	89.79	1,788.18	2,015.39	4,430.80	4,252.04	178.76	24.786		
13,000.00	7,730.00	16,236.00	7,569.74	98.09	158.98	89.79	1,788.18	2,015.39	4,513.62	4,336.24	177.38	25.446		
13,100.00	7,730.00	16,236.00	7,569.74	98.35	158.98	89.79	1,788.18	2,015.39	4,597.13	4,421.10	176.03	26.116		
13,200.00	7,730.00	16,236.00	7,569.74	98.65	158.98	89.79	1,788.18	2,015.39	4,681.28	4,506.57	174.71	26.794		
13,300.00	7,730.00	16,236.00	7,569.74	98.98	158.98	89.79	1,788.18	2,015.39	4,766.05	4,592.62	173.42	27.482		
13,400.00	7,730.00	16,236.00	7,569.74	99.34	158.98	89.79	1,788.18	2,015.39	4,851.39	4,679.23	172.17	28.179		
13,500.00	7,730.00	16,236.00	7,569.74	99.74	158.98	89.79	1,788.18	2,015.39	4,937.29	4,766.35	170.94	28.883		
13,600.00	7,730.00	16,236.00	7,569.74	100.17	158.98	89.79	1,788.18	2,015.39	5,023.70	4,853.96	169.74	29.596		
13,700.00	7,730.00	16,236.00	7,569.74	100.65	158.98	89.79	1,788.18	2,015.39	5,110.62	4,942.04	168.58	30.316		
13,800.00	7,730.00	16,236.00	7,569.74	101.16	158.98	89.79	1,788.18	2,015.39	5,198.00	5,030.56	167.44	31.044		
13,900.00	7,730.00	16,236.00	7,569.74	101.71	158.98	89.79	1,788.18	2,015.39	5,285.83	5,119.50	166.33	31.779		
14,000.00	7,730.00	16,236.00	7,569.74	102.30	158.98	89.79	1,788.18	2,015.39	5,374.09	5,208.83	165.25	32.520		
14,100.00	7,730.00	16,236.00	7,569.74	102.93	158.98	89.79	1,788.18	2,015.39	5,462.75	5,298.55	164.20	33.268		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,236.00	7,569.74	103.60	158.98	89.79	1,788.18	2,015.39	5,551.80	5,388.62	163.18	34.023		
14,300.00	7,730.00	16,236.00	7,569.74	104.32	158.98	89.79	1,788.18	2,015.39	5,641.21	5,479.03	162.18	34.783		
14,400.00	7,730.00	16,236.00	7,569.74	105.07	158.98	89.79	1,788.18	2,015.39	5,730.97	5,569.76	161.21	35.550		
14,500.00	7,730.00	16,236.00	7,569.74	105.86	158.98	89.79	1,788.18	2,015.39	5,821.07	5,660.81	160.26	36.322		
14,600.00	7,730.00	16,236.00	7,569.74	106.70	158.98	89.79	1,788.18	2,015.39	5,911.48	5,752.14	159.34	37.100		
14,700.00	7,730.00	16,236.00	7,569.74	107.57	158.98	89.79	1,788.18	2,015.39	6,002.20	5,843.76	158.44	37.882		
14,800.00	7,730.00	16,236.00	7,569.74	108.48	158.98	89.79	1,788.18	2,015.39	6,093.21	5,935.64	157.57	38.670		
14,900.00	7,730.00	16,236.00	7,569.74	109.43	158.98	89.79	1,788.18	2,015.39	6,184.50	6,027.78	156.72	39.463		
15,000.00	7,730.00	16,236.00	7,569.74	110.42	158.98	89.79	1,788.18	2,015.39	6,276.05	6,120.17	155.89	40.260		
15,100.00	7,730.00	16,236.00	7,569.74	111.43	158.98	89.79	1,788.18	2,015.39	6,367.86	6,212.78	155.08	41.062		
15,200.00	7,730.00	16,236.00	7,569.74	112.49	158.98	89.79	1,788.18	2,015.39	6,459.91	6,305.62	154.29	41.868		
15,300.00	7,730.00	16,236.00	7,569.74	113.57	158.98	89.79	1,788.18	2,015.39	6,552.20	6,398.67	153.53	42.678		
15,400.00	7,730.00	16,236.00	7,569.74	114.68	158.98	89.79	1,788.18	2,015.39	6,644.70	6,491.92	152.78	43.492		
15,500.00	7,730.00	16,236.00	7,569.74	115.82	158.98	89.79	1,788.18	2,015.39	6,737.42	6,585.37	152.05	44.310		
15,600.00	7,730.00	16,236.00	7,569.74	116.99	158.98	89.79	1,788.18	2,015.39	6,830.35	6,679.01	151.34	45.132		
15,700.00	7,730.00	16,236.00	7,569.74	118.19	158.98	89.79	1,788.18	2,015.39	6,923.47	6,772.82	150.65	45.957		
15,800.00	7,730.00	16,236.00	7,569.74	119.41	158.98	89.79	1,788.18	2,015.39	7,016.79	6,866.81	149.98	46.786		
15,900.00	7,730.00	16,236.00	7,569.74	120.65	158.98	89.79	1,788.18	2,015.39	7,110.28	6,960.96	149.32	47.618		
16,000.00	7,730.00	16,236.00	7,569.74	121.91	158.98	89.79	1,788.18	2,015.39	7,203.95	7,055.27	148.68	48.453		
16,100.00	7,730.00	16,236.00	7,569.74	123.20	158.98	89.79	1,788.18	2,015.39	7,297.79	7,149.73	148.05	49.291		
16,200.00	7,730.00	16,236.00	7,569.74	124.50	158.98	89.79	1,788.18	2,015.39	7,391.79	7,244.34	147.45	50.132		
16,300.00	7,730.00	16,236.00	7,569.74	125.82	158.98	89.79	1,788.18	2,015.39	7,485.94	7,339.09	146.85	50.976		
16,400.00	7,730.00	16,236.00	7,569.74	127.16	158.98	89.79	1,788.18	2,015.39	7,580.25	7,433.97	146.27	51.823		
16,500.00	7,730.00	16,236.00	7,569.74	128.52	158.98	89.79	1,788.18	2,015.39	7,674.69	7,528.99	145.71	52.672		
16,600.00	7,730.00	16,236.00	7,569.74	129.89	158.98	89.79	1,788.18	2,015.39	7,769.28	7,624.12	145.16	53.523		
16,700.00	7,730.00	16,236.00	7,569.74	131.27	158.98	89.79	1,788.18	2,015.39	7,864.00	7,719.38	144.62	54.377		
16,800.00	7,730.00	16,236.00	7,569.74	132.67	158.98	89.79	1,788.18	2,015.39	7,958.85	7,814.76	144.10	55.233		
16,900.00	7,730.00	16,236.00	7,569.74	134.09	158.98	89.79	1,788.18	2,015.39	8,053.83	7,910.24	143.58	56.091		
17,000.00	7,730.00	16,236.00	7,569.74	135.51	158.98	89.79	1,788.18	2,015.39	8,148.92	8,005.84	143.09	56.951		
17,100.00	7,730.00	16,236.00	7,569.74	136.95	158.98	89.79	1,788.18	2,015.39	8,244.13	8,101.54	142.60	57.814		
17,200.00	7,730.00	16,236.00	7,569.74	138.40	158.98	89.79	1,788.18	2,015.39	8,339.46	8,197.33	142.12	58.678		
17,300.00	7,730.00	16,236.00	7,569.74	139.85	158.98	89.79	1,788.18	2,015.39	8,434.89	8,293.23	141.66	59.544		
17,400.00	7,730.00	16,236.00	7,569.74	141.32	158.98	89.79	1,788.18	2,015.39	8,530.43	8,389.22	141.21	60.411		
17,500.00	7,730.00	16,236.00	7,569.74	142.80	158.98	89.79	1,788.18	2,015.39	8,626.06	8,485.30	140.76	61.281		
17,600.00	7,730.00	16,236.00	7,569.74	144.28	158.98	89.79	1,788.18	2,015.39	8,721.80	8,581.47	140.33	62.152		
17,700.00	7,730.00	16,236.00	7,569.74	145.78	158.98	89.79	1,788.18	2,015.39	8,817.63	8,677.72	139.91	63.024		
17,800.00	7,730.00	16,236.00	7,569.74	147.28	158.98	89.79	1,788.18	2,015.39	8,913.55	8,774.05	139.50	63.898		
17,900.00	7,730.00	16,236.00	7,569.74	148.79	158.98	89.79	1,788.18	2,015.39	9,009.56	8,870.47	139.10	64.773		
18,000.00	7,730.00	16,236.00	7,569.74	150.31	158.98	89.79	1,788.18	2,015.39	9,105.66	8,966.95	138.70	65.649		
18,100.00	7,730.00	16,236.00	7,569.74	151.83	158.98	89.79	1,788.18	2,015.39	9,201.84	9,063.52	138.32	66.527		
18,200.00	7,730.00	16,236.00	7,569.74	153.37	158.98	89.79	1,788.18	2,015.39	9,298.10	9,160.15	137.94	67.405		
18,300.00	7,730.00	16,236.00	7,569.74	154.90	158.98	89.79	1,788.18	2,015.39	9,394.43	9,256.86	137.58	68.285		
18,400.00	7,730.00	16,236.00	7,569.74	156.45	158.98	89.79	1,788.18	2,015.39	9,490.85	9,353.63	137.22	69.166		
18,500.00	7,730.00	16,236.00	7,569.74	158.00	158.98	89.79	1,788.18	2,015.39	9,587.34	9,450.47	136.87	70.048		
18,600.00	7,730.00	16,236.00	7,569.74	159.55	158.98	89.79	1,788.18	2,015.39	9,683.89	9,547.37	136.53	70.930		
18,700.00	7,730.00	16,236.00	7,569.74	161.11	158.98	89.79	1,788.18	2,015.39	9,780.52	9,644.33	136.19	71.814		
18,800.00	7,730.00	16,236.00	7,569.74	162.68	158.98	89.79	1,788.18	2,015.39	9,877.22	9,741.35	135.87	72.698		
18,900.00	7,730.00	16,236.00	7,569.74	164.25	158.98	89.79	1,788.18	2,015.39	9,973.98	9,838.43	135.55	73.583		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,659.00	7,678.61	0.00	161.70	37.96	1,782.50	1,390.88	8,149.52					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	37.96	1,782.50	1,390.88	8,053.49	7,974.86	78.64	102.413		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	37.96	1,782.50	1,390.88	7,957.56	7,878.86	78.70	101.114		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	37.96	1,782.50	1,390.88	7,861.74	7,782.96	78.77	99.803		
400.00	400.00	16,659.00	7,678.61	1.21	161.70	37.96	1,782.50	1,390.88	7,766.01	7,687.16	78.86	98.480		
500.00	500.00	16,659.00	7,678.61	1.57	161.70	37.96	1,782.50	1,390.88	7,670.40	7,591.45	78.96	97.148		
600.00	599.98	16,659.00	7,678.61	1.92	161.70	-30.69	1,782.50	1,390.88	7,574.46	7,495.39	79.06	95.801		
700.00	699.84	16,659.00	7,678.61	2.28	161.70	-34.76	1,782.50	1,390.88	7,477.80	7,398.63	79.17	94.451		
800.00	799.45	16,659.00	7,678.61	2.64	161.70	-39.85	1,782.50	1,390.88	7,380.53	7,301.27	79.26	93.113		
900.00	898.70	16,659.00	7,678.61	3.02	161.70	-46.24	1,782.50	1,390.88	7,282.73	7,203.39	79.34	91.790		
1,000.00	997.47	16,659.00	7,678.61	3.41	161.70	-54.28	1,782.50	1,390.88	7,184.51	7,105.11	79.40	90.485		
1,100.00	1,095.62	16,659.00	7,678.61	3.84	161.70	-64.22	1,782.50	1,390.88	7,085.97	7,006.53	79.44	89.199		
1,200.00	1,193.06	16,659.00	7,678.61	4.29	161.70	-75.97	1,782.50	1,390.88	6,987.22	6,907.76	79.46	87.933		
1,300.00	1,289.64	16,659.00	7,678.61	4.78	161.70	-88.87	1,782.50	1,390.88	6,888.38	6,808.92	79.46	86.688		
1,400.00	1,385.27	16,659.00	7,678.61	5.32	161.70	-101.71	1,782.50	1,390.88	6,789.56	6,710.11	79.44	85.465		
1,500.00	1,479.82	16,659.00	7,678.61	5.90	161.70	-113.29	1,782.50	1,390.88	6,690.88	6,611.48	79.40	84.263		
1,600.00	1,573.17	16,659.00	7,678.61	6.53	161.70	-123.01	1,782.50	1,390.88	6,592.49	6,513.14	79.35	83.083		
1,700.00	1,665.21	16,659.00	7,678.61	7.23	161.70	-130.86	1,782.50	1,390.88	6,494.50	6,415.23	79.28	81.923		
1,800.00	1,755.84	16,659.00	7,678.61	7.98	161.70	-137.09	1,782.50	1,390.88	6,397.07	6,317.88	79.19	80.782		
1,900.00	1,844.94	16,659.00	7,678.61	8.80	161.70	-142.04	1,782.50	1,390.88	6,300.34	6,221.24	79.09	79.658		
2,000.00	1,932.39	16,659.00	7,678.61	9.68	161.70	-146.01	1,782.50	1,390.88	6,204.46	6,125.47	78.99	78.547		
2,100.00	2,018.11	16,659.00	7,678.61	10.63	161.70	-149.22	1,782.50	1,390.88	6,109.59	6,030.70	78.89	77.446		
2,200.00	2,101.97	16,659.00	7,678.61	11.65	161.70	-151.86	1,782.50	1,390.88	6,015.91	5,937.11	78.79	76.352		
2,300.00	2,183.88	16,659.00	7,678.61	12.74	161.70	-154.05	1,782.50	1,390.88	5,923.57	5,844.86	78.71	75.261		
2,400.00	2,263.74	16,659.00	7,678.61	13.90	161.70	-155.88	1,782.50	1,390.88	5,832.77	5,754.13	78.64	74.168		
2,431.61	2,288.54	16,659.00	7,678.61	14.29	161.70	-156.40	1,782.50	1,390.88	5,804.42	5,725.80	78.62	73.826		
2,500.00	2,341.97	16,659.00	7,678.61	15.13	161.70	-156.40	1,782.50	1,390.88	5,743.34	5,664.73	78.61	73.062		
2,600.00	2,420.08	16,659.00	7,678.61	16.37	161.70	-156.40	1,782.50	1,390.88	5,654.34	5,575.72	78.62	71.919		
2,700.00	2,498.20	16,659.00	7,678.61	17.63	161.70	-156.40	1,782.50	1,390.88	5,565.71	5,487.04	78.67	70.752		
2,800.00	2,576.32	16,659.00	7,678.61	18.89	161.70	-156.40	1,782.50	1,390.88	5,477.47	5,398.73	78.74	69.561		
2,900.00	2,654.43	16,659.00	7,678.61	20.17	161.70	-156.40	1,782.50	1,390.88	5,389.65	5,310.79	78.85	68.349		
3,000.00	2,732.55	16,659.00	7,678.61	21.45	161.70	-156.40	1,782.50	1,390.88	5,302.25	5,223.25	79.00	67.116		
3,100.00	2,810.67	16,659.00	7,678.61	22.74	161.70	-156.40	1,782.50	1,390.88	5,215.31	5,136.13	79.18	65.863		
3,200.00	2,888.78	16,659.00	7,678.61	24.03	161.70	-156.40	1,782.50	1,390.88	5,128.84	5,049.44	79.41	64.590		
3,300.00	2,966.90	16,659.00	7,678.61	25.33	161.70	-156.40	1,782.50	1,390.88	5,042.88	4,963.21	79.67	63.299		
3,400.00	3,045.02	16,659.00	7,678.61	26.63	161.70	-156.40	1,782.50	1,390.88	4,957.44	4,877.47	79.97	61.988		
3,500.00	3,123.13	16,659.00	7,678.61	27.94	161.70	-156.40	1,782.50	1,390.88	4,872.56	4,792.23	80.33	60.660		
3,600.00	3,201.25	16,659.00	7,678.61	29.24	161.70	-156.40	1,782.50	1,390.88	4,788.25	4,707.53	80.73	59.313		
3,700.00	3,279.37	16,659.00	7,678.61	30.55	161.70	-156.40	1,782.50	1,390.88	4,704.57	4,623.38	81.18	57.949		
3,800.00	3,357.49	16,659.00	7,678.61	31.86	161.70	-156.40	1,782.50	1,390.88	4,621.53	4,539.83	81.70	56.568		
3,900.00	3,435.60	16,659.00	7,678.61	33.18	161.70	-156.40	1,782.50	1,390.88	4,539.18	4,456.90	82.28	55.169		
4,000.00	3,513.72	16,659.00	7,678.61	34.49	161.70	-156.40	1,782.50	1,390.88	4,457.54	4,374.62	82.92	53.755		
4,100.00	3,591.84	16,659.00	7,678.61	35.81	161.70	-156.40	1,782.50	1,390.88	4,376.68	4,293.03	83.64	52.325		
4,200.00	3,669.95	16,659.00	7,678.61	37.12	161.70	-156.40	1,782.50	1,390.88	4,296.61	4,212.17	84.44	50.881		
4,300.00	3,748.07	16,659.00	7,678.61	38.44	161.70	-156.40	1,782.50	1,390.88	4,217.40	4,132.07	85.33	49.424		
4,400.00	3,826.19	16,659.00	7,678.61	39.76	161.70	-156.40	1,782.50	1,390.88	4,139.09	4,052.78	86.31	47.955		
4,500.00	3,904.30	16,659.00	7,678.61	41.08	161.70	-156.40	1,782.50	1,390.88	4,061.73	3,974.34	87.39	46.478		
4,600.00	3,982.42	16,659.00	7,678.61	42.40	161.70	-156.40	1,782.50	1,390.88	3,985.37	3,896.80	88.58	44.993		
4,700.00	4,060.54	16,659.00	7,678.61	43.72	161.70	-156.40	1,782.50	1,390.88	3,910.09	3,820.21	89.88	43.504		
4,800.00	4,138.66	16,659.00	7,678.61	45.05	161.70	-156.40	1,782.50	1,390.88	3,835.93	3,744.63	91.30	42.014		
4,900.00	4,216.77	16,659.00	7,678.61	46.37	161.70	-156.40	1,782.50	1,390.88	3,762.97	3,670.12	92.85	40.525		
5,000.00	4,294.89	16,659.00	7,678.61	47.69	161.70	-156.40	1,782.50	1,390.88	3,691.28	3,596.73	94.54	39.043		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	16,659.00	7,678.61	49.02	161.70	-156.40	1,782.50	1,390.88	3,620.93	3,524.55	96.38	37.570		
5,200.00	4,451.12	16,659.00	7,678.61	50.34	161.70	-156.40	1,782.50	1,390.88	3,552.00	3,453.64	98.36	36.112		
5,300.00	4,529.24	16,659.00	7,678.61	51.67	161.70	-156.40	1,782.50	1,390.88	3,484.58	3,384.08	100.50	34.672		
5,400.00	4,607.36	16,659.00	7,678.61	52.99	161.70	-156.40	1,782.50	1,390.88	3,418.75	3,315.95	102.80	33.255		
5,500.00	4,685.47	16,659.00	7,678.61	54.32	161.70	-156.40	1,782.50	1,390.88	3,354.62	3,249.34	105.27	31.866		
5,600.00	4,763.59	16,659.00	7,678.61	55.64	161.70	-156.40	1,782.50	1,390.88	3,292.27	3,184.36	107.91	30.510		
5,700.00	4,841.71	16,659.00	7,678.61	56.97	161.70	-156.40	1,782.50	1,390.88	3,231.81	3,121.10	110.72	29.190		
5,800.00	4,919.83	16,659.00	7,678.61	58.30	161.70	-156.40	1,782.50	1,390.88	3,173.36	3,059.66	113.69	27.912		
5,900.00	4,997.94	16,659.00	7,678.61	59.62	161.70	-156.40	1,782.50	1,390.88	3,117.01	3,000.17	116.84	26.678		
6,000.00	5,076.06	16,659.00	7,678.61	60.95	161.70	-156.40	1,782.50	1,390.88	3,062.90	2,942.75	120.15	25.492		
6,100.00	5,154.18	16,659.00	7,678.61	62.28	161.70	-156.40	1,782.50	1,390.88	3,011.14	2,887.51	123.62	24.358		
6,200.00	5,232.29	16,659.00	7,678.61	63.61	161.70	-156.40	1,782.50	1,390.88	2,961.85	2,834.60	127.24	23.277		
6,300.00	5,310.41	16,659.00	7,678.61	64.93	161.70	-156.40	1,782.50	1,390.88	2,915.15	2,784.15	131.00	22.253		
6,400.00	5,388.53	16,659.00	7,678.61	66.26	161.70	-156.40	1,782.50	1,390.88	2,871.18	2,736.29	134.89	21.286		
6,500.00	5,466.64	16,659.00	7,678.61	67.59	161.70	-156.40	1,782.50	1,390.88	2,830.07	2,691.18	138.88	20.377		
6,600.00	5,544.76	16,659.00	7,678.61	68.92	161.70	-156.40	1,782.50	1,390.88	2,791.93	2,648.96	142.97	19.528		
6,700.00	5,622.88	16,659.00	7,678.61	70.25	161.70	-156.40	1,782.50	1,390.88	2,756.89	2,609.76	147.13	18.738		
6,800.00	5,701.00	16,659.00	7,678.61	71.58	161.70	-156.40	1,782.50	1,390.88	2,725.07	2,573.74	151.33	18.007		
6,900.00	5,779.11	16,659.00	7,678.61	72.91	161.70	-156.40	1,782.50	1,390.88	2,696.59	2,541.03	155.56	17.335		
7,000.00	5,857.23	16,659.00	7,678.61	74.23	161.70	-156.40	1,782.50	1,390.88	2,671.55	2,511.77	159.78	16.720		
7,100.00	5,935.35	16,659.00	7,678.61	75.56	161.70	-156.40	1,782.50	1,390.88	2,650.05	2,486.08	163.97	16.162		
7,200.00	6,013.46	16,659.00	7,678.61	76.89	161.70	-156.40	1,782.50	1,390.88	2,632.18	2,464.08	168.09	15.659		
7,300.00	6,091.58	16,659.00	7,678.61	78.22	161.70	-156.40	1,782.50	1,390.88	2,618.00	2,445.87	172.13	15.209		
7,400.00	6,169.70	16,659.00	7,678.61	79.55	161.70	-156.40	1,782.50	1,390.88	2,607.59	2,431.54	176.05	14.812		
7,500.00	6,247.81	16,659.00	7,678.61	80.88	161.70	-156.40	1,782.50	1,390.88	2,600.98	2,421.16	179.82	14.464		
7,600.00	6,325.93	16,659.00	7,678.61	82.21	161.70	-156.40	1,782.50	1,390.88	2,598.21	2,414.78	183.43	14.164		
7,622.09	6,343.18	16,659.00	7,678.61	82.51	161.70	-156.40	1,782.50	1,390.88	2,598.11	2,413.91	184.20	14.105 CC		
7,700.00	6,404.05	16,659.00	7,678.61	83.54	161.70	-156.40	1,782.50	1,390.88	2,599.28	2,412.43	186.85	13.911 ES		
7,800.00	6,482.17	16,659.00	7,678.61	84.87	161.70	-156.40	1,782.50	1,390.88	2,604.20	2,414.14	190.06	13.702		
7,900.00	6,560.28	16,659.00	7,678.61	86.20	161.70	-156.40	1,782.50	1,390.88	2,612.94	2,419.89	193.05	13.535		
8,000.00	6,638.40	16,659.00	7,678.61	87.53	161.70	-156.40	1,782.50	1,390.88	2,625.46	2,429.66	195.80	13.409		
8,100.00	6,716.52	16,659.00	7,678.61	88.86	161.70	-156.40	1,782.50	1,390.88	2,641.70	2,443.40	198.31	13.321		
8,200.00	6,794.63	16,659.00	7,678.61	90.20	161.70	-156.40	1,782.50	1,390.88	2,661.61	2,461.05	200.57	13.270		
8,300.00	6,872.75	16,659.33	7,678.62	91.53	161.70	-156.41	1,782.17	1,390.88	2,685.10	2,482.52	202.58	13.255 SF		
8,400.00	6,950.87	16,634.64	7,678.32	92.86	161.27	-155.88	1,806.86	1,390.69	2,711.96	2,507.48	204.49	13.262		
8,500.00	7,028.98	16,612.05	7,678.03	94.19	160.88	-155.36	1,831.54	1,390.51	2,741.99	2,535.78	206.21	13.297		
8,600.00	7,107.10	16,586.22	7,677.78	95.52	160.43	-154.85	1,855.28	1,390.34	2,775.09	2,567.44	207.64	13.365		
8,647.91	7,144.53	16,574.67	7,677.68	96.16	160.23	-154.61	1,866.83	1,390.26	2,791.99	2,583.72	208.27	13.405		
8,650.00	7,146.16	16,574.16	7,677.68	96.18	160.22	-154.93	1,867.33	1,390.26	2,792.75	2,584.45	208.30	13.407		
8,700.00	7,185.66	16,564.24	7,677.61	96.84	160.05	-162.88	1,877.26	1,390.19	2,811.33	2,602.41	208.92	13.456		
8,750.00	7,225.78	16,558.42	7,677.57	97.47	159.95	-171.49	1,883.08	1,390.15	2,830.90	2,621.39	209.51	13.512		
8,800.00	7,266.21	16,556.81	7,677.56	98.08	159.92	179.45	1,884.68	1,390.14	2,851.32	2,641.25	210.07	13.573		
8,850.00	7,306.63	16,559.48	7,677.58	98.64	159.97	170.21	1,882.01	1,390.16	2,872.43	2,661.84	210.59	13.640		
8,900.00	7,346.75	16,566.48	7,677.62	99.17	160.09	161.06	1,875.01	1,390.20	2,894.04	2,682.96	211.08	13.711		
8,950.00	7,386.25	16,577.82	7,677.71	99.64	160.28	152.23	1,863.67	1,390.28	2,915.94	2,704.42	211.52	13.786		
9,000.00	7,424.84	16,593.46	7,677.85	100.06	160.56	143.89	1,848.04	1,390.39	2,937.92	2,725.99	211.92	13.863		
9,050.00	7,462.22	16,613.34	7,678.07	100.42	160.90	136.15	1,828.16	1,390.54	2,959.73	2,747.44	212.30	13.941		
9,100.00	7,498.11	16,637.11	7,678.35	100.74	161.32	129.08	1,804.38	1,390.71	2,981.15	2,768.50	212.65	14.019		
9,150.00	7,532.24	16,659.00	7,678.61	100.99	161.70	122.78	1,782.50	1,390.88	3,001.92	2,788.91	213.01	14.093		
9,200.00	7,564.34	16,659.00	7,678.61	101.19	161.70	117.50	1,782.50	1,390.88	3,022.02	2,808.54	213.48	14.156		
9,250.00	7,594.17	16,659.00	7,678.61	101.34	161.70	112.83	1,782.50	1,390.88	3,041.39	2,827.44	213.95	14.216		
9,300.00	7,621.50	16,659.00	7,678.61	101.45	161.70	108.71	1,782.50	1,390.88	3,059.89	2,845.48	214.40	14.272		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	16,659.00	7,678.61	101.50	161.70	105.12	1,782.50	1,390.88	3,077.40	2,862.55	214.85	14.323		
9,400.00	7,667.87	16,659.00	7,678.61	101.51	161.70	102.00	1,782.50	1,390.88	3,093.80	2,878.51	215.29	14.370		
9,450.00	7,686.55	16,659.00	7,678.61	101.48	161.70	99.32	1,782.50	1,390.88	3,108.99	2,893.27	215.72	14.412		
9,500.00	7,702.04	16,659.00	7,678.61	101.42	161.70	97.06	1,782.50	1,390.88	3,122.87	2,906.73	216.14	14.448		
9,550.00	7,714.20	16,659.00	7,678.61	101.33	161.70	95.20	1,782.50	1,390.88	3,135.36	2,918.80	216.56	14.478		
9,600.00	7,722.96	16,659.00	7,678.61	101.20	161.70	93.71	1,782.50	1,390.88	3,146.37	2,929.40	216.97	14.501		
9,650.00	7,728.24	16,659.00	7,678.61	101.06	161.70	92.59	1,782.50	1,390.88	3,155.84	2,938.47	217.37	14.518		
9,699.97	7,730.00	16,659.00	7,678.61	100.90	161.70	91.82	1,782.50	1,390.88	3,163.70	2,945.94	217.76	14.528		
9,800.00	7,730.00	16,659.00	7,678.61	100.56	161.70	91.82	1,782.50	1,390.88	3,179.35	2,960.90	218.46	14.554		
9,900.00	7,730.00	16,659.00	7,678.61	100.24	161.70	91.82	1,782.50	1,390.88	3,198.05	2,979.05	219.00	14.603		
10,000.00	7,730.00	16,659.00	7,678.61	99.93	161.70	91.82	1,782.50	1,390.88	3,219.75	3,000.35	219.40	14.675		
10,100.00	7,730.00	16,659.00	7,678.61	99.64	161.70	91.82	1,782.50	1,390.88	3,244.38	3,024.74	219.65	14.771		
10,200.00	7,730.00	16,659.00	7,678.61	99.36	161.70	91.82	1,782.50	1,390.88	3,271.89	3,052.14	219.75	14.889		
10,300.00	7,730.00	16,659.00	7,678.61	99.09	161.70	91.82	1,782.50	1,390.88	3,302.20	3,082.49	219.71	15.030		
10,400.00	7,730.00	16,659.00	7,678.61	98.84	161.70	91.82	1,782.50	1,390.88	3,335.23	3,115.69	219.54	15.192		
10,500.00	7,730.00	16,659.00	7,678.61	98.61	161.70	91.82	1,782.50	1,390.88	3,370.91	3,151.66	219.24	15.375		
10,600.00	7,730.00	16,659.00	7,678.61	98.39	161.70	91.82	1,782.50	1,390.88	3,409.14	3,190.32	218.82	15.579		
10,700.00	7,730.00	16,659.00	7,678.61	98.18	161.70	91.82	1,782.50	1,390.88	3,449.85	3,231.56	218.29	15.804		
10,800.00	7,730.00	16,659.00	7,678.61	97.99	161.70	91.82	1,782.50	1,390.88	3,492.96	3,275.30	217.66	16.048		
10,900.00	7,730.00	16,659.00	7,678.61	97.81	161.70	91.82	1,782.50	1,390.88	3,538.36	3,321.43	216.93	16.311		
11,000.00	7,730.00	16,659.00	7,678.61	97.64	161.70	91.82	1,782.50	1,390.88	3,585.98	3,369.86	216.12	16.593		
11,100.00	7,730.00	16,659.00	7,678.61	97.50	161.70	91.82	1,782.50	1,390.88	3,635.72	3,420.50	215.22	16.893		
11,200.00	7,730.00	16,659.00	7,678.61	97.36	161.70	91.82	1,782.50	1,390.88	3,687.51	3,473.25	214.26	17.211		
11,300.00	7,730.00	16,659.00	7,678.61	97.24	161.70	91.82	1,782.50	1,390.88	3,741.25	3,528.02	213.23	17.545		
11,400.00	7,730.00	16,659.00	7,678.61	97.14	161.70	91.82	1,782.50	1,390.88	3,796.87	3,584.72	212.15	17.897		
11,500.00	7,730.00	16,659.00	7,678.61	97.06	161.70	91.82	1,782.50	1,390.88	3,854.28	3,643.25	211.02	18.265		
11,600.00	7,730.00	16,659.00	7,678.61	96.98	161.70	91.82	1,782.50	1,390.88	3,913.40	3,703.54	209.86	18.648		
11,700.00	7,730.00	16,659.00	7,678.61	96.93	161.70	91.82	1,782.50	1,390.88	3,974.16	3,765.50	208.65	19.047		
11,800.00	7,730.00	16,659.00	7,678.61	96.90	161.70	91.82	1,782.50	1,390.88	4,036.48	3,829.06	207.43	19.460		
11,900.00	7,730.00	16,659.00	7,678.61	96.88	161.70	91.82	1,782.50	1,390.88	4,100.30	3,894.12	206.17	19.888		
12,000.00	7,730.00	16,659.00	7,678.61	96.88	161.70	91.82	1,782.50	1,390.88	4,165.53	3,960.63	204.90	20.329		
12,100.00	7,730.00	16,659.00	7,678.61	96.90	161.70	91.82	1,782.50	1,390.88	4,232.13	4,028.51	203.62	20.784		
12,200.00	7,730.00	16,659.00	7,678.61	96.94	161.70	91.82	1,782.50	1,390.88	4,300.02	4,097.69	202.33	21.252		
12,300.00	7,730.00	16,659.00	7,678.61	97.00	161.70	91.82	1,782.50	1,390.88	4,369.14	4,168.10	201.04	21.733		
12,400.00	7,730.00	16,659.00	7,678.61	97.08	161.70	91.82	1,782.50	1,390.88	4,439.44	4,239.70	199.74	22.226		
12,500.00	7,730.00	16,659.00	7,678.61	97.18	161.70	91.82	1,782.50	1,390.88	4,510.87	4,312.42	198.45	22.731		
12,600.00	7,730.00	16,659.00	7,678.61	97.31	161.70	91.82	1,782.50	1,390.88	4,583.36	4,386.20	197.16	23.247		
12,700.00	7,730.00	16,659.00	7,678.61	97.46	161.70	91.82	1,782.50	1,390.88	4,656.87	4,460.99	195.88	23.774		
12,800.00	7,730.00	16,659.00	7,678.61	97.64	161.70	91.82	1,782.50	1,390.88	4,731.35	4,536.74	194.60	24.313		
12,900.00	7,730.00	16,659.00	7,678.61	97.85	161.70	91.82	1,782.50	1,390.88	4,806.75	4,613.41	193.34	24.861		
13,000.00	7,730.00	16,659.00	7,678.61	98.09	161.70	91.82	1,782.50	1,390.88	4,883.05	4,690.95	192.09	25.420		
13,100.00	7,730.00	16,659.00	7,678.61	98.35	161.70	91.82	1,782.50	1,390.88	4,960.18	4,769.32	190.86	25.989		
13,200.00	7,730.00	16,659.00	7,678.61	98.65	161.70	91.82	1,782.50	1,390.88	5,038.12	4,848.48	189.64	26.567		
13,300.00	7,730.00	16,659.00	7,678.61	98.98	161.70	91.82	1,782.50	1,390.88	5,116.82	4,928.39	188.43	27.155		
13,400.00	7,730.00	16,659.00	7,678.61	99.34	161.70	91.82	1,782.50	1,390.88	5,196.26	5,009.01	187.25	27.751		
13,500.00	7,730.00	16,659.00	7,678.61	99.74	161.70	91.82	1,782.50	1,390.88	5,276.40	5,090.32	186.08	28.356		
13,600.00	7,730.00	16,659.00	7,678.61	100.17	161.70	91.82	1,782.50	1,390.88	5,357.20	5,172.27	184.93	28.969		
13,700.00	7,730.00	16,659.00	7,678.61	100.65	161.70	91.82	1,782.50	1,390.88	5,438.64	5,254.85	183.79	29.591		
13,800.00	7,730.00	16,659.00	7,678.61	101.16	161.70	91.82	1,782.50	1,390.88	5,520.70	5,338.01	182.68	30.220		
13,900.00	7,730.00	16,659.00	7,678.61	101.71	161.70	91.82	1,782.50	1,390.88	5,603.33	5,421.74	181.59	30.857		
14,000.00	7,730.00	16,659.00	7,678.61	102.30	161.70	91.82	1,782.50	1,390.88	5,686.53	5,506.01	180.51	31.502		
14,100.00	7,730.00	16,659.00	7,678.61	102.93	161.70	91.82	1,782.50	1,390.88	5,770.25	5,590.79	179.46	32.153		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,659.00	7,678.61	103.60	161.70	91.82	1,782.50	1,390.88	5,854.49	5,676.07	178.43	32.812		
14,300.00	7,730.00	16,659.00	7,678.61	104.32	161.70	91.82	1,782.50	1,390.88	5,939.22	5,761.81	177.41	33.477		
14,400.00	7,730.00	16,659.00	7,678.61	105.07	161.70	91.82	1,782.50	1,390.88	6,024.41	5,848.00	176.42	34.149		
14,500.00	7,730.00	16,659.00	7,678.61	105.86	161.70	91.82	1,782.50	1,390.88	6,110.06	5,934.62	175.44	34.827		
14,600.00	7,730.00	16,659.00	7,678.61	106.70	161.70	91.82	1,782.50	1,390.88	6,196.13	6,021.65	174.49	35.511		
14,700.00	7,730.00	16,659.00	7,678.61	107.57	161.70	91.82	1,782.50	1,390.88	6,282.62	6,109.07	173.55	36.201		
14,800.00	7,730.00	16,659.00	7,678.61	108.48	161.70	91.82	1,782.50	1,390.88	6,369.50	6,196.87	172.63	36.897		
14,900.00	7,730.00	16,659.00	7,678.61	109.43	161.70	91.82	1,782.50	1,390.88	6,456.76	6,285.03	171.73	37.598		
15,000.00	7,730.00	16,659.00	7,678.61	110.42	161.70	91.82	1,782.50	1,390.88	6,544.39	6,373.54	170.85	38.305		
15,100.00	7,730.00	16,659.00	7,678.61	111.43	161.70	91.82	1,782.50	1,390.88	6,632.37	6,462.38	169.99	39.016		
15,200.00	7,730.00	16,659.00	7,678.61	112.49	161.70	91.82	1,782.50	1,390.88	6,720.68	6,551.53	169.14	39.733		
15,300.00	7,730.00	16,659.00	7,678.61	113.57	161.70	91.82	1,782.50	1,390.88	6,809.31	6,641.00	168.32	40.455		
15,400.00	7,730.00	16,659.00	7,678.61	114.68	161.70	91.82	1,782.50	1,390.88	6,898.26	6,730.75	167.51	41.182		
15,500.00	7,730.00	16,659.00	7,678.61	115.82	161.70	91.82	1,782.50	1,390.88	6,987.51	6,820.79	166.72	41.913		
15,600.00	7,730.00	16,659.00	7,678.61	116.99	161.70	91.82	1,782.50	1,390.88	7,077.04	6,911.10	165.94	42.648		
15,700.00	7,730.00	16,659.00	7,678.61	118.19	161.70	91.82	1,782.50	1,390.88	7,166.85	7,001.67	165.18	43.388		
15,800.00	7,730.00	16,659.00	7,678.61	119.41	161.70	91.82	1,782.50	1,390.88	7,256.93	7,092.49	164.44	44.132		
15,900.00	7,730.00	16,659.00	7,678.61	120.65	161.70	91.82	1,782.50	1,390.88	7,347.26	7,183.55	163.71	44.880		
16,000.00	7,730.00	16,659.00	7,678.61	121.91	161.70	91.82	1,782.50	1,390.88	7,437.84	7,274.85	163.00	45.632		
16,100.00	7,730.00	16,659.00	7,678.61	123.20	161.70	91.82	1,782.50	1,390.88	7,528.66	7,366.36	162.30	46.388		
16,200.00	7,730.00	16,659.00	7,678.61	124.50	161.70	91.82	1,782.50	1,390.88	7,619.71	7,458.09	161.62	47.147		
16,300.00	7,730.00	16,659.00	7,678.61	125.82	161.70	91.82	1,782.50	1,390.88	7,710.98	7,550.03	160.95	47.910		
16,400.00	7,730.00	16,659.00	7,678.61	127.16	161.70	91.82	1,782.50	1,390.88	7,802.47	7,642.17	160.29	48.676		
16,500.00	7,730.00	16,659.00	7,678.61	128.52	161.70	91.82	1,782.50	1,390.88	7,894.16	7,734.50	159.65	49.446		
16,600.00	7,730.00	16,659.00	7,678.61	129.89	161.70	91.82	1,782.50	1,390.88	7,986.05	7,827.02	159.02	50.219		
16,700.00	7,730.00	16,659.00	7,678.61	131.27	161.70	91.82	1,782.50	1,390.88	8,078.13	7,919.72	158.41	50.995		
16,800.00	7,730.00	16,659.00	7,678.61	132.67	161.70	91.82	1,782.50	1,390.88	8,170.40	8,012.59	157.81	51.774		
16,900.00	7,730.00	16,659.00	7,678.61	134.09	161.70	91.82	1,782.50	1,390.88	8,262.85	8,105.63	157.22	52.555		
17,000.00	7,730.00	16,659.00	7,678.61	135.51	161.70	91.82	1,782.50	1,390.88	8,355.47	8,198.83	156.65	53.340		
17,100.00	7,730.00	16,659.00	7,678.61	136.95	161.70	91.82	1,782.50	1,390.88	8,448.26	8,292.18	156.08	54.127		
17,200.00	7,730.00	16,659.00	7,678.61	138.40	161.70	91.82	1,782.50	1,390.88	8,541.22	8,385.69	155.53	54.917		
17,300.00	7,730.00	16,659.00	7,678.61	139.85	161.70	91.82	1,782.50	1,390.88	8,634.33	8,479.34	154.99	55.710		
17,400.00	7,730.00	16,659.00	7,678.61	141.32	161.70	91.82	1,782.50	1,390.88	8,727.60	8,573.14	154.46	56.504		
17,500.00	7,730.00	16,659.00	7,678.61	142.80	161.70	91.82	1,782.50	1,390.88	8,821.01	8,667.07	153.94	57.302		
17,600.00	7,730.00	16,659.00	7,678.61	144.28	161.70	91.82	1,782.50	1,390.88	8,914.56	8,761.13	153.43	58.101		
17,700.00	7,730.00	16,659.00	7,678.61	145.78	161.70	91.82	1,782.50	1,390.88	9,008.25	8,855.32	152.93	58.903		
17,800.00	7,730.00	16,659.00	7,678.61	147.28	161.70	91.82	1,782.50	1,390.88	9,102.08	8,949.63	152.45	59.706		
17,900.00	7,730.00	16,659.00	7,678.61	148.79	161.70	91.82	1,782.50	1,390.88	9,196.04	9,044.07	151.97	60.512		
18,000.00	7,730.00	16,659.00	7,678.61	150.31	161.70	91.82	1,782.50	1,390.88	9,290.12	9,138.62	151.50	61.320		
18,100.00	7,730.00	16,659.00	7,678.61	151.83	161.70	91.82	1,782.50	1,390.88	9,384.33	9,233.28	151.04	62.130		
18,200.00	7,730.00	16,659.00	7,678.61	153.37	161.70	91.82	1,782.50	1,390.88	9,478.65	9,328.06	150.60	62.941		
18,300.00	7,730.00	16,659.00	7,678.61	154.90	161.70	91.82	1,782.50	1,390.88	9,573.09	9,422.94	150.16	63.754		
18,400.00	7,730.00	16,659.00	7,678.61	156.45	161.70	91.82	1,782.50	1,390.88	9,667.65	9,517.92	149.73	64.569		
18,500.00	7,730.00	16,659.00	7,678.61	158.00	161.70	91.82	1,782.50	1,390.88	9,762.31	9,613.00	149.30	65.386		
18,600.00	7,730.00	16,659.00	7,678.61	159.55	161.70	91.82	1,782.50	1,390.88	9,857.07	9,708.18	148.89	66.204		
18,700.00	7,730.00	16,659.00	7,678.61	161.11	161.70	91.82	1,782.50	1,390.88	9,951.94	9,803.45	148.48	67.023		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	16,530.00	7,789.95	0.00	159.85	41.86	1,780.17	1,594.87	8,292.85					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	41.86	1,780.17	1,594.87	8,197.14	8,120.03	77.11	106.299		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	41.86	1,780.17	1,594.87	8,101.54	8,024.34	77.20	104.940		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	41.86	1,780.17	1,594.87	8,006.05	7,928.74	77.30	103.567		
400.00	400.00	16,530.00	7,789.95	1.21	159.85	41.86	1,780.17	1,594.87	7,910.66	7,833.25	77.42	102.182		
500.00	500.00	16,530.00	7,789.95	1.57	159.85	41.86	1,780.17	1,594.87	7,815.39	7,737.85	77.54	100.786		
600.00	599.98	16,530.00	7,789.95	1.92	159.85	-26.24	1,780.17	1,594.87	7,719.77	7,642.09	77.68	99.374		
700.00	699.84	16,530.00	7,789.95	2.28	159.85	-29.64	1,780.17	1,594.87	7,623.37	7,545.55	77.82	97.958		
800.00	799.45	16,530.00	7,789.95	2.64	159.85	-33.90	1,780.17	1,594.87	7,526.29	7,448.35	77.95	96.558		
900.00	898.70	16,530.00	7,789.95	3.02	159.85	-39.33	1,780.17	1,594.87	7,428.62	7,350.57	78.05	95.174		
1,000.00	997.47	16,530.00	7,789.95	3.41	159.85	-46.31	1,780.17	1,594.87	7,330.47	7,252.32	78.14	93.811		
1,100.00	1,095.62	16,530.00	7,789.95	3.84	159.85	-55.31	1,780.17	1,594.87	7,231.92	7,153.71	78.21	92.470		
1,200.00	1,193.06	16,530.00	7,789.95	4.29	159.85	-66.62	1,780.17	1,594.87	7,133.09	7,054.83	78.26	91.152		
1,300.00	1,289.64	16,530.00	7,789.95	4.78	159.85	-80.06	1,780.17	1,594.87	7,034.08	6,955.80	78.28	89.858		
1,400.00	1,385.27	16,530.00	7,789.95	5.32	159.85	-94.47	1,780.17	1,594.87	6,935.03	6,856.74	78.28	88.591		
1,500.00	1,479.82	16,530.00	7,789.95	5.90	159.85	-108.15	1,780.17	1,594.87	6,836.03	6,757.77	78.26	87.349		
1,600.00	1,573.17	16,530.00	7,789.95	6.53	159.85	-119.84	1,780.17	1,594.87	6,737.23	6,659.01	78.22	86.133		
1,700.00	1,665.21	16,530.00	7,789.95	7.23	159.85	-129.17	1,780.17	1,594.87	6,638.75	6,560.60	78.16	84.942		
1,800.00	1,755.84	16,530.00	7,789.95	7.98	159.85	-136.44	1,780.17	1,594.87	6,540.74	6,462.66	78.08	83.775		
1,900.00	1,844.94	16,530.00	7,789.95	8.80	159.85	-142.07	1,780.17	1,594.87	6,443.32	6,365.34	77.98	82.630		
2,000.00	1,932.39	16,530.00	7,789.95	9.68	159.85	-146.48	1,780.17	1,594.87	6,346.66	6,268.79	77.87	81.505		
2,100.00	2,018.11	16,530.00	7,789.95	10.63	159.85	-149.98	1,780.17	1,594.87	6,250.91	6,173.16	77.75	80.397		
2,200.00	2,101.97	16,530.00	7,789.95	11.65	159.85	-152.80	1,780.17	1,594.87	6,156.22	6,078.59	77.63	79.303		
2,300.00	2,183.88	16,530.00	7,789.95	12.74	159.85	-155.11	1,780.17	1,594.87	6,062.78	5,985.26	77.51	78.217		
2,400.00	2,263.74	16,530.00	7,789.95	13.90	159.85	-157.02	1,780.17	1,594.87	5,970.74	5,893.34	77.40	77.137		
2,431.61	2,288.54	16,530.00	7,789.95	14.29	159.85	-157.55	1,780.17	1,594.87	5,941.98	5,864.61	77.37	76.801		
2,500.00	2,341.97	16,530.00	7,789.95	15.13	159.85	-157.55	1,780.17	1,594.87	5,879.98	5,802.66	77.32	76.049		
2,600.00	2,420.08	16,530.00	7,789.95	16.37	159.85	-157.55	1,780.17	1,594.87	5,789.59	5,712.31	77.27	74.925		
2,700.00	2,498.20	16,530.00	7,789.95	17.63	159.85	-157.55	1,780.17	1,594.87	5,699.51	5,622.26	77.25	73.776		
2,800.00	2,576.32	16,530.00	7,789.95	18.89	159.85	-157.55	1,780.17	1,594.87	5,609.78	5,532.52	77.26	72.606		
2,900.00	2,654.43	16,530.00	7,789.95	20.17	159.85	-157.55	1,780.17	1,594.87	5,520.40	5,443.10	77.30	71.415		
3,000.00	2,732.55	16,530.00	7,789.95	21.45	159.85	-157.55	1,780.17	1,594.87	5,431.38	5,354.02	77.37	70.203		
3,100.00	2,810.67	16,530.00	7,789.95	22.74	159.85	-157.55	1,780.17	1,594.87	5,342.76	5,265.30	77.46	68.972		
3,200.00	2,888.78	16,530.00	7,789.95	24.03	159.85	-157.55	1,780.17	1,594.87	5,254.55	5,176.95	77.59	67.721		
3,300.00	2,966.90	16,530.00	7,789.95	25.33	159.85	-157.55	1,780.17	1,594.87	5,166.76	5,089.01	77.75	66.453		
3,400.00	3,045.02	16,530.00	7,789.95	26.63	159.85	-157.55	1,780.17	1,594.87	5,079.43	5,001.48	77.95	65.166		
3,500.00	3,123.13	16,530.00	7,789.95	27.94	159.85	-157.55	1,780.17	1,594.87	4,992.57	4,914.39	78.18	63.861		
3,600.00	3,201.25	16,530.00	7,789.95	29.24	159.85	-157.55	1,780.17	1,594.87	4,906.21	4,827.76	78.45	62.538		
3,700.00	3,279.37	16,530.00	7,789.95	30.55	159.85	-157.55	1,780.17	1,594.87	4,820.38	4,741.61	78.77	61.197		
3,800.00	3,357.49	16,530.00	7,789.95	31.86	159.85	-157.55	1,780.17	1,594.87	4,735.10	4,655.97	79.13	59.838		
3,900.00	3,435.60	16,530.00	7,789.95	33.18	159.85	-157.55	1,780.17	1,594.87	4,650.41	4,570.87	79.55	58.462		
4,000.00	3,513.72	16,530.00	7,789.95	34.49	159.85	-157.55	1,780.17	1,594.87	4,566.35	4,486.33	80.02	57.067		
4,100.00	3,591.84	16,530.00	7,789.95	35.81	159.85	-157.55	1,780.17	1,594.87	4,482.93	4,402.38	80.55	55.655		
4,200.00	3,669.95	16,530.00	7,789.95	37.12	159.85	-157.55	1,780.17	1,594.87	4,400.21	4,319.06	81.14	54.226		
4,300.00	3,748.07	16,530.00	7,789.95	38.44	159.85	-157.55	1,780.17	1,594.87	4,318.22	4,236.40	81.81	52.781		
4,400.00	3,826.19	16,530.00	7,789.95	39.76	159.85	-157.55	1,780.17	1,594.87	4,237.00	4,154.44	82.56	51.320		
4,500.00	3,904.30	16,530.00	7,789.95	41.08	159.85	-157.55	1,780.17	1,594.87	4,156.60	4,073.21	83.39	49.845		
4,600.00	3,982.42	16,530.00	7,789.95	42.40	159.85	-157.55	1,780.17	1,594.87	4,077.07	3,992.75	84.31	48.357		
4,700.00	4,060.54	16,530.00	7,789.95	43.72	159.85	-157.55	1,780.17	1,594.87	3,998.45	3,913.12	85.33	46.857		
4,800.00	4,138.66	16,530.00	7,789.95	45.05	159.85	-157.55	1,780.17	1,594.87	3,920.81	3,834.35	86.46	45.348		
4,900.00	4,216.77	16,530.00	7,789.95	46.37	159.85	-157.55	1,780.17	1,594.87	3,844.21	3,756.51	87.70	43.832		
5,000.00	4,294.89	16,530.00	7,789.95	47.69	159.85	-157.55	1,780.17	1,594.87	3,768.70	3,679.63	89.07	42.313		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	16,530.00	7,789.95	49.02	159.85	-157.55	1,780.17	1,594.87	3,694.36	3,603.79	90.56	40.793		
5,200.00	4,451.12	16,530.00	7,789.95	50.34	159.85	-157.55	1,780.17	1,594.87	3,621.25	3,529.05	92.20	39.277		
5,300.00	4,529.24	16,530.00	7,789.95	51.67	159.85	-157.55	1,780.17	1,594.87	3,549.45	3,455.47	93.98	37.768		
5,400.00	4,607.36	16,530.00	7,789.95	52.99	159.85	-157.55	1,780.17	1,594.87	3,479.04	3,383.13	95.92	36.272		
5,500.00	4,685.47	16,530.00	7,789.95	54.32	159.85	-157.55	1,780.17	1,594.87	3,410.12	3,312.10	98.01	34.792		
5,600.00	4,763.59	16,530.00	7,789.95	55.64	159.85	-157.55	1,780.17	1,594.87	3,342.76	3,242.48	100.28	33.334		
5,700.00	4,841.71	16,530.00	7,789.95	56.97	159.85	-157.55	1,780.17	1,594.87	3,277.07	3,174.35	102.72	31.903		
5,800.00	4,919.83	16,530.00	7,789.95	58.30	159.85	-157.55	1,780.17	1,594.87	3,213.16	3,107.82	105.34	30.504		
5,900.00	4,997.94	16,530.00	7,789.95	59.62	159.85	-157.55	1,780.17	1,594.87	3,151.12	3,042.98	108.13	29.141		
6,000.00	5,076.06	16,530.00	7,789.95	60.95	159.85	-157.55	1,780.17	1,594.87	3,091.07	2,979.95	111.11	27.819		
6,100.00	5,154.18	16,530.00	7,789.95	62.28	159.85	-157.55	1,780.17	1,594.87	3,033.12	2,918.85	114.27	26.543		
6,200.00	5,232.29	16,530.00	7,789.95	63.61	159.85	-157.55	1,780.17	1,594.87	2,977.42	2,859.81	117.61	25.316		
6,300.00	5,310.41	16,530.00	7,789.95	64.93	159.85	-157.55	1,780.17	1,594.87	2,924.07	2,802.95	121.12	24.142		
6,400.00	5,388.53	16,530.00	7,789.95	66.26	159.85	-157.55	1,780.17	1,594.87	2,873.21	2,748.42	124.79	23.024		
6,500.00	5,466.64	16,530.00	7,789.95	67.59	159.85	-157.55	1,780.17	1,594.87	2,824.97	2,696.36	128.61	21.965		
6,600.00	5,544.76	16,530.00	7,789.95	68.92	159.85	-157.55	1,780.17	1,594.87	2,779.50	2,646.92	132.58	20.965		
6,700.00	5,622.88	16,530.00	7,789.95	70.25	159.85	-157.55	1,780.17	1,594.87	2,736.93	2,600.27	136.66	20.027		
6,800.00	5,701.00	16,530.00	7,789.95	71.58	159.85	-157.55	1,780.17	1,594.87	2,697.40	2,556.54	140.85	19.150		
6,900.00	5,779.11	16,530.00	7,789.95	72.91	159.85	-157.55	1,780.17	1,594.87	2,661.04	2,515.91	145.12	18.337		
7,000.00	5,857.23	16,530.00	7,789.95	74.23	159.85	-157.55	1,780.17	1,594.87	2,627.98	2,478.53	149.44	17.585		
7,100.00	5,935.35	16,530.00	7,789.95	75.56	159.85	-157.55	1,780.17	1,594.87	2,598.35	2,444.56	153.79	16.895		
7,200.00	6,013.46	16,530.00	7,789.95	76.89	159.85	-157.55	1,780.17	1,594.87	2,572.27	2,414.13	158.14	16.266		
7,300.00	6,091.58	16,530.00	7,789.95	78.22	159.85	-157.55	1,780.17	1,594.87	2,549.85	2,387.40	162.46	15.696		
7,400.00	6,169.70	16,530.00	7,789.95	79.55	159.85	-157.55	1,780.17	1,594.87	2,531.19	2,364.48	166.71	15.183		
7,500.00	6,247.81	16,530.00	7,789.95	80.88	159.85	-157.55	1,780.17	1,594.87	2,516.36	2,345.50	170.86	14.728		
7,600.00	6,325.93	16,530.00	7,789.95	82.21	159.85	-157.55	1,780.17	1,594.87	2,505.44	2,330.55	174.89	14.326		
7,700.00	6,404.05	16,530.00	7,789.95	83.54	159.85	-157.55	1,780.17	1,594.87	2,498.48	2,319.72	178.76	13.977		
7,800.00	6,482.17	16,530.00	7,789.95	84.87	159.85	-157.55	1,780.17	1,594.87	2,495.50	2,313.06	182.44	13.678		
7,824.21	6,501.08	16,530.00	7,789.95	85.20	159.85	-157.55	1,780.17	1,594.87	2,495.39	2,312.08	183.30	13.613 CC		
7,900.00	6,560.28	16,530.00	7,789.95	86.20	159.85	-157.55	1,780.17	1,594.87	2,496.54	2,310.62	185.92	13.428 ES		
8,000.00	6,638.40	16,530.00	7,789.95	87.53	159.85	-157.55	1,780.17	1,594.87	2,501.57	2,312.40	189.17	13.224		
8,100.00	6,716.52	16,530.00	7,789.95	88.86	159.85	-157.55	1,780.17	1,594.87	2,510.58	2,318.40	192.18	13.064		
8,200.00	6,794.63	16,530.00	7,789.95	90.20	159.85	-157.55	1,780.17	1,594.87	2,523.52	2,328.60	194.93	12.946		
8,300.00	6,872.75	16,530.00	7,789.95	91.53	159.85	-157.55	1,780.17	1,594.87	2,540.34	2,342.93	197.41	12.868		
8,400.00	6,950.87	16,530.00	7,789.95	92.86	159.85	-157.55	1,780.17	1,594.87	2,560.95	2,361.32	199.63	12.828		
8,500.00	7,028.98	16,530.00	7,789.95	94.19	159.85	-157.55	1,780.17	1,594.87	2,585.28	2,383.69	201.58	12.825 SF		
8,600.00	7,107.10	16,530.00	7,789.95	95.52	159.85	-157.55	1,780.17	1,594.87	2,613.20	2,409.92	203.27	12.856		
8,647.91	7,144.53	16,530.00	7,789.95	96.16	159.85	-157.55	1,780.17	1,594.87	2,627.82	2,423.83	203.99	12.882		
8,650.00	7,146.16	16,530.00	7,789.95	96.18	159.85	-157.87	1,780.17	1,594.87	2,628.48	2,424.45	204.02	12.883		
8,700.00	7,185.66	16,530.00	7,789.95	96.84	159.85	-165.76	1,780.17	1,594.87	2,644.69	2,439.94	204.75	12.917		
8,750.00	7,225.78	16,530.00	7,789.95	97.47	159.85	-174.19	1,780.17	1,594.87	2,661.80	2,456.32	205.47	12.954		
8,800.00	7,266.21	16,530.00	7,789.95	98.08	159.85	177.05	1,780.17	1,594.87	2,679.65	2,473.45	206.20	12.995		
8,850.00	7,306.63	16,530.00	7,789.95	98.64	159.85	168.21	1,780.17	1,594.87	2,698.11	2,491.19	206.92	13.040		
8,900.00	7,346.75	16,530.00	7,789.95	99.17	159.85	159.57	1,780.17	1,594.87	2,717.02	2,509.39	207.62	13.086		
8,950.00	7,386.25	16,530.00	7,789.95	99.64	159.85	151.34	1,780.17	1,594.87	2,736.22	2,527.90	208.32	13.135		
9,000.00	7,424.84	16,530.00	7,789.95	100.06	159.85	143.66	1,780.17	1,594.87	2,755.57	2,546.58	208.99	13.185		
9,050.00	7,462.22	16,530.00	7,789.95	100.42	159.85	136.63	1,780.17	1,594.87	2,774.92	2,565.26	209.65	13.236		
9,100.00	7,498.11	16,530.00	7,789.95	100.74	159.85	130.26	1,780.17	1,594.87	2,794.12	2,583.82	210.29	13.287		
9,150.00	7,532.24	16,530.00	7,789.95	100.99	159.85	124.54	1,780.17	1,594.87	2,813.03	2,602.11	210.92	13.337		
9,200.00	7,564.34	16,530.00	7,789.95	101.19	159.85	119.44	1,780.17	1,594.87	2,831.51	2,619.99	211.52	13.387		
9,250.00	7,594.17	16,530.00	7,789.95	101.34	159.85	114.91	1,780.17	1,594.87	2,849.44	2,637.34	212.10	13.434		
9,300.00	7,621.50	16,530.00	7,789.95	101.45	159.85	110.91	1,780.17	1,594.87	2,866.68	2,654.02	212.67	13.480		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	16,530.00	7,789.95	101.50	159.85	107.40	1,780.17	1,594.87	2,883.13	2,669.91	213.22	13.522		
9,400.00	7,667.87	16,530.00	7,789.95	101.51	159.85	104.34	1,780.17	1,594.87	2,898.66	2,684.92	213.74	13.561		
9,450.00	7,686.55	16,530.00	7,789.95	101.48	159.85	101.70	1,780.17	1,594.87	2,913.19	2,698.93	214.26	13.597		
9,500.00	7,702.04	16,530.00	7,789.95	101.42	159.85	99.46	1,780.17	1,594.87	2,926.60	2,711.85	214.75	13.628		
9,550.00	7,714.20	16,530.00	7,789.95	101.33	159.85	97.60	1,780.17	1,594.87	2,938.82	2,723.59	215.23	13.655		
9,600.00	7,722.96	16,530.00	7,789.95	101.20	159.85	96.09	1,780.17	1,594.87	2,949.77	2,734.08	215.68	13.676		
9,650.00	7,728.24	16,530.00	7,789.95	101.06	159.85	94.94	1,780.17	1,594.87	2,959.37	2,743.26	216.12	13.693		
9,699.97	7,730.00	16,530.00	7,789.95	100.90	159.85	94.12	1,780.17	1,594.87	2,967.58	2,751.05	216.53	13.705		
9,800.00	7,730.00	16,530.00	7,789.95	100.56	159.85	94.12	1,780.17	1,594.87	2,984.20	2,766.95	217.25	13.736		
9,900.00	7,730.00	16,530.00	7,789.95	100.24	159.85	94.12	1,780.17	1,594.87	3,004.06	2,786.26	217.80	13.793		
10,000.00	7,730.00	16,530.00	7,789.95	99.93	159.85	94.12	1,780.17	1,594.87	3,027.09	2,808.92	218.18	13.875		
10,100.00	7,730.00	16,530.00	7,789.95	99.64	159.85	94.12	1,780.17	1,594.87	3,053.23	2,834.84	218.38	13.981		
10,200.00	7,730.00	16,530.00	7,789.95	99.36	159.85	94.12	1,780.17	1,594.87	3,082.39	2,863.96	218.43	14.112		
10,300.00	7,730.00	16,530.00	7,789.95	99.09	159.85	94.12	1,780.17	1,594.87	3,114.49	2,896.17	218.32	14.266		
10,400.00	7,730.00	16,530.00	7,789.95	98.84	159.85	94.12	1,780.17	1,594.87	3,149.44	2,931.38	218.06	14.443		
10,500.00	7,730.00	16,530.00	7,789.95	98.61	159.85	94.12	1,780.17	1,594.87	3,187.14	2,969.48	217.66	14.643		
10,600.00	7,730.00	16,530.00	7,789.95	98.39	159.85	94.12	1,780.17	1,594.87	3,227.50	3,010.37	217.13	14.864		
10,700.00	7,730.00	16,530.00	7,789.95	98.18	159.85	94.12	1,780.17	1,594.87	3,270.43	3,053.95	216.48	15.107		
10,800.00	7,730.00	16,530.00	7,789.95	97.99	159.85	94.12	1,780.17	1,594.87	3,315.81	3,100.09	215.72	15.371		
10,900.00	7,730.00	16,530.00	7,789.95	97.81	159.85	94.12	1,780.17	1,594.87	3,363.56	3,148.70	214.86	15.654		
11,000.00	7,730.00	16,530.00	7,789.95	97.64	159.85	94.12	1,780.17	1,594.87	3,413.57	3,199.65	213.91	15.958		
11,100.00	7,730.00	16,530.00	7,789.95	97.50	159.85	94.12	1,780.17	1,594.87	3,465.74	3,252.85	212.89	16.280		
11,200.00	7,730.00	16,530.00	7,789.95	97.36	159.85	94.12	1,780.17	1,594.87	3,519.98	3,308.19	211.79	16.620		
11,300.00	7,730.00	16,530.00	7,789.95	97.24	159.85	94.12	1,780.17	1,594.87	3,576.20	3,365.56	210.64	16.978		
11,400.00	7,730.00	16,530.00	7,789.95	97.14	159.85	94.12	1,780.17	1,594.87	3,634.30	3,424.87	209.43	17.353		
11,500.00	7,730.00	16,530.00	7,789.95	97.06	159.85	94.12	1,780.17	1,594.87	3,694.19	3,486.01	208.18	17.745		
11,600.00	7,730.00	16,530.00	7,789.95	96.98	159.85	94.12	1,780.17	1,594.87	3,755.79	3,548.90	206.89	18.154		
11,700.00	7,730.00	16,530.00	7,789.95	96.93	159.85	94.12	1,780.17	1,594.87	3,819.01	3,613.44	205.57	18.577		
11,800.00	7,730.00	16,530.00	7,789.95	96.90	159.85	94.12	1,780.17	1,594.87	3,883.78	3,679.55	204.24	19.016		
11,900.00	7,730.00	16,530.00	7,789.95	96.88	159.85	94.12	1,780.17	1,594.87	3,950.03	3,747.14	202.88	19.470		
12,000.00	7,730.00	16,530.00	7,789.95	96.88	159.85	94.12	1,780.17	1,594.87	4,017.66	3,816.15	201.52	19.937		
12,100.00	7,730.00	16,530.00	7,789.95	96.90	159.85	94.12	1,780.17	1,594.87	4,086.63	3,886.48	200.14	20.418		
12,200.00	7,730.00	16,530.00	7,789.95	96.94	159.85	94.12	1,780.17	1,594.87	4,156.86	3,958.09	198.77	20.913		
12,300.00	7,730.00	16,530.00	7,789.95	97.00	159.85	94.12	1,780.17	1,594.87	4,228.28	4,030.88	197.40	21.420		
12,400.00	7,730.00	16,530.00	7,789.95	97.08	159.85	94.12	1,780.17	1,594.87	4,300.85	4,104.82	196.03	21.940		
12,500.00	7,730.00	16,530.00	7,789.95	97.18	159.85	94.12	1,780.17	1,594.87	4,374.49	4,179.82	194.67	22.471		
12,600.00	7,730.00	16,530.00	7,789.95	97.31	159.85	94.12	1,780.17	1,594.87	4,449.17	4,255.85	193.32	23.015		
12,700.00	7,730.00	16,530.00	7,789.95	97.46	159.85	94.12	1,780.17	1,594.87	4,524.82	4,332.84	191.98	23.569		
12,800.00	7,730.00	16,530.00	7,789.95	97.64	159.85	94.12	1,780.17	1,594.87	4,601.41	4,410.75	190.66	24.134		
12,900.00	7,730.00	16,530.00	7,789.95	97.85	159.85	94.12	1,780.17	1,594.87	4,678.87	4,489.52	189.35	24.710		
13,000.00	7,730.00	16,530.00	7,789.95	98.09	159.85	94.12	1,780.17	1,594.87	4,757.18	4,569.12	188.06	25.296		
13,100.00	7,730.00	16,530.00	7,789.95	98.35	159.85	94.12	1,780.17	1,594.87	4,836.29	4,649.50	186.79	25.891		
13,200.00	7,730.00	16,530.00	7,789.95	98.65	159.85	94.12	1,780.17	1,594.87	4,916.16	4,730.62	185.54	26.496		
13,300.00	7,730.00	16,530.00	7,789.95	98.98	159.85	94.12	1,780.17	1,594.87	4,996.75	4,812.44	184.31	27.110		
13,400.00	7,730.00	16,530.00	7,789.95	99.34	159.85	94.12	1,780.17	1,594.87	5,078.04	4,894.93	183.10	27.733		
13,500.00	7,730.00	16,530.00	7,789.95	99.74	159.85	94.12	1,780.17	1,594.87	5,159.98	4,978.06	181.92	28.365		
13,600.00	7,730.00	16,530.00	7,789.95	100.17	159.85	94.12	1,780.17	1,594.87	5,242.55	5,061.80	180.75	29.005		
13,700.00	7,730.00	16,530.00	7,789.95	100.65	159.85	94.12	1,780.17	1,594.87	5,325.71	5,146.11	179.60	29.652		
13,800.00	7,730.00	16,530.00	7,789.95	101.16	159.85	94.12	1,780.17	1,594.87	5,409.45	5,230.96	178.48	30.308		
13,900.00	7,730.00	16,530.00	7,789.95	101.71	159.85	94.12	1,780.17	1,594.87	5,493.73	5,316.34	177.38	30.971		
14,000.00	7,730.00	16,530.00	7,789.95	102.30	159.85	94.12	1,780.17	1,594.87	5,578.53	5,402.22	176.31	31.641		
14,100.00	7,730.00	16,530.00	7,789.95	102.93	159.85	94.12	1,780.17	1,594.87	5,663.82	5,488.57	175.25	32.318		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	16,530.00	7,789.95	103.60	159.85	94.12	1,780.17	1,594.87	5,749.59	5,575.37	174.22	33.002		
14,300.00	7,730.00	16,530.00	7,789.95	104.32	159.85	94.12	1,780.17	1,594.87	5,835.81	5,662.61	173.21	33.693		
14,400.00	7,730.00	16,530.00	7,789.95	105.07	159.85	94.12	1,780.17	1,594.87	5,922.47	5,750.25	172.22	34.390		
14,500.00	7,730.00	16,530.00	7,789.95	105.86	159.85	94.12	1,780.17	1,594.87	6,009.54	5,838.29	171.25	35.093		
14,600.00	7,730.00	16,530.00	7,789.95	106.70	159.85	94.12	1,780.17	1,594.87	6,097.00	5,926.70	170.30	35.802		
14,700.00	7,730.00	16,530.00	7,789.95	107.57	159.85	94.12	1,780.17	1,594.87	6,184.85	6,015.48	169.37	36.516		
14,800.00	7,730.00	16,530.00	7,789.95	108.48	159.85	94.12	1,780.17	1,594.87	6,273.06	6,104.60	168.46	37.237		
14,900.00	7,730.00	16,530.00	7,789.95	109.43	159.85	94.12	1,780.17	1,594.87	6,361.62	6,194.04	167.58	37.962		
15,000.00	7,730.00	16,530.00	7,789.95	110.42	159.85	94.12	1,780.17	1,594.87	6,450.51	6,283.80	166.71	38.693		
15,100.00	7,730.00	16,530.00	7,789.95	111.43	159.85	94.12	1,780.17	1,594.87	6,539.73	6,373.86	165.86	39.429		
15,200.00	7,730.00	16,530.00	7,789.95	112.49	159.85	94.12	1,780.17	1,594.87	6,629.25	6,464.22	165.03	40.169		
15,300.00	7,730.00	16,530.00	7,789.95	113.57	159.85	94.12	1,780.17	1,594.87	6,719.07	6,554.84	164.22	40.914		
15,400.00	7,730.00	16,530.00	7,789.95	114.68	159.85	94.12	1,780.17	1,594.87	6,809.17	6,645.74	163.43	41.664		
15,500.00	7,730.00	16,530.00	7,789.95	115.82	159.85	94.12	1,780.17	1,594.87	6,899.54	6,736.89	162.65	42.418		
15,600.00	7,730.00	16,530.00	7,789.95	116.99	159.85	94.12	1,780.17	1,594.87	6,990.18	6,828.28	161.90	43.177		
15,700.00	7,730.00	16,530.00	7,789.95	118.19	159.85	94.12	1,780.17	1,594.87	7,081.07	6,919.91	161.16	43.939		
15,800.00	7,730.00	16,530.00	7,789.95	119.41	159.85	94.12	1,780.17	1,594.87	7,172.20	7,011.77	160.43	44.706		
15,900.00	7,730.00	16,530.00	7,789.95	120.65	159.85	94.12	1,780.17	1,594.87	7,263.56	7,103.84	159.72	45.476		
16,000.00	7,730.00	16,530.00	7,789.95	121.91	159.85	94.12	1,780.17	1,594.87	7,355.15	7,196.12	159.03	46.250		
16,100.00	7,730.00	16,530.00	7,789.95	123.20	159.85	94.12	1,780.17	1,594.87	7,446.96	7,288.60	158.35	47.027		
16,200.00	7,730.00	16,530.00	7,789.95	124.50	159.85	94.12	1,780.17	1,594.87	7,538.97	7,381.28	157.69	47.808		
16,300.00	7,730.00	16,530.00	7,789.95	125.82	159.85	94.12	1,780.17	1,594.87	7,631.19	7,474.14	157.04	48.592		
16,400.00	7,730.00	16,530.00	7,789.95	127.16	159.85	94.12	1,780.17	1,594.87	7,723.60	7,567.18	156.41	49.380		
16,500.00	7,730.00	16,530.00	7,789.95	128.52	159.85	94.12	1,780.17	1,594.87	7,816.19	7,660.40	155.79	50.170		
16,600.00	7,730.00	16,530.00	7,789.95	129.89	159.85	94.12	1,780.17	1,594.87	7,908.97	7,753.78	155.19	50.964		
16,700.00	7,730.00	16,530.00	7,789.95	131.27	159.85	94.12	1,780.17	1,594.87	8,001.92	7,847.32	154.60	51.760		
16,800.00	7,730.00	16,530.00	7,789.95	132.67	159.85	94.12	1,780.17	1,594.87	8,095.04	7,941.02	154.02	52.560		
16,900.00	7,730.00	16,530.00	7,789.95	134.09	159.85	94.12	1,780.17	1,594.87	8,188.32	8,034.87	153.45	53.362		
17,000.00	7,730.00	16,530.00	7,789.95	135.51	159.85	94.12	1,780.17	1,594.87	8,281.75	8,128.86	152.90	54.166		
17,100.00	7,730.00	16,530.00	7,789.95	136.95	159.85	94.12	1,780.17	1,594.87	8,375.34	8,222.99	152.35	54.973		
17,200.00	7,730.00	16,530.00	7,789.95	138.40	159.85	94.12	1,780.17	1,594.87	8,469.08	8,317.25	151.82	55.783		
17,300.00	7,730.00	16,530.00	7,789.95	139.85	159.85	94.12	1,780.17	1,594.87	8,562.95	8,411.65	151.30	56.594		
17,400.00	7,730.00	16,530.00	7,789.95	141.32	159.85	94.12	1,780.17	1,594.87	8,656.97	8,506.17	150.80	57.408		
17,500.00	7,730.00	16,530.00	7,789.95	142.80	159.85	94.12	1,780.17	1,594.87	8,751.12	8,600.82	150.30	58.225		
17,600.00	7,730.00	16,530.00	7,789.95	144.28	159.85	94.12	1,780.17	1,594.87	8,845.39	8,695.58	149.81	59.043		
17,700.00	7,730.00	16,530.00	7,789.95	145.78	159.85	94.12	1,780.17	1,594.87	8,939.79	8,790.45	149.34	59.863		
17,800.00	7,730.00	16,530.00	7,789.95	147.28	159.85	94.12	1,780.17	1,594.87	9,034.31	8,885.44	148.87	60.685		
17,900.00	7,730.00	16,530.00	7,789.95	148.79	159.85	94.12	1,780.17	1,594.87	9,128.95	8,980.53	148.42	61.509		
18,000.00	7,730.00	16,530.00	7,789.95	150.31	159.85	94.12	1,780.17	1,594.87	9,223.70	9,075.73	147.97	62.335		
18,100.00	7,730.00	16,530.00	7,789.95	151.83	159.85	94.12	1,780.17	1,594.87	9,318.56	9,171.03	147.53	63.163		
18,200.00	7,730.00	16,530.00	7,789.95	153.37	159.85	94.12	1,780.17	1,594.87	9,413.52	9,266.42	147.11	63.992		
18,300.00	7,730.00	16,530.00	7,789.95	154.90	159.85	94.12	1,780.17	1,594.87	9,508.59	9,361.91	146.69	64.822		
18,400.00	7,730.00	16,530.00	7,789.95	156.45	159.85	94.12	1,780.17	1,594.87	9,603.76	9,457.49	146.28	65.655		
18,500.00	7,730.00	16,530.00	7,789.95	158.00	159.85	94.12	1,780.17	1,594.87	9,699.03	9,553.16	145.88	66.488		
18,600.00	7,730.00	16,530.00	7,789.95	159.55	159.85	94.12	1,780.17	1,594.87	9,794.39	9,648.91	145.48	67.324		
18,700.00	7,730.00	16,530.00	7,789.95	161.11	159.85	94.12	1,780.17	1,594.87	9,889.84	9,744.75	145.10	68.160		
18,800.00	7,730.00	16,530.00	7,789.95	162.68	159.85	94.12	1,780.17	1,594.87	9,985.39	9,840.67	144.72	68.998		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-55.16	787.25	-1,130.89	1,377.97					
100.00	100.00	85.49	85.49	0.13	0.13	-55.16	787.28	-1,131.04	1,378.08	1,377.81	0.27	5,126.007 ES		
200.00	200.00	180.47	180.47	0.49	0.28	-55.17	787.39	-1,131.56	1,378.59	1,377.81	0.78	1,775.768		
300.00	300.00	277.59	277.59	0.85	0.62	-55.18	787.63	-1,132.34	1,379.39	1,377.91	1.48	934.677		
400.00	400.00	375.96	375.95	1.21	0.98	-55.18	788.06	-1,133.23	1,380.38	1,378.19	2.19	631.272		
500.00	500.00	482.03	482.02	1.57	1.36	-55.19	788.43	-1,134.01	1,381.18	1,378.25	2.93	472.172		
600.00	599.98	561.68	561.67	1.92	1.64	-120.56	788.74	-1,134.67	1,383.05	1,379.49	3.57	387.935		
700.00	699.84	615.30	615.25	2.28	1.84	-120.54	789.86	-1,136.12	1,389.27	1,385.16	4.11	337.728		
800.00	799.45	654.00	653.85	2.64	1.98	-120.43	791.93	-1,137.96	1,401.01	1,396.40	4.61	303.829		
900.00	898.70	724.91	724.34	3.02	2.24	-120.33	798.23	-1,142.29	1,417.43	1,412.20	5.23	271.053		
1,000.00	997.47	796.85	795.56	3.41	2.51	-120.19	806.97	-1,147.36	1,438.00	1,432.13	5.87	245.181		
1,100.00	1,095.62	877.11	874.85	3.84	2.82	-120.09	817.64	-1,153.72	1,461.69	1,455.14	6.55	223.235		
1,200.00	1,193.06	960.95	957.55	4.29	3.17	-120.04	829.53	-1,160.77	1,488.05	1,480.78	7.27	204.704		
1,300.00	1,289.64	1,063.29	1,058.38	4.78	3.59	-120.13	844.72	-1,169.50	1,516.66	1,508.57	8.10	187.301		
1,400.00	1,385.27	1,168.09	1,161.69	5.32	4.04	-120.27	860.77	-1,176.73	1,546.00	1,537.03	8.97	172.336		
1,500.00	1,479.82	1,264.33	1,256.63	5.90	4.45	-120.44	874.98	-1,183.44	1,577.01	1,567.17	9.84	160.194		
1,600.00	1,573.17	1,353.46	1,344.62	6.53	4.83	-120.61	887.68	-1,189.88	1,609.91	1,599.19	10.72	150.182		
1,700.00	1,665.21	1,493.23	1,482.92	7.23	5.42	-121.34	906.02	-1,198.27	1,643.19	1,631.33	11.86	138.561		
1,800.00	1,755.84	1,581.46	1,570.33	7.98	5.78	-121.63	917.21	-1,202.60	1,677.61	1,664.81	12.80	131.031		
1,900.00	1,844.94	1,664.26	1,652.38	8.80	6.13	-121.88	927.40	-1,206.98	1,714.34	1,700.58	13.76	124.630		
2,000.00	1,932.39	1,740.00	1,727.49	9.68	6.44	-122.11	935.81	-1,211.94	1,753.79	1,739.09	14.70	119.286		
2,100.00	2,018.11	1,818.76	1,805.61	10.63	6.76	-122.40	943.82	-1,217.88	1,795.97	1,780.29	15.69	114.478		
2,200.00	2,101.97	1,922.47	1,908.51	11.65	7.19	-123.02	954.86	-1,224.71	1,839.96	1,823.13	16.83	109.340		
2,300.00	2,183.88	1,997.99	1,983.40	12.74	7.50	-123.23	963.46	-1,229.25	1,886.21	1,868.35	17.86	105.602		
2,400.00	2,263.74	2,103.95	2,088.51	13.90	7.94	-123.86	975.68	-1,234.65	1,934.21	1,915.13	19.08	101.386		
2,431.61	2,288.54	2,128.66	2,113.03	14.29	8.04	-123.93	978.56	-1,235.75	1,949.76	1,930.34	19.42	100.381		
2,500.00	2,341.97	2,180.46	2,164.42	15.13	8.25	-124.68	984.68	-1,238.04	1,983.86	1,963.70	20.16	98.403		
2,600.00	2,420.08	2,249.06	2,232.45	16.37	8.53	-125.65	992.93	-1,241.23	2,034.54	2,013.35	21.19	95.999		
2,700.00	2,498.20	2,325.19	2,307.94	17.63	8.85	-126.70	1,001.92	-1,245.07	2,086.10	2,063.85	22.25	93.742		
2,800.00	2,576.32	2,399.95	2,382.13	18.89	9.15	-127.70	1,010.22	-1,249.08	2,138.34	2,115.04	23.29	91.810		
2,900.00	2,654.43	2,483.40	2,464.94	20.17	9.49	-128.77	1,019.51	-1,253.53	2,191.15	2,166.78	24.37	89.930		
3,000.00	2,732.55	2,569.44	2,550.30	21.45	9.85	-129.81	1,029.48	-1,257.66	2,244.20	2,218.75	25.45	88.193		
3,100.00	2,810.67	2,654.78	2,635.03	22.74	10.19	-130.81	1,038.92	-1,261.57	2,297.47	2,270.96	26.51	86.665		
3,200.00	2,888.78	2,741.07	2,720.73	24.03	10.54	-131.78	1,048.23	-1,265.30	2,350.96	2,323.40	27.57	85.282		
3,300.00	2,966.90	2,823.70	2,802.75	25.33	10.88	-132.65	1,057.72	-1,268.45	2,404.64	2,376.05	28.60	84.086		
3,400.00	3,045.02	2,908.64	2,887.09	26.63	11.22	-133.52	1,067.31	-1,271.59	2,458.60	2,428.97	29.63	82.978		
3,500.00	3,123.13	2,977.58	2,955.62	27.94	11.49	-134.21	1,074.40	-1,274.18	2,512.82	2,482.27	30.55	82.254		
3,600.00	3,201.25	3,037.00	3,014.66	29.24	11.73	-134.80	1,080.51	-1,276.98	2,568.08	2,536.69	31.40	81.794		
3,700.00	3,279.37	3,077.24	3,054.59	30.55	11.90	-135.18	1,084.87	-1,279.27	2,624.49	2,592.37	32.11	81.727		
3,800.00	3,357.49	3,126.00	3,102.90	31.86	12.10	-135.62	1,090.63	-1,282.52	2,682.13	2,649.26	32.87	81.603		
3,900.00	3,435.60	3,195.85	3,172.03	33.18	12.40	-136.23	1,099.27	-1,287.55	2,740.58	2,706.82	33.76	81.183		
4,000.00	3,513.72	3,294.00	3,269.24	34.49	12.81	-137.06	1,110.91	-1,294.43	2,799.10	2,764.27	34.83	80.368		
4,100.00	3,591.84	3,392.84	3,367.34	35.81	13.21	-137.89	1,121.29	-1,300.72	2,857.20	2,821.31	35.88	79.627		
4,200.00	3,669.95	3,512.12	3,485.87	37.12	13.69	-138.85	1,133.25	-1,306.72	2,914.37	2,877.31	37.06	78.644		
4,300.00	3,748.07	3,571.00	3,544.34	38.44	13.93	-139.29	1,139.60	-1,309.46	2,971.72	2,933.88	37.84	78.537		
4,400.00	3,826.19	3,632.13	3,604.98	39.76	14.18	-139.73	1,146.65	-1,312.60	3,029.74	2,991.11	38.63	78.425		
4,500.00	3,904.30	3,694.12	3,666.40	41.08	14.44	-140.15	1,154.14	-1,316.20	3,088.49	3,049.06	39.43	78.337		
4,600.00	3,982.42	3,773.54	3,745.14	42.40	14.77	-140.69	1,163.38	-1,321.07	3,147.65	3,107.32	40.33	78.043		
4,700.00	4,060.54	3,873.90	3,844.81	43.72	15.18	-141.37	1,173.70	-1,326.69	3,206.43	3,165.07	41.37	77.515		
4,800.00	4,138.66	3,945.98	3,916.42	45.05	15.47	-141.84	1,180.91	-1,330.62	3,265.30	3,223.10	42.20	77.384		
4,900.00	4,216.77	4,009.93	3,979.90	46.37	15.73	-142.24	1,187.64	-1,334.27	3,324.58	3,281.61	42.97	77.372		
5,000.00	4,294.89	4,153.69	4,122.91	47.69	16.29	-143.15	1,200.50	-1,341.20	3,383.07	3,338.81	44.26	76.432		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,223.91	4,192.87	49.02	16.56	-143.59	1,205.77	-1,344.15	3,441.33	3,396.29	45.05	76.397		
5,200.00	4,451.12	4,283.00	4,251.67	50.34	16.79	-143.95	1,210.91	-1,346.86	3,500.13	3,454.37	45.76	76.495		
5,300.00	4,529.24	4,340.00	4,308.35	51.67	17.02	-144.27	1,216.30	-1,349.76	3,559.50	3,513.04	46.45	76.624		
5,400.00	4,607.36	4,403.39	4,371.35	52.99	17.27	-144.62	1,222.37	-1,353.30	3,619.40	3,572.21	47.19	76.695		
5,500.00	4,685.47	4,474.77	4,442.25	54.32	17.56	-144.99	1,229.47	-1,357.43	3,679.60	3,631.62	47.99	76.680		
5,600.00	4,763.59	4,538.92	4,505.95	55.64	17.82	-145.32	1,236.02	-1,361.28	3,740.11	3,691.38	48.73	76.757		
5,700.00	4,841.71	4,604.08	4,570.64	56.97	18.09	-145.64	1,242.68	-1,365.42	3,801.00	3,751.53	49.47	76.833		
5,800.00	4,919.83	4,688.62	4,654.51	58.30	18.44	-146.05	1,251.69	-1,370.94	3,862.16	3,811.80	50.36	76.688		
5,900.00	4,997.94	5,900.00	4,790.76	59.62	23.50	-146.63	1,268.57	-1,378.03	3,922.22	3,866.13	56.09	69.922		
6,000.00	5,076.06	4,922.13	4,888.83	60.95	19.41	-147.00	1,281.49	-1,382.04	3,981.75	3,929.06	52.69	75.570		
6,100.00	5,154.18	4,977.21	4,940.34	62.28	19.65	-147.21	1,289.03	-1,384.48	4,041.61	3,988.23	53.38	75.709		
6,200.00	5,232.29	5,045.43	5,007.78	63.61	19.94	-147.45	1,298.75	-1,387.91	4,101.99	4,047.81	54.18	75.709		
6,300.00	5,310.41	5,150.57	5,111.95	64.93	20.38	-147.84	1,312.10	-1,392.76	4,162.08	4,106.83	55.25	75.332		
6,400.00	5,388.53	5,234.11	5,194.90	66.26	20.72	-148.16	1,321.29	-1,396.34	4,221.99	4,165.86	56.13	75.219		
6,500.00	5,466.64	5,313.23	5,273.47	67.59	21.04	-148.45	1,329.96	-1,399.71	4,281.95	4,224.98	56.97	75.159		
6,600.00	5,544.76	5,390.47	5,350.16	68.92	21.35	-148.73	1,338.59	-1,402.95	4,341.93	4,284.13	57.80	75.118		
6,700.00	5,622.88	5,452.63	5,411.81	70.25	21.61	-148.95	1,346.00	-1,405.70	4,402.17	4,343.65	58.52	75.224		
6,800.00	5,701.00	5,505.06	5,463.76	71.58	21.82	-149.12	1,352.60	-1,408.25	4,462.82	4,403.65	59.17	75.427		
6,900.00	5,779.11	5,558.10	5,516.29	72.91	22.05	-149.28	1,359.41	-1,411.17	4,524.00	4,464.18	59.82	75.632		
7,000.00	5,857.23	5,655.02	5,612.33	74.23	22.45	-149.59	1,371.25	-1,416.51	4,585.25	4,524.44	60.81	75.402		
7,100.00	5,935.35	5,718.02	5,674.85	75.56	22.71	-149.80	1,378.24	-1,419.98	4,646.55	4,585.03	61.52	75.530		
7,200.00	6,013.46	5,759.73	5,716.24	76.89	22.88	-149.93	1,382.69	-1,422.42	4,708.25	4,646.19	62.06	75.870		
7,300.00	6,091.58	5,795.02	5,751.22	78.22	23.03	-150.04	1,386.74	-1,424.82	4,770.66	4,708.12	62.54	76.282		
7,400.00	6,169.70	5,843.98	5,799.66	79.55	23.24	-150.18	1,392.74	-1,428.58	4,833.74	4,770.61	63.13	76.562		
7,500.00	6,247.81	5,951.81	5,906.36	80.88	23.70	-150.49	1,406.01	-1,436.79	4,896.91	4,832.68	64.22	76.248		
7,600.00	6,325.93	6,054.70	6,008.41	82.21	24.12	-150.80	1,417.19	-1,443.68	4,959.36	4,894.11	65.25	76.008		
7,700.00	6,404.05	6,116.26	6,069.49	83.54	24.38	-150.98	1,423.63	-1,447.77	5,021.88	4,955.95	65.93	76.169		
7,800.00	6,482.17	6,176.00	6,128.75	84.87	24.62	-151.15	1,429.91	-1,452.05	5,084.82	5,018.22	66.60	76.351		
7,900.00	6,560.28	6,222.04	6,174.38	86.20	24.82	-151.28	1,434.86	-1,455.56	5,148.13	5,080.97	67.15	76.662		
8,000.00	6,638.40	6,293.13	6,244.81	87.53	25.11	-151.47	1,442.75	-1,461.23	5,211.77	5,143.85	67.92	76.736		
8,100.00	6,716.52	6,432.58	6,383.12	88.86	25.69	-151.85	1,457.36	-1,471.40	5,274.98	5,205.74	69.24	76.189		
8,200.00	6,794.63	6,645.56	6,594.58	90.20	26.55	-152.40	1,479.76	-1,483.02	5,336.90	5,265.77	71.12	75.037		
8,300.00	6,872.75	6,718.36	6,667.02	91.53	26.84	-152.59	1,486.39	-1,485.98	5,397.74	5,325.86	71.88	75.094		
8,400.00	6,950.87	6,777.24	6,725.65	92.86	27.07	-152.75	1,491.24	-1,488.49	5,458.81	5,386.29	72.52	75.274		
8,500.00	7,028.98	6,837.72	6,785.86	94.19	27.30	-152.91	1,496.13	-1,491.26	5,520.18	5,447.01	73.17	75.446		
8,600.00	7,107.10	6,905.38	6,853.22	95.52	27.56	-153.09	1,501.58	-1,494.54	5,581.81	5,507.94	73.87	75.565		
8,647.91	7,144.53	6,952.70	6,900.37	96.16	27.74	-153.22	1,504.93	-1,496.79	5,611.34	5,537.03	74.31	75.514		
8,650.00	7,146.16	6,954.76	6,902.43	96.18	27.75	-153.64	1,505.06	-1,496.88	5,612.62	5,538.30	74.33	75.512		
8,700.00	7,185.66	6,999.28	6,946.82	96.84	27.91	-163.83	1,507.70	-1,498.88	5,643.56	5,568.83	74.73	75.515		
8,750.00	7,225.78	7,039.61	6,987.06	97.47	28.06	-174.44	1,509.82	-1,500.66	5,674.64	5,599.56	75.09	75.576		
8,800.00	7,266.21	7,077.84	7,025.21	98.08	28.19	174.78	1,511.58	-1,502.32	5,705.65	5,630.25	75.40	75.677		
8,850.00	7,306.63	7,110.80	7,058.13	98.64	28.30	164.13	1,512.53	-1,503.74	5,736.37	5,660.74	75.63	75.845		
8,900.00	7,346.75	7,143.65	7,090.95	99.17	28.41	153.88	1,512.79	-1,505.14	5,766.60	5,690.76	75.84	76.035		
8,950.00	7,386.25	7,157.00	7,104.28	99.64	28.46	144.20	1,512.70	-1,505.71	5,796.17	5,720.27	75.90	76.365		
9,000.00	7,424.84	7,157.00	7,104.28	100.06	28.46	135.23	1,512.70	-1,505.71	5,825.01	5,749.16	75.85	76.792		
9,050.00	7,462.22	7,157.00	7,104.28	100.42	28.46	127.11	1,512.70	-1,505.71	5,852.95	5,777.16	75.79	77.225		
9,100.00	7,498.11	7,157.00	7,104.28	100.74	28.46	119.85	1,512.70	-1,505.71	5,879.78	5,804.07	75.71	77.659		
9,150.00	7,532.24	7,191.60	7,138.81	100.99	28.55	113.70	1,511.43	-1,507.51	5,904.83	5,829.01	75.82	77.878		
9,200.00	7,564.34	7,198.44	7,145.62	101.19	28.57	108.17	1,510.97	-1,507.95	5,928.69	5,852.93	75.77	78.248		
9,250.00	7,594.17	7,204.97	7,152.11	101.34	28.59	103.38	1,510.47	-1,508.39	5,950.90	5,875.19	75.71	78.599		
9,300.00	7,621.50	7,211.15	7,158.25	101.45	28.61	99.27	1,509.93	-1,508.83	5,971.31	5,895.65	75.66	78.924		
9,350.00	7,646.13	7,246.00	7,192.74	101.50	28.70	96.02	1,505.84	-1,511.71	5,990.12	5,914.36	75.76	79.069		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 184-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,246.00	7,192.74	101.51	28.70	93.05	1,505.84	-1,511.71	6,006.44	5,930.74	75.70	79.348		
9,450.00	7,686.55	7,246.00	7,192.74	101.48	28.70	90.59	1,505.84	-1,511.71	6,020.65	5,945.00	75.65	79.581		
9,500.00	7,702.04	7,246.00	7,192.74	101.42	28.70	88.62	1,505.84	-1,511.71	6,032.65	5,957.02	75.63	79.762		
9,550.00	7,714.20	7,246.00	7,192.74	101.33	28.70	87.09	1,505.84	-1,511.71	6,042.36	5,966.72	75.64	79.886		
9,600.00	7,722.96	7,246.00	7,192.74	101.20	28.70	85.99	1,505.84	-1,511.71	6,049.72	5,974.05	75.67	79.949		
9,650.00	7,728.24	7,246.00	7,192.74	101.06	28.70	85.30	1,505.84	-1,511.71	6,054.69	5,978.96	75.73	79.948		
9,699.97	7,730.00	7,246.00	7,192.74	100.90	28.70	85.00	1,505.84	-1,511.71	6,057.23	5,981.40	75.83	79.881		
9,800.00	7,730.00	7,246.00	7,192.74	100.56	28.70	85.00	1,505.84	-1,511.71	6,060.69	5,984.62	76.07	79.676		
9,900.00	7,730.00	7,246.00	7,192.74	100.24	28.70	85.00	1,505.84	-1,511.71	6,065.80	5,989.47	76.33	79.467		
10,000.00	7,730.00	7,246.00	7,192.74	99.93	28.70	85.00	1,505.84	-1,511.71	6,072.55	5,995.93	76.62	79.254		
10,100.00	7,730.00	8,261.82	7,903.98	99.64	29.22	91.73	881.24	-1,556.90	6,078.34	6,002.76	75.57	80.430		
10,200.00	7,730.00	8,315.00	7,913.84	99.36	29.30	91.83	828.99	-1,556.49	6,077.73	6,001.95	75.78	80.203		
10,300.00	7,730.00	8,435.29	7,925.82	99.09	29.62	91.94	709.37	-1,555.84	6,077.16	6,001.30	75.85	80.116		
10,400.00	7,730.00	8,640.99	7,928.77	98.84	30.56	91.97	503.74	-1,553.01	6,075.30	5,999.27	76.02	79.916		
10,500.00	7,730.00	8,671.00	7,928.59	98.61	30.73	91.97	473.74	-1,552.50	6,073.44	5,996.91	76.53	79.361		
10,600.00	7,730.00	8,707.01	7,928.17	98.39	30.96	91.96	437.73	-1,552.29	6,072.66	5,995.57	77.10	78.768		
10,611.56	7,730.00	8,710.06	7,928.13	98.36	30.98	91.96	434.68	-1,552.30	6,072.65	5,995.49	77.17	78.696		
10,700.00	7,730.00	8,760.00	7,927.22	98.18	31.29	91.96	384.76	-1,553.07	6,073.35	5,995.64	77.71	78.156		
10,800.00	7,730.00	8,760.00	7,927.22	97.99	31.29	91.96	384.76	-1,553.07	6,074.81	5,996.50	78.31	77.577		
10,900.00	7,730.00	8,794.51	7,926.71	97.81	31.54	91.95	350.27	-1,554.18	6,077.63	5,998.64	78.99	76.945		
11,000.00	7,730.00	8,849.00	7,926.88	97.64	31.92	91.95	295.84	-1,556.65	6,081.61	6,001.87	79.74	76.267		
11,100.00	7,730.00	9,188.83	7,939.94	97.50	34.89	92.07	-43.61	-1,562.69	6,081.85	5,999.88	81.97	74.197		
11,200.00	7,730.00	9,335.85	7,942.38	97.36	36.39	92.10	-190.61	-1,562.85	6,081.69	5,998.00	83.70	72.664		
11,300.00	7,730.00	9,463.82	7,944.65	97.24	37.79	92.12	-318.56	-1,562.03	6,080.76	5,995.28	85.48	71.137		
11,400.00	7,730.00	9,583.93	7,946.73	97.14	39.18	92.14	-438.64	-1,560.85	6,079.50	5,992.15	87.36	69.594		
11,500.00	7,730.00	9,726.41	7,947.99	97.06	40.91	92.15	-581.11	-1,559.02	6,077.98	5,988.38	89.60	67.831		
11,600.00	7,730.00	9,775.00	7,948.03	96.98	41.52	92.15	-629.69	-1,558.28	6,076.22	5,985.27	90.95	66.809		
11,700.00	7,730.00	9,829.00	7,948.24	96.93	42.20	92.15	-683.69	-1,558.19	6,075.55	5,983.16	92.39	65.763		
11,729.94	7,730.00	9,829.00	7,948.24	96.92	42.20	92.15	-683.69	-1,558.19	6,075.48	5,982.83	92.64	65.580		
11,800.00	7,730.00	9,877.57	7,948.66	96.90	42.82	92.16	-732.26	-1,558.48	6,075.66	5,981.86	93.80	64.773		
11,900.00	7,730.00	9,973.55	7,949.98	96.88	44.08	92.17	-828.23	-1,559.16	6,076.08	5,980.25	95.83	63.406		
12,000.00	7,730.00	10,106.42	7,950.57	96.88	45.85	92.17	-961.09	-1,559.87	6,076.31	5,977.90	98.41	61.745		
12,006.18	7,730.00	10,115.54	7,950.56	96.88	45.98	92.17	-970.21	-1,559.88	6,076.30	5,977.71	98.59	61.635		
12,100.00	7,730.00	10,181.83	7,949.73	96.90	46.89	92.17	-1,036.50	-1,560.25	6,076.43	5,976.11	100.31	60.574		
12,200.00	7,730.00	10,255.22	7,948.80	96.94	47.91	92.16	-1,109.88	-1,560.90	6,076.93	5,974.70	102.23	59.444		
12,300.00	7,730.00	10,367.50	7,948.81	97.00	49.49	92.16	-1,222.15	-1,562.07	6,077.63	5,972.88	104.76	58.016		
12,400.00	7,730.00	10,495.82	7,947.93	97.08	51.33	92.15	-1,350.46	-1,562.89	6,077.91	5,970.30	107.61	56.482		
12,500.00	7,730.00	10,612.26	7,947.32	97.18	53.03	92.14	-1,466.90	-1,563.19	6,077.80	5,967.45	110.36	55.075		
12,600.00	7,730.00	12,600.00	7,950.03	97.31	82.96	92.17	-1,640.82	-1,562.18	6,076.91	5,935.43	141.49	42.951		
12,700.00	7,730.00	10,870.97	7,951.86	97.46	56.91	92.19	-1,725.55	-1,561.09	6,075.41	5,958.88	116.53	52.136		
12,800.00	7,730.00	10,989.73	7,951.99	97.64	58.72	92.19	-1,844.30	-1,560.16	6,074.33	5,954.80	119.53	50.819		
12,900.00	7,730.00	11,113.57	7,950.81	97.85	60.63	92.18	-1,968.12	-1,558.12	6,072.24	5,949.56	122.67	49.499		
13,000.00	7,730.00	13,000.00	7,952.76	98.09	90.18	92.20	-2,102.67	-1,555.70	6,070.19	5,916.63	153.56	39.529		
13,100.00	7,730.00	11,312.14	7,954.26	98.35	63.73	92.21	-2,166.60	-1,554.07	6,067.62	5,939.38	128.25	47.312		
13,200.00	7,730.00	11,348.25	7,954.92	98.65	64.30	92.22	-2,202.70	-1,553.72	6,066.32	5,936.42	129.90	46.701		
13,300.00	7,730.00	13,300.00	7,956.53	98.98	95.34	92.24	-2,372.69	-1,551.61	6,064.67	5,902.21	162.46	37.331		
13,400.00	7,730.00	11,586.44	7,957.64	99.34	68.09	92.25	-2,440.85	-1,550.46	6,062.79	5,926.40	136.39	44.452		
13,500.00	7,730.00	11,691.89	7,960.00	99.74	69.78	92.27	-2,546.26	-1,549.38	6,061.53	5,922.10	139.43	43.473		
13,600.00	7,730.00	11,851.84	7,959.20	100.17	72.36	92.26	-2,706.18	-1,546.40	6,059.19	5,915.61	143.57	42.203		
13,700.00	7,730.00	11,918.64	7,957.15	100.65	73.44	92.24	-2,772.94	-1,545.14	6,056.88	5,910.98	145.90	41.514		
13,800.00	7,730.00	11,968.00	7,955.32	101.16	74.24	92.23	-2,822.25	-1,544.57	6,055.29	5,907.41	147.88	40.948		
13,899.68	7,730.00	11,999.26	7,954.14	101.71	74.75	92.22	-2,853.49	-1,544.52	6,054.69	5,905.21	149.49	40.503		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	11,999.35	7,954.14	101.71	74.75	92.22	-2,853.58	-1,544.52	6,054.69	5,905.20	149.49	40.502		
14,000.00	7,730.00	12,057.00	7,952.25	102.30	75.69	92.20	-2,911.19	-1,545.48	6,055.54	5,903.91	151.63	39.935		
14,100.00	7,730.00	12,057.00	7,952.25	102.93	75.69	92.20	-2,911.19	-1,545.48	6,057.07	5,904.48	152.59	39.695		
14,200.00	7,730.00	12,125.21	7,950.21	103.60	76.80	92.18	-2,979.33	-1,547.59	6,059.71	5,904.76	154.94	39.109		
14,300.00	7,730.00	12,187.86	7,948.53	104.32	77.81	92.16	-3,041.92	-1,549.85	6,062.87	5,905.69	157.19	38.572		
14,400.00	7,730.00	12,359.87	7,946.07	105.07	80.62	92.14	-3,213.81	-1,555.84	6,066.10	5,904.33	161.77	37.499		
14,500.00	7,730.00	14,500.00	7,950.48	105.86	116.08	92.18	-3,436.78	-1,559.57	6,067.65	5,868.35	199.30	30.445		
14,600.00	7,730.00	12,641.11	7,953.14	106.70	85.26	92.20	-3,494.87	-1,559.80	6,068.04	5,898.29	169.75	35.747		
14,700.00	7,730.00	12,680.00	7,955.27	107.57	85.91	92.22	-3,533.70	-1,560.45	6,069.55	5,897.99	171.56	35.379		
14,800.00	7,730.00	12,729.51	7,957.56	108.48	86.73	92.24	-3,583.14	-1,561.76	6,071.98	5,898.39	173.59	34.979		
14,900.00	7,730.00	12,806.31	7,958.99	109.43	88.00	92.26	-3,659.88	-1,564.40	6,075.12	5,898.89	176.22	34.474		
15,000.00	7,730.00	12,920.32	7,958.65	110.42	89.89	92.25	-3,773.82	-1,568.23	6,078.12	5,898.43	179.69	33.826		
15,100.00	7,730.00	13,062.51	7,956.66	111.43	92.26	92.23	-3,915.93	-1,572.53	6,080.75	5,896.95	183.80	33.084		
15,200.00	7,730.00	13,255.77	7,952.54	112.49	95.49	92.19	-4,109.09	-1,576.14	6,082.14	5,893.07	189.08	32.168		
15,300.00	7,730.00	13,317.83	7,953.02	113.57	96.53	92.20	-4,171.15	-1,576.97	6,083.18	5,891.75	191.44	31.777		
15,400.00	7,730.00	13,588.44	7,956.17	114.68	101.10	92.22	-4,441.71	-1,578.55	6,084.04	5,885.52	198.52	30.647		
15,500.00	7,730.00	13,697.88	7,959.92	115.82	102.95	92.26	-4,551.07	-1,577.08	6,082.49	5,880.48	202.01	30.110		
15,600.00	7,730.00	15,600.00	7,966.32	116.99	135.44	92.32	-4,768.27	-1,572.28	6,080.23	5,843.48	236.75	25.682		
15,700.00	7,730.00	13,970.50	7,967.11	118.19	107.60	92.33	-4,823.49	-1,570.38	6,076.75	5,866.53	210.22	28.906		
15,800.00	7,730.00	14,017.00	7,968.03	119.41	108.39	92.34	-4,869.97	-1,569.70	6,074.70	5,862.39	212.31	28.612		
15,900.00	7,730.00	14,017.00	7,968.03	120.65	108.39	92.34	-4,869.97	-1,569.70	6,073.61	5,860.30	213.31	28.473		
15,959.55	7,730.00	14,060.33	7,969.05	121.40	109.13	92.35	-4,913.29	-1,569.68	6,073.46	5,858.56	214.90	28.262		
16,000.00	7,730.00	14,082.23	7,969.57	121.91	109.50	92.36	-4,935.18	-1,569.76	6,073.52	5,857.72	215.80	28.144		
16,100.00	7,730.00	14,149.31	7,971.13	123.20	110.65	92.37	-5,002.24	-1,570.36	6,074.14	5,855.82	218.33	27.821		
16,200.00	7,730.00	14,233.63	7,972.63	124.50	112.08	92.38	-5,086.53	-1,571.44	6,075.16	5,853.90	221.26	27.457		
16,300.00	7,730.00	14,316.25	7,973.05	125.82	113.49	92.39	-5,169.15	-1,572.69	6,076.35	5,852.21	224.15	27.109		
16,400.00	7,730.00	14,490.76	7,976.77	127.16	116.46	92.42	-5,343.59	-1,574.99	6,077.64	5,848.41	229.23	26.514		
16,500.00	7,730.00	16,500.00	7,980.12	128.52	150.90	92.45	-5,481.41	-1,575.03	6,077.41	5,811.88	265.53	22.888		
16,585.35	7,730.00	14,670.56	7,980.65	129.69	119.54	92.46	-5,523.34	-1,574.99	6,077.21	5,841.94	235.27	25.831		
16,600.00	7,730.00	14,674.83	7,980.71	129.89	119.62	92.46	-5,527.61	-1,575.01	6,077.26	5,841.75	235.51	25.805		
16,700.00	7,730.00	14,730.00	7,981.85	131.27	120.56	92.47	-5,582.76	-1,576.00	6,078.46	5,840.69	237.77	25.564		
16,800.00	7,730.00	14,730.00	7,981.85	132.67	120.56	92.47	-5,582.76	-1,576.00	6,080.45	5,841.78	238.67	25.476		
16,900.00	7,730.00	15,052.31	7,989.71	134.09	126.09	92.54	-5,904.88	-1,577.81	6,079.32	5,831.94	247.38	24.575		
17,000.00	7,730.00	15,169.81	7,991.03	135.51	128.11	92.56	-6,022.37	-1,577.40	6,078.75	5,827.60	251.16	24.203		
17,100.00	7,730.00	15,264.00	7,993.18	136.95	129.74	92.58	-6,116.52	-1,576.01	6,077.08	5,822.69	254.39	23.889		
17,200.00	7,730.00	15,308.33	7,993.77	138.40	130.50	92.58	-6,160.85	-1,575.60	6,076.22	5,819.80	256.42	23.696		
17,300.00	7,730.00	15,607.76	7,998.37	139.85	135.67	92.63	-6,460.15	-1,572.49	6,075.81	5,811.30	264.51	22.970		
17,400.00	7,730.00	15,685.36	8,000.08	141.32	137.02	92.64	-6,537.69	-1,570.18	6,072.60	5,805.22	267.38	22.711		
17,500.00	7,730.00	15,778.39	8,002.36	142.80	138.63	92.67	-6,630.66	-1,567.66	6,069.67	5,799.05	270.62	22.429		
17,600.00	7,730.00	15,856.01	8,005.90	144.28	139.98	92.70	-6,708.17	-1,565.60	6,066.90	5,793.41	273.49	22.183		
17,700.00	7,730.00	16,025.63	8,012.43	145.78	142.93	92.77	-6,877.59	-1,560.69	6,063.90	5,785.36	278.53	21.771		
17,800.00	7,730.00	16,092.15	8,014.16	147.28	144.09	92.78	-6,944.05	-1,558.41	6,060.34	5,779.17	281.16	21.555		
17,900.00	7,730.00	16,155.00	8,016.36	148.79	145.18	92.81	-7,006.84	-1,557.04	6,057.81	5,774.11	283.70	21.353		
18,000.00	7,730.00	16,176.49	8,017.25	150.31	145.55	92.81	-7,028.31	-1,556.76	6,056.03	5,770.81	285.23	21.232		
18,100.00	7,730.00	16,244.00	8,019.88	151.83	146.72	92.84	-7,095.77	-1,556.38	6,055.24	5,767.39	287.84	21.037		
18,200.00	7,730.00	16,395.74	8,024.61	153.37	149.36	92.88	-7,247.42	-1,554.86	6,054.02	5,761.51	292.51	20.697		
18,300.00	7,730.00	16,490.12	8,025.89	154.90	151.00	92.90	-7,341.79	-1,553.70	6,052.52	5,756.74	295.79	20.462		
18,400.00	7,730.00	16,573.30	8,025.87	156.45	152.45	92.90	-7,424.97	-1,552.87	6,051.19	5,752.40	298.79	20.252		
18,500.00	7,730.00	16,627.78	8,025.35	158.00	153.39	92.89	-7,479.45	-1,552.57	6,050.31	5,749.23	301.09	20.095		
18,543.46	7,730.00	16,645.61	8,025.31	158.67	153.70	92.89	-7,497.27	-1,552.59	6,050.22	5,748.28	301.94	20.038		
18,600.00	7,730.00	16,690.00	8,025.59	159.55	154.47	92.90	-7,541.66	-1,552.96	6,050.47	5,746.90	303.56	19.931		
18,700.00	7,730.00	16,716.47	8,025.92	161.11	154.93	92.90	-7,568.12	-1,553.36	6,051.39	5,746.27	305.12	19.833		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 184-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,800.00	7,730.00	18,800.00	8,027.32	162.68	191.01	92.91	-7,670.14	-1,555.34	6,053.06	5,710.19	342.87	17.654 SF	
18,900.00	7,730.00	16,957.92	8,030.96	164.25	159.11	92.94	-7,809.48	-1,556.87	6,053.88	5,740.88	313.00	19.342	
19,000.00	7,730.00	17,118.99	8,035.65	165.83	161.91	92.99	-7,970.48	-1,557.33	6,053.90	5,735.95	317.95	19.040	
19,100.00	7,730.00	17,214.68	8,036.70	167.41	163.58	93.00	-8,066.16	-1,557.34	6,053.64	5,732.37	321.27	18.843	
19,138.90	7,730.00	17,241.21	8,036.87	168.02	164.04	93.00	-8,092.69	-1,557.39	6,053.59	5,731.30	322.29	18.783	
19,200.00	7,730.00	17,277.78	8,036.92	168.99	164.67	93.00	-8,129.26	-1,557.58	6,053.71	5,729.94	323.77	18.698	
19,300.00	7,730.00	17,407.95	8,035.35	170.58	166.93	92.99	-8,259.41	-1,558.65	6,054.21	5,726.26	327.95	18.461	
19,400.00	7,730.00	17,525.94	8,032.02	172.17	168.98	92.95	-8,377.36	-1,558.89	6,053.92	5,722.10	331.82	18.245	
19,430.54	7,730.00	17,546.00	8,031.39	172.66	169.33	92.95	-8,397.41	-1,558.91	6,053.81	5,721.20	332.61	18.201	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.92	787.25	-1,120.81	1,369.71					
100.00	100.00	97.15	97.15	0.13	0.15	-54.92	787.06	-1,120.64	1,369.43	1,369.15	0.28	4,880.969		
200.00	200.00	197.64	197.64	0.49	0.42	-54.92	786.58	-1,120.18	1,368.79	1,367.88	0.91	1,504.744		
300.00	300.00	293.23	293.23	0.85	0.76	-54.93	786.30	-1,119.92	1,368.39	1,366.78	1.61	849.592		
400.00	400.00	393.35	393.35	1.21	1.12	-54.93	786.18	-1,119.76	1,368.19	1,365.87	2.33	588.080		
500.00	500.00	495.05	495.05	1.57	1.48	-54.92	786.10	-1,119.43	1,367.88	1,364.84	3.05	448.830		
522.57	522.57	518.01	518.00	1.65	1.56	-120.28	786.09	-1,119.33	1,367.84	1,364.63	3.21	426.197	CC, ES	
600.00	599.98	569.38	569.38	1.92	1.74	-120.29	786.40	-1,119.47	1,369.11	1,365.45	3.66	374.177		
700.00	699.84	635.84	635.79	2.28	1.96	-120.28	788.17	-1,120.43	1,374.47	1,370.24	4.24	324.398		
800.00	799.45	700.36	700.18	2.64	2.18	-120.21	792.23	-1,121.64	1,384.04	1,379.22	4.82	287.434		
900.00	898.70	763.00	762.50	3.02	2.40	-120.08	798.22	-1,123.44	1,397.98	1,392.58	5.40	259.028		
1,000.00	997.47	846.05	844.92	3.41	2.70	-119.97	808.03	-1,126.43	1,415.54	1,409.47	6.07	233.195		
1,100.00	1,095.62	938.45	936.49	3.84	3.05	-119.92	819.94	-1,129.76	1,435.47	1,428.67	6.80	211.037		
1,200.00	1,193.06	1,027.88	1,025.05	4.29	3.40	-119.91	831.95	-1,133.11	1,457.57	1,450.02	7.55	193.048		
1,300.00	1,289.64	1,114.66	1,110.86	4.78	3.75	-119.93	844.35	-1,136.54	1,482.08	1,473.76	8.32	178.164		
1,400.00	1,385.27	1,211.22	1,206.33	5.32	4.14	-120.06	858.18	-1,140.64	1,508.67	1,499.51	9.16	164.716		
1,500.00	1,479.82	1,311.12	1,305.26	5.90	4.54	-120.33	871.29	-1,145.27	1,536.82	1,526.78	10.05	152.953		
1,600.00	1,573.17	1,401.86	1,395.13	6.53	4.91	-120.58	883.21	-1,149.31	1,566.79	1,555.86	10.93	143.300		
1,700.00	1,665.21	1,484.74	1,476.94	7.23	5.26	-120.70	896.13	-1,152.15	1,599.12	1,587.30	11.83	135.202		
1,800.00	1,755.84	1,578.37	1,569.17	7.98	5.66	-120.92	911.95	-1,155.26	1,633.97	1,621.16	12.82	127.480		
1,900.00	1,844.94	1,681.01	1,670.32	8.80	6.11	-121.25	929.24	-1,157.29	1,669.69	1,655.80	13.90	120.163		
2,000.00	1,932.39	1,754.48	1,742.72	9.68	6.43	-121.32	941.66	-1,159.07	1,707.90	1,693.04	14.86	114.895		
2,100.00	2,018.11	1,836.18	1,823.16	10.63	6.79	-121.48	955.65	-1,161.86	1,749.07	1,733.16	15.91	109.930		
2,200.00	2,101.97	1,994.70	1,979.79	11.65	7.46	-122.66	979.71	-1,164.75	1,790.43	1,773.05	17.39	102.985		
2,300.00	2,183.88	2,077.97	2,062.43	12.74	7.80	-123.01	989.90	-1,165.65	1,832.47	1,813.98	18.49	99.102		
2,400.00	2,263.74	2,150.28	2,134.22	13.90	8.09	-123.20	998.56	-1,166.68	1,877.09	1,857.53	19.56	95.943		
2,431.61	2,288.54	2,172.56	2,156.33	14.29	8.18	-123.25	1,001.22	-1,167.09	1,891.79	1,871.89	19.91	95.037		
2,500.00	2,341.97	2,220.39	2,203.81	15.13	8.38	-123.96	1,006.97	-1,168.06	1,924.18	1,903.54	20.64	93.234		
2,600.00	2,420.08	2,295.58	2,278.42	16.37	8.68	-125.02	1,016.15	-1,169.84	1,972.43	1,950.71	21.73	90.781		
2,700.00	2,498.20	2,374.38	2,356.63	17.63	9.00	-126.11	1,025.45	-1,171.82	2,021.37	1,998.55	22.82	88.572		
2,800.00	2,576.32	2,450.39	2,432.15	18.89	9.31	-127.14	1,033.87	-1,174.06	2,071.08	2,047.20	23.88	86.718		
2,900.00	2,654.43	2,530.73	2,511.98	20.17	9.63	-128.18	1,042.62	-1,176.49	2,121.42	2,096.47	24.95	85.019		
3,000.00	2,732.55	2,607.81	2,588.57	21.45	9.94	-129.15	1,050.89	-1,178.82	2,172.32	2,146.33	25.99	83.588		
3,100.00	2,810.67	2,700.51	2,680.75	22.74	10.30	-130.28	1,060.20	-1,181.79	2,223.75	2,196.66	27.09	82.075		
3,200.00	2,888.78	2,841.08	2,820.61	24.03	10.85	-131.89	1,074.14	-1,183.71	2,274.33	2,245.88	28.46	79.926		
3,300.00	2,966.90	2,936.37	2,915.21	25.33	11.23	-132.86	1,085.50	-1,182.55	2,323.72	2,294.13	29.58	78.549		
3,400.00	3,045.02	2,990.40	2,968.77	26.63	11.45	-133.37	1,092.61	-1,181.98	2,373.90	2,343.44	30.47	77.920		
3,500.00	3,123.13	3,053.65	3,031.44	27.94	11.72	-133.95	1,101.15	-1,181.93	2,425.26	2,393.87	31.39	77.262		
3,600.00	3,201.25	3,128.74	3,105.85	29.24	12.03	-134.63	1,111.22	-1,182.28	2,477.37	2,444.99	32.37	76.523		
3,700.00	3,279.37	3,206.71	3,183.14	30.55	12.35	-135.31	1,121.52	-1,182.74	2,529.84	2,496.48	33.36	75.824		
3,800.00	3,357.49	3,311.40	3,286.95	31.86	12.78	-136.19	1,135.01	-1,183.00	2,582.31	2,547.80	34.51	74.818		
3,900.00	3,435.60	3,393.74	3,368.73	33.18	13.11	-136.87	1,144.61	-1,183.00	2,634.65	2,599.15	35.50	74.214		
4,000.00	3,513.72	3,446.33	3,420.99	34.49	13.32	-137.30	1,150.52	-1,183.28	2,687.65	2,651.36	36.29	74.069		
4,100.00	3,591.84	3,482.00	3,456.41	35.81	13.46	-137.59	1,154.62	-1,183.77	2,741.81	2,704.87	36.94	74.216		
4,200.00	3,669.95	3,539.35	3,513.28	37.12	13.70	-138.03	1,161.92	-1,185.14	2,797.08	2,759.34	37.74	74.113		
4,300.00	3,748.07	3,597.13	3,570.39	38.44	13.94	-138.43	1,170.39	-1,187.20	2,853.59	2,815.05	38.54	74.046		
4,400.00	3,826.19	3,702.19	3,674.44	39.76	14.38	-139.17	1,184.49	-1,190.85	2,910.15	2,870.48	39.66	73.376		
4,500.00	3,904.30	3,796.86	3,768.47	41.08	14.77	-139.85	1,195.12	-1,193.58	2,966.16	2,925.48	40.68	72.920		
4,600.00	3,982.42	3,880.34	3,851.38	42.40	15.11	-140.43	1,204.59	-1,195.83	3,022.26	2,980.65	41.61	72.628		
4,700.00	4,060.54	3,964.62	3,934.91	43.72	15.45	-140.96	1,215.61	-1,197.71	3,078.37	3,035.81	42.57	72.318		
4,800.00	4,138.66	4,045.97	4,015.61	45.05	15.79	-141.46	1,225.75	-1,199.55	3,134.62	3,091.13	43.49	72.077		
4,900.00	4,216.77	4,129.44	4,098.64	46.37	16.12	-142.00	1,234.01	-1,201.57	3,190.93	3,146.53	44.39	71.877		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,210.83	4,179.59	47.69	16.44	-142.51	1,242.31	-1,203.44	3,247.35	3,202.07	45.28	71.716		
5,100.00	4,373.01	4,292.00	4,260.18	49.02	16.77	-142.97	1,251.82	-1,205.13	3,303.89	3,257.71	46.18	71.545		
5,200.00	4,451.12	4,356.84	4,324.58	50.34	17.03	-143.34	1,259.23	-1,206.64	3,360.74	3,313.79	46.95	71.575		
5,300.00	4,529.24	4,425.19	4,392.47	51.67	17.31	-143.71	1,266.83	-1,208.49	3,418.03	3,370.28	47.75	71.581		
5,400.00	4,607.36	4,495.45	4,462.10	52.99	17.60	-144.07	1,276.07	-1,210.48	3,475.67	3,427.10	48.57	71.561		
5,500.00	4,685.47	4,592.71	4,558.50	54.32	18.00	-144.54	1,288.62	-1,213.11	3,533.31	3,483.72	49.59	71.247		
5,600.00	4,763.59	4,688.37	4,653.51	55.64	18.39	-145.01	1,299.54	-1,215.34	3,590.69	3,540.11	50.58	70.995		
5,700.00	4,841.71	4,744.63	4,709.26	56.97	18.62	-145.27	1,306.94	-1,216.72	3,648.33	3,597.04	51.29	71.138		
5,800.00	4,919.83	4,827.76	4,791.49	58.30	18.97	-145.61	1,318.98	-1,218.86	3,706.25	3,654.04	52.21	70.985		
5,900.00	4,997.94	4,907.65	4,870.61	59.62	19.31	-145.94	1,329.85	-1,220.83	3,764.14	3,711.04	53.10	70.887		
6,000.00	5,076.06	4,984.69	4,947.03	60.95	19.63	-146.27	1,339.39	-1,222.82	3,822.16	3,768.21	53.95	70.847		
6,100.00	5,154.18	5,067.01	5,028.79	62.28	19.96	-146.63	1,348.81	-1,224.99	3,880.30	3,825.47	54.82	70.777		
6,200.00	5,232.29	5,152.00	5,113.29	63.61	20.30	-147.00	1,357.60	-1,227.12	3,938.39	3,882.69	55.70	70.703		
6,300.00	5,310.41	5,230.11	5,190.92	64.93	20.61	-147.33	1,366.08	-1,229.01	3,996.53	3,939.99	56.53	70.692		
6,400.00	5,388.53	5,305.68	5,265.94	66.26	20.92	-147.62	1,375.02	-1,230.91	4,054.84	3,997.48	57.36	70.696		
6,500.00	5,466.64	5,415.11	5,374.56	67.59	21.36	-148.04	1,388.02	-1,233.37	4,113.05	4,054.61	58.44	70.381		
6,600.00	5,544.76	5,525.14	5,483.62	68.92	21.82	-148.41	1,402.51	-1,234.73	4,170.47	4,110.92	59.54	70.040		
6,700.00	5,622.88	5,609.22	5,567.08	70.25	22.16	-148.70	1,412.67	-1,235.59	4,227.82	4,167.39	60.43	69.961		
6,800.00	5,701.00	5,679.73	5,637.21	71.58	22.44	-148.96	1,419.94	-1,236.29	4,285.22	4,224.02	61.20	70.025		
6,900.00	5,779.11	5,739.00	5,696.10	72.91	22.67	-149.17	1,426.58	-1,237.17	4,343.06	4,281.18	61.88	70.188		
7,000.00	5,857.23	5,824.76	5,781.31	74.23	23.02	-149.46	1,436.22	-1,238.58	4,401.12	4,338.36	62.76	70.125		
7,100.00	5,935.35	5,875.38	5,831.65	75.56	23.22	-149.63	1,441.43	-1,239.50	4,459.39	4,396.03	63.36	70.376		
7,200.00	6,013.46	5,934.28	5,890.24	76.89	23.45	-149.84	1,447.21	-1,240.99	4,518.26	4,454.24	64.03	70.570		
7,300.00	6,091.58	6,045.74	6,000.89	78.22	23.90	-150.18	1,460.42	-1,243.48	4,576.96	4,511.84	65.12	70.288		
7,400.00	6,169.70	6,122.95	6,077.47	79.55	24.22	-150.40	1,470.14	-1,244.91	4,635.41	4,569.47	65.95	70.290		
7,500.00	6,247.81	6,185.00	6,139.12	80.88	24.47	-150.59	1,477.05	-1,246.30	4,694.23	4,627.59	66.64	70.441		
7,600.00	6,325.93	6,267.57	6,221.20	82.21	24.80	-150.84	1,485.73	-1,248.27	4,753.25	4,685.76	67.48	70.435		
7,700.00	6,404.05	6,343.61	6,296.71	83.54	25.11	-151.06	1,494.54	-1,250.01	4,812.23	4,743.93	68.29	70.466		
7,800.00	6,482.17	6,404.79	6,357.36	84.87	25.36	-151.21	1,502.41	-1,251.55	4,871.40	4,802.42	68.99	70.611		
7,900.00	6,560.28	6,452.00	6,404.17	86.20	25.55	-151.33	1,508.41	-1,252.95	4,931.00	4,861.43	69.57	70.879		
8,000.00	6,638.40	6,504.72	6,456.47	87.53	25.77	-151.47	1,514.79	-1,254.80	4,991.09	4,920.90	70.18	71.114		
8,100.00	6,716.52	6,556.04	6,507.42	88.86	25.98	-151.61	1,520.46	-1,256.96	5,051.74	4,980.96	70.78	71.375		
8,200.00	6,794.63	6,633.43	6,584.41	90.20	26.28	-151.84	1,527.59	-1,260.30	5,112.61	5,041.05	71.56	71.446		
8,300.00	6,872.75	6,699.56	6,650.29	91.53	26.53	-152.04	1,532.53	-1,263.19	5,173.63	5,101.40	72.23	71.630		
8,400.00	6,950.87	6,782.88	6,733.38	92.86	26.83	-152.31	1,537.59	-1,266.85	5,234.78	5,161.77	73.01	71.703		
8,500.00	7,028.98	6,850.00	6,890.15	94.19	31.96	-152.87	1,541.61	-1,272.61	5,295.85	5,217.05	78.80	67.207		
8,600.00	7,107.10	6,987.00	6,937.19	95.52	27.49	-153.06	1,540.51	-1,273.69	5,356.00	5,281.33	74.67	71.731		
8,647.91	7,144.53	6,987.00	6,937.19	96.16	27.49	-153.06	1,540.51	-1,273.69	5,385.13	5,310.38	74.75	72.045		
8,650.00	7,146.16	6,987.00	6,937.19	96.18	27.49	-153.47	1,540.51	-1,273.69	5,386.41	5,311.66	74.75	72.058		
8,700.00	7,185.66	7,026.89	6,976.81	96.84	27.58	-163.71	1,536.09	-1,274.32	5,416.61	5,341.63	74.99	72.233		
8,750.00	7,225.78	7,034.97	6,984.81	97.47	27.60	-174.30	1,534.93	-1,274.56	5,447.66	5,372.58	75.07	72.565		
8,800.00	7,266.21	7,076.00	7,025.14	98.08	27.68	174.78	1,527.62	-1,276.36	5,479.32	5,404.07	75.25	72.814		
8,850.00	7,306.63	7,076.00	7,025.14	98.64	27.68	164.03	1,527.62	-1,276.36	5,510.23	5,434.96	75.26	73.214		
8,900.00	7,346.75	7,076.00	7,025.14	99.17	27.68	153.61	1,527.62	-1,276.36	5,540.87	5,465.62	75.25	73.632		
8,950.00	7,386.25	8,950.00	7,067.69	99.64	30.85	143.86	1,517.00	-1,278.03	5,570.85	5,492.59	78.26	71.184		
9,000.00	7,424.84	9,000.00	7,106.48	100.06	30.95	134.96	1,507.31	-1,279.56	5,599.84	5,521.51	78.33	71.489		
9,050.00	7,462.22	7,201.55	7,146.28	100.42	27.87	126.99	1,495.23	-1,280.71	5,627.37	5,551.97	75.40	74.638		
9,100.00	7,498.11	7,213.77	7,157.82	100.74	27.88	119.83	1,491.22	-1,281.12	5,653.85	5,578.51	75.34	75.042		
9,150.00	7,532.24	7,225.93	7,169.23	100.99	27.90	113.53	1,487.06	-1,281.58	5,678.96	5,603.68	75.28	75.436		
9,200.00	7,564.34	7,255.00	7,196.25	101.19	27.93	108.13	1,476.39	-1,282.85	5,702.61	5,627.38	75.23	75.799		
9,250.00	7,594.17	7,255.00	7,196.25	101.34	27.93	103.34	1,476.39	-1,282.85	5,724.40	5,649.24	75.16	76.164		
9,300.00	7,621.50	7,255.00	7,196.25	101.45	27.93	99.22	1,476.39	-1,282.85	5,744.43	5,669.33	75.09	76.498		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,255.00	7,196.25	101.50	27.93	95.72	1,476.39	-1,282.85	5,762.56	5,687.52	75.04	76.798		
9,400.00	7,667.87	7,255.00	7,196.25	101.51	27.93	92.77	1,476.39	-1,282.85	5,778.68	5,703.68	74.99	77.054		
9,450.00	7,686.55	7,255.00	7,196.25	101.48	27.93	90.34	1,476.39	-1,282.85	5,792.68	5,717.71	74.97	77.263		
9,500.00	7,702.04	7,255.00	7,196.25	101.42	27.93	88.39	1,476.39	-1,282.85	5,804.47	5,729.49	74.98	77.418		
9,550.00	7,714.20	7,293.34	7,231.39	101.33	27.97	87.20	1,461.26	-1,285.19	5,813.35	5,738.32	75.03	77.479		
9,600.00	7,722.96	7,298.92	7,236.47	101.20	27.97	86.17	1,458.98	-1,285.61	5,820.32	5,745.22	75.09	77.507		
9,650.00	7,728.24	7,304.00	7,241.09	101.06	27.98	85.55	1,456.90	-1,286.01	5,824.89	5,749.70	75.19	77.471		
9,699.97	7,730.00	7,308.54	7,245.21	100.90	27.98	85.33	1,455.02	-1,286.38	5,827.04	5,751.73	75.31	77.370		
9,800.00	7,730.00	7,344.00	7,277.15	100.56	28.01	85.64	1,440.00	-1,289.75	5,830.05	5,754.42	75.63	77.091		
9,900.00	7,730.00	8,020.50	7,656.28	100.24	28.31	89.37	916.21	-1,302.46	5,825.74	5,752.39	73.35	79.419		
10,000.00	7,730.00	8,057.00	7,660.81	99.93	28.37	89.42	880.00	-1,301.56	5,822.50	5,748.96	73.55	79.169		
10,100.00	7,730.00	8,176.40	7,672.91	99.64	28.70	89.54	761.26	-1,298.43	5,819.42	5,745.94	73.48	79.195		
10,200.00	7,730.00	8,235.00	7,675.07	99.36	28.90	89.56	702.73	-1,297.16	5,816.78	5,743.05	73.73	78.892		
10,300.00	7,730.00	8,287.17	7,675.27	99.09	29.11	89.56	650.57	-1,296.41	5,814.88	5,740.80	74.08	78.499		
10,400.00	7,730.00	8,367.38	7,675.33	98.84	29.49	89.56	570.36	-1,295.53	5,813.43	5,739.00	74.44	78.098		
10,500.00	7,730.00	8,458.67	7,675.63	98.61	29.99	89.56	479.07	-1,294.76	5,812.25	5,737.33	74.92	77.582		
10,600.00	7,730.00	8,685.21	7,676.22	98.39	31.56	89.57	252.58	-1,290.52	5,810.06	5,734.25	75.80	76.647		
10,700.00	7,730.00	8,731.37	7,676.03	98.18	31.94	89.57	206.43	-1,289.39	5,807.24	5,730.68	76.56	75.856		
10,800.00	7,730.00	8,769.00	7,675.72	97.99	32.25	89.56	168.81	-1,288.74	5,805.30	5,727.99	77.31	75.091		
10,900.00	7,730.00	8,823.54	7,675.67	97.81	32.74	89.56	114.28	-1,288.30	5,804.26	5,726.06	78.20	74.228		
11,000.00	7,730.00	8,927.35	7,677.47	97.64	33.70	89.58	10.48	-1,288.48	5,804.10	5,724.69	79.41	73.095		
11,100.00	7,730.00	9,131.45	7,679.03	97.50	35.80	89.60	-193.59	-1,285.92	5,802.39	5,720.91	81.48	71.214		
11,200.00	7,730.00	9,206.05	7,679.33	97.36	36.63	89.60	-268.18	-1,284.58	5,800.24	5,717.43	82.81	70.041		
11,300.00	7,730.00	9,264.19	7,679.87	97.24	37.30	89.60	-326.31	-1,283.83	5,798.63	5,714.56	84.07	68.975		
11,400.00	7,730.00	9,339.13	7,680.34	97.14	38.18	89.61	-401.24	-1,283.45	5,797.73	5,712.20	85.53	67.785		
11,500.00	7,730.00	9,417.67	7,680.55	97.06	39.12	89.61	-479.78	-1,283.06	5,796.94	5,709.85	87.09	66.559		
11,544.62	7,730.00	9,437.19	7,680.72	97.02	39.36	89.61	-499.30	-1,283.08	5,796.84	5,709.18	87.66	66.130		
11,600.00	7,730.00	9,482.00	7,681.49	96.98	39.92	89.62	-544.11	-1,283.46	5,797.08	5,708.51	88.57	65.451		
11,700.00	7,730.00	9,541.22	7,683.04	96.93	40.67	89.63	-603.30	-1,284.23	5,797.85	5,707.80	90.05	64.387		
11,800.00	7,730.00	9,644.36	7,686.45	96.90	42.00	89.67	-706.38	-1,285.47	5,798.69	5,706.60	92.09	62.965		
11,900.00	7,730.00	9,773.19	7,691.07	96.88	43.71	89.71	-835.12	-1,286.68	5,799.28	5,704.71	94.57	61.321		
12,000.00	7,730.00	9,862.38	7,694.47	96.88	44.93	89.75	-924.24	-1,287.27	5,799.60	5,702.98	96.62	60.023		
12,100.00	7,730.00	9,927.00	7,695.66	96.90	45.82	89.76	-988.84	-1,288.10	5,800.49	5,702.12	98.37	58.965		
12,200.00	7,730.00	9,986.30	7,695.77	96.94	46.65	89.76	-1,048.13	-1,289.23	5,802.03	5,701.95	100.08	57.977		
12,300.00	7,730.00	10,095.62	7,694.95	97.00	48.19	89.75	-1,157.42	-1,291.68	5,803.95	5,701.41	102.54	56.602		
12,400.00	7,730.00	10,227.05	7,692.89	97.08	50.09	89.73	-1,288.81	-1,293.81	5,805.19	5,699.77	105.42	55.065		
12,500.00	7,730.00	10,389.45	7,688.62	97.18	52.47	89.69	-1,451.15	-1,295.77	5,806.26	5,697.36	108.90	53.318		
12,600.00	7,730.00	10,453.53	7,687.08	97.31	53.43	89.68	-1,515.21	-1,296.33	5,806.74	5,695.89	110.85	52.382		
12,700.00	7,730.00	10,552.75	7,687.53	97.46	54.93	89.68	-1,614.41	-1,297.37	5,807.45	5,694.01	113.44	51.194		
12,800.00	7,730.00	10,694.19	7,692.39	97.64	57.09	89.73	-1,755.76	-1,298.55	5,807.99	5,691.14	116.85	49.706		
12,900.00	7,730.00	10,875.31	7,691.42	97.85	59.89	89.72	-1,936.85	-1,297.70	5,807.10	5,686.07	121.03	47.979		
13,000.00	7,730.00	13,000.00	7,686.84	98.09	93.31	89.67	-2,063.44	-1,295.85	5,805.29	5,649.56	155.73	37.278		
13,100.00	7,730.00	11,065.42	7,684.58	98.35	62.88	89.65	-2,126.80	-1,294.97	5,803.64	5,677.23	126.42	45.908		
13,200.00	7,730.00	11,175.98	7,682.24	98.65	64.64	89.63	-2,237.33	-1,294.03	5,802.48	5,673.02	129.46	44.820		
13,300.00	7,730.00	11,238.35	7,681.06	98.98	65.63	89.62	-2,299.70	-1,293.55	5,801.39	5,669.78	131.60	44.082		
13,400.00	7,730.00	11,407.05	7,678.82	99.34	68.34	89.59	-2,468.37	-1,292.05	5,800.27	5,664.40	135.87	42.691		
13,500.00	7,730.00	11,531.00	7,679.87	99.74	70.35	89.60	-2,592.29	-1,289.44	5,797.75	5,658.44	139.31	41.617		
13,600.00	7,730.00	11,568.64	7,680.45	100.17	70.96	89.61	-2,629.91	-1,288.77	5,795.80	5,654.78	141.02	41.098		
13,700.00	7,730.00	11,620.00	7,681.37	100.65	71.79	89.62	-2,681.27	-1,288.87	5,795.30	5,652.28	143.02	40.522		
13,726.59	7,730.00	11,620.00	7,681.37	100.78	71.79	89.62	-2,681.27	-1,288.87	5,795.24	5,651.97	143.26	40.452		
13,800.00	7,730.00	11,620.00	7,681.37	101.16	71.79	89.62	-2,681.27	-1,288.87	5,795.70	5,651.77	143.93	40.267		
13,900.00	7,730.00	11,692.10	7,682.69	101.71	72.96	89.63	-2,753.34	-1,290.12	5,797.11	5,650.76	146.35	39.611		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,730.00	11,845.31	7,684.86	102.30	75.46	89.65	-2,906.51	-1,292.91	5,798.69	5,648.18	150.51	38.528		
14,100.00	7,730.00	11,929.49	7,686.00	102.93	76.84	89.66	-2,990.68	-1,293.77	5,799.41	5,646.19	153.22	37.850		
14,200.00	7,730.00	11,981.76	7,687.31	103.60	77.70	89.68	-3,042.93	-1,294.76	5,800.94	5,645.69	155.25	37.364		
14,300.00	7,730.00	12,073.33	7,690.45	104.32	79.20	89.71	-3,134.41	-1,296.93	5,802.95	5,644.79	158.16	36.691		
14,400.00	7,730.00	12,173.35	7,694.55	105.07	80.85	89.75	-3,234.32	-1,299.35	5,805.02	5,643.76	161.26	35.997		
14,500.00	7,730.00	12,276.65	7,699.14	105.86	82.56	89.79	-3,337.49	-1,301.85	5,807.08	5,642.62	164.46	35.309		
14,600.00	7,730.00	12,365.81	7,703.38	106.70	84.04	89.84	-3,426.52	-1,303.95	5,809.10	5,641.74	167.36	34.710		
14,700.00	7,730.00	12,447.52	7,706.33	107.57	85.39	89.87	-3,508.14	-1,306.28	5,811.57	5,641.48	170.09	34.167		
14,800.00	7,730.00	12,613.75	7,709.38	108.48	88.16	89.90	-3,674.30	-1,310.09	5,813.53	5,638.76	174.76	33.265		
14,900.00	7,730.00	12,744.75	7,711.29	109.43	90.35	89.91	-3,805.27	-1,311.85	5,814.50	5,635.84	178.66	32.546		
15,000.00	7,730.00	12,872.50	7,716.66	110.42	92.50	89.97	-3,932.90	-1,313.15	5,815.18	5,632.67	182.51	31.862		
15,100.00	7,730.00	12,985.73	7,722.50	111.43	94.41	90.02	-4,045.98	-1,313.85	5,815.47	5,629.42	186.05	31.257		
15,200.00	7,730.00	13,085.60	7,727.54	112.49	96.09	90.07	-4,145.72	-1,314.24	5,815.52	5,626.23	189.29	30.722		
15,300.00	7,730.00	13,171.01	7,730.53	113.57	97.54	90.10	-4,231.07	-1,314.80	5,815.85	5,623.64	192.20	30.259		
15,400.00	7,730.00	13,271.02	7,733.49	114.68	99.23	90.13	-4,331.04	-1,315.54	5,816.25	5,620.79	195.46	29.757		
15,500.00	7,730.00	13,409.56	7,736.78	115.82	101.58	90.17	-4,469.54	-1,316.24	5,816.46	5,616.83	199.63	29.136		
15,600.00	7,730.00	13,597.00	7,741.25	116.99	104.77	90.21	-4,656.91	-1,314.92	5,815.40	5,610.43	204.97	28.372		
15,700.00	7,730.00	13,901.95	7,742.04	118.19	110.00	90.22	-4,961.59	-1,304.05	5,810.72	5,597.71	213.00	27.280		
15,800.00	7,730.00	13,937.00	7,741.78	119.41	110.60	90.22	-4,996.62	-1,302.56	5,806.04	5,591.20	214.84	27.025		
15,900.00	7,730.00	13,937.00	7,741.78	120.65	110.60	90.22	-4,996.62	-1,302.56	5,802.73	5,586.91	215.83	26.886		
16,000.00	7,730.00	13,984.25	7,741.15	121.91	111.41	90.21	-5,043.85	-1,301.44	5,800.40	5,582.50	217.89	26.620		
16,100.00	7,730.00	14,026.00	7,740.38	123.20	112.13	90.20	-5,085.59	-1,301.38	5,799.59	5,579.77	219.81	26.384		
16,130.94	7,730.00	14,026.00	7,740.38	123.60	112.13	90.20	-5,085.59	-1,301.38	5,799.51	5,579.41	220.09	26.350		
16,200.00	7,730.00	14,057.22	7,739.71	124.50	112.66	90.19	-5,116.80	-1,301.67	5,799.82	5,578.36	221.46	26.189		
16,300.00	7,730.00	16,300.00	7,736.77	125.82	151.02	90.17	-5,241.03	-1,302.69	5,800.30	5,538.71	261.59	22.173		
16,400.00	7,730.00	14,263.32	7,735.25	127.16	116.18	90.15	-5,322.84	-1,303.08	5,800.47	5,572.24	228.23	25.415		
16,500.00	7,730.00	14,346.69	7,735.48	128.52	117.61	90.15	-5,406.21	-1,304.09	5,801.31	5,570.17	231.15	25.098		
16,600.00	7,730.00	14,486.73	7,737.21	129.89	120.01	90.17	-5,546.23	-1,305.29	5,801.86	5,566.38	235.47	24.639		
16,700.00	7,730.00	14,662.42	7,740.02	131.27	123.03	90.20	-5,721.90	-1,304.91	5,801.27	5,560.59	240.68	24.104		
16,800.00	7,730.00	14,724.98	7,740.61	132.67	124.11	90.20	-5,784.45	-1,304.60	5,800.43	5,557.31	243.12	23.858		
16,900.00	7,730.00	14,816.97	7,739.86	134.09	125.69	90.20	-5,876.43	-1,304.56	5,800.05	5,553.76	246.28	23.550		
17,000.00	7,730.00	14,926.89	7,738.06	135.51	127.59	90.18	-5,986.34	-1,304.44	5,799.59	5,549.71	249.88	23.209		
17,100.00	7,730.00	15,054.33	7,737.90	136.95	129.79	90.18	-6,113.78	-1,304.08	5,799.02	5,545.09	253.93	22.837		
17,200.00	7,730.00	15,147.20	7,737.86	138.40	131.39	90.18	-6,206.65	-1,303.29	5,797.84	5,540.72	257.13	22.549		
17,300.00	7,730.00	15,225.19	7,739.92	139.85	132.74	90.20	-6,284.60	-1,303.07	5,797.21	5,537.25	259.97	22.300		
17,377.75	7,730.00	15,273.00	7,741.13	140.99	133.57	90.21	-6,332.40	-1,302.98	5,796.89	5,535.04	261.85	22.138		
17,400.00	7,730.00	15,273.00	7,741.13	141.32	133.57	90.21	-6,332.40	-1,302.98	5,796.93	5,534.89	262.05	22.122		
17,500.00	7,730.00	15,319.22	7,742.08	142.80	134.36	90.22	-6,378.61	-1,303.32	5,797.57	5,533.51	264.06	21.955		
17,600.00	7,730.00	15,362.00	7,742.70	144.28	135.10	90.22	-6,421.37	-1,304.39	5,799.53	5,533.56	265.97	21.805		
17,700.00	7,730.00	15,388.76	7,743.01	145.78	135.56	90.23	-6,448.11	-1,305.35	5,802.55	5,535.12	267.43	21.697		
17,800.00	7,730.00	15,451.00	7,743.66	147.28	136.63	90.23	-6,510.28	-1,308.18	5,806.63	5,536.83	269.80	21.522		
17,900.00	7,730.00	15,691.44	7,747.16	148.79	140.76	90.27	-6,750.51	-1,316.82	5,810.27	5,533.40	276.87	20.986		
18,000.00	7,730.00	15,840.24	7,751.26	150.31	143.33	90.31	-6,899.24	-1,319.46	5,811.75	5,530.22	281.53	20.644		
18,100.00	7,730.00	15,951.40	7,754.67	151.83	145.25	90.34	-7,010.34	-1,320.61	5,812.45	5,527.23	285.22	20.379		
18,200.00	7,730.00	16,084.18	7,759.15	153.37	147.55	90.39	-7,143.03	-1,321.84	5,813.10	5,523.62	289.48	20.081		
18,300.00	7,730.00	16,163.12	7,760.71	154.90	148.92	90.40	-7,221.96	-1,322.43	5,813.52	5,521.17	292.35	19.885		
18,400.00	7,730.00	16,215.67	7,761.79	156.45	149.83	90.41	-7,274.49	-1,323.11	5,814.49	5,519.95	294.54	19.741		
18,500.00	7,730.00	16,309.37	7,765.73	158.00	151.46	90.45	-7,368.08	-1,324.99	5,816.18	5,518.38	297.79	19.531		
18,600.00	7,730.00	16,406.47	7,770.73	159.55	153.14	90.50	-7,465.04	-1,326.61	5,817.55	5,516.40	301.14	19.318		
18,700.00	7,730.00	16,499.42	7,775.09	161.11	154.75	90.54	-7,557.88	-1,328.41	5,819.19	5,514.81	304.38	19.118		
18,800.00	7,730.00	16,618.90	7,779.85	162.68	156.82	90.59	-7,677.24	-1,330.59	5,820.72	5,512.40	308.32	18.879		
18,900.00	7,730.00	17,032.69	7,792.16	164.25	164.04	90.71	-8,090.72	-1,324.83	5,817.98	5,498.33	319.65	18.201		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,000.00	7,730.00	17,133.54	7,793.47	165.83	165.81	90.72	-8,191.49	-1,320.92	5,813.78	5,490.66	323.12	17.993	
19,100.00	7,730.00	17,285.12	7,794.68	167.41	168.47	90.74	-8,342.93	-1,314.60	5,809.30	5,481.50	327.80	17.722	
19,200.00	7,730.00	17,340.00	7,795.17	168.99	169.43	90.74	-8,397.75	-1,312.06	5,804.51	5,474.32	330.18	17.580	
19,300.00	7,730.00	17,340.00	7,795.17	170.58	169.43	90.74	-8,397.75	-1,312.06	5,801.18	5,469.98	331.20	17.516	
19,400.00	7,730.00	17,340.00	7,795.17	172.17	169.43	90.74	-8,397.75	-1,312.06	5,799.57	5,467.44	332.13	17.462	
19,430.54	7,730.00	17,340.00	7,795.17	172.66	169.43	90.74	-8,397.75	-1,312.06	5,799.43	5,467.03	332.40	17.447 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.68	787.25	-1,111.02	1,361.69					
100.00	100.00	93.18	93.18	0.13	0.15	-54.68	787.10	-1,111.03	1,361.59	1,361.31	0.28	4,864.003		
200.00	200.00	195.57	195.57	0.49	0.31	-54.70	786.60	-1,111.08	1,361.34	1,360.54	0.80	1,705.455		
287.79	287.79	278.79	278.79	0.81	0.64	-54.72	786.16	-1,111.27	1,361.24	1,359.79	1.45	940.397 CC		
300.00	300.00	290.53	290.52	0.85	0.68	-54.73	786.11	-1,111.31	1,361.24	1,359.71	1.53	887.826		
400.00	400.00	389.19	389.19	1.21	1.03	-54.75	785.76	-1,111.69	1,361.35	1,359.11	2.24	608.088		
500.00	500.00	488.89	488.89	1.57	1.38	-54.75	785.69	-1,111.91	1,361.49	1,358.55	2.95	462.187 ES		
600.00	599.98	584.70	584.69	1.92	1.72	-120.18	785.17	-1,112.62	1,362.67	1,359.03	3.64	374.627		
700.00	699.84	659.23	659.21	2.28	1.98	-120.27	785.49	-1,113.66	1,366.69	1,362.43	4.25	321.350		
800.00	799.45	735.67	735.57	2.64	2.24	-120.28	788.78	-1,114.33	1,374.27	1,369.39	4.88	281.748		
900.00	898.70	808.34	807.97	3.02	2.50	-120.20	794.94	-1,114.37	1,385.35	1,379.85	5.50	251.951		
1,000.00	997.47	888.72	887.81	3.41	2.78	-120.08	804.29	-1,114.48	1,399.98	1,393.81	6.17	227.035		
1,100.00	1,095.62	981.31	979.62	3.84	3.13	-120.01	816.23	-1,114.70	1,417.17	1,410.27	6.90	205.261		
1,200.00	1,193.06	1,072.44	1,069.86	4.29	3.48	-119.97	828.89	-1,114.59	1,436.39	1,428.73	7.67	187.339		
1,300.00	1,289.64	1,160.46	1,156.86	4.78	3.82	-119.94	842.26	-1,114.37	1,457.97	1,449.52	8.45	172.490		
1,400.00	1,385.27	1,248.20	1,243.46	5.32	4.18	-119.94	856.36	-1,114.26	1,481.92	1,472.64	9.27	159.836		
1,500.00	1,479.82	1,341.14	1,335.19	5.90	4.56	-120.03	871.30	-1,114.64	1,508.09	1,497.94	10.15	148.561		
1,600.00	1,573.17	1,424.47	1,417.40	6.53	4.91	-120.10	884.96	-1,115.07	1,536.37	1,525.34	11.03	139.340		
1,700.00	1,665.21	1,502.52	1,494.29	7.23	5.24	-120.16	898.29	-1,116.02	1,567.43	1,555.52	11.91	131.558		
1,800.00	1,755.84	1,598.71	1,588.94	7.98	5.66	-120.39	915.40	-1,117.50	1,601.05	1,588.12	12.93	123.817		
1,900.00	1,844.94	1,698.86	1,687.78	8.80	6.09	-120.76	931.46	-1,119.02	1,635.79	1,621.78	14.00	116.825		
2,000.00	1,932.39	1,773.28	1,761.28	9.68	6.41	-120.90	943.02	-1,120.48	1,672.77	1,657.80	14.98	111.683		
2,100.00	2,018.11	1,874.61	1,861.36	10.63	6.84	-121.40	958.62	-1,123.31	1,712.57	1,696.45	16.12	106.217		
2,200.00	2,101.97	1,964.55	1,950.44	11.65	7.21	-121.81	970.86	-1,125.26	1,753.33	1,736.09	17.24	101.721		
2,300.00	2,183.88	2,037.38	2,022.62	12.74	7.51	-122.02	980.41	-1,127.36	1,796.79	1,778.51	18.29	98.257		
2,400.00	2,263.74	2,125.08	2,109.49	13.90	7.87	-122.44	992.04	-1,130.20	1,842.97	1,823.53	19.44	94.803		
2,431.61	2,288.54	2,161.12	2,145.21	14.29	8.02	-122.69	996.72	-1,131.11	1,857.87	1,838.02	19.85	93.572		
2,500.00	2,341.97	2,263.95	2,247.25	15.13	8.44	-124.21	1,009.36	-1,132.30	1,889.73	1,868.85	20.88	90.509		
2,600.00	2,420.08	2,359.17	2,341.82	16.37	8.82	-125.54	1,020.43	-1,131.97	1,935.59	1,913.51	22.08	87.662		
2,700.00	2,498.20	2,439.80	2,421.94	17.63	9.15	-126.63	1,029.56	-1,131.48	1,981.84	1,958.65	23.19	85.448		
2,800.00	2,576.32	2,520.50	2,502.13	18.89	9.47	-127.68	1,038.62	-1,131.02	2,028.75	2,004.46	24.29	83.510		
2,900.00	2,654.43	2,623.90	2,604.80	20.17	9.88	-128.94	1,050.80	-1,129.80	2,075.98	2,050.47	25.51	81.375		
3,000.00	2,732.55	2,698.97	2,679.16	21.45	10.19	-129.78	1,060.89	-1,127.83	2,123.04	2,096.46	26.58	79.882		
3,100.00	2,810.67	2,740.00	2,719.76	22.74	10.36	-130.21	1,066.77	-1,126.97	2,171.42	2,143.99	27.43	79.163		
3,200.00	2,888.78	2,794.88	2,773.98	24.03	10.60	-130.78	1,075.16	-1,126.54	2,221.39	2,193.04	28.35	78.356		
3,300.00	2,966.90	2,839.12	2,817.62	25.33	10.79	-131.21	1,082.45	-1,127.04	2,273.28	2,244.10	29.18	77.901		
3,400.00	3,045.02	2,905.02	2,882.59	26.63	11.08	-131.84	1,093.37	-1,128.45	2,326.36	2,296.21	30.14	77.176		
3,500.00	3,123.13	2,986.61	2,963.08	27.94	11.44	-132.61	1,106.55	-1,130.57	2,380.03	2,348.83	31.20	76.286		
3,600.00	3,201.25	3,077.12	3,052.49	29.24	11.83	-133.43	1,120.49	-1,132.81	2,433.78	2,401.47	32.30	75.348		
3,700.00	3,279.37	3,168.57	3,142.97	30.55	12.22	-134.26	1,133.57	-1,134.85	2,487.44	2,454.05	33.39	74.500		
3,800.00	3,357.49	3,260.71	3,234.30	31.86	12.60	-135.08	1,145.58	-1,136.74	2,541.03	2,506.57	34.46	73.743		
3,900.00	3,435.60	3,355.41	3,328.32	33.18	12.98	-135.92	1,156.79	-1,138.40	2,594.51	2,558.99	35.52	73.039		
4,000.00	3,513.72	3,443.77	3,416.04	34.49	13.35	-136.66	1,167.31	-1,139.51	2,647.91	2,611.37	36.55	72.454		
4,100.00	3,591.84	3,533.07	3,504.47	35.81	13.72	-137.34	1,179.71	-1,140.02	2,701.33	2,663.75	37.58	71.877		
4,200.00	3,669.95	3,615.38	3,585.94	37.12	14.06	-137.93	1,191.52	-1,140.23	2,754.81	2,716.24	38.57	71.416		
4,300.00	3,748.07	3,711.35	3,681.14	38.44	14.46	-138.63	1,203.56	-1,140.55	2,808.32	2,768.69	39.63	70.860		
4,400.00	3,826.19	3,802.22	3,771.48	39.76	14.82	-139.31	1,213.35	-1,140.64	2,861.65	2,821.02	40.63	70.440		
4,500.00	3,904.30	3,854.01	3,823.03	41.08	15.02	-139.69	1,218.40	-1,140.91	2,915.44	2,874.09	41.35	70.513		
4,600.00	3,982.42	3,902.80	3,871.60	42.40	15.21	-140.06	1,222.95	-1,141.73	2,970.32	2,928.29	42.03	70.671		
4,700.00	4,060.54	3,961.50	3,930.04	43.72	15.43	-140.49	1,228.29	-1,143.23	3,026.10	2,983.34	42.76	70.763		
4,800.00	4,138.66	4,070.56	4,038.68	45.05	15.85	-141.28	1,237.24	-1,146.24	3,082.26	3,038.45	43.81	70.354		
4,900.00	4,216.77	4,126.84	4,094.81	46.37	16.05	-141.69	1,241.21	-1,147.60	3,138.22	3,093.72	44.50	70.524		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,192.32	4,160.06	47.69	16.30	-142.14	1,246.21	-1,149.68	3,195.00	3,149.76	45.24	70.617		
5,100.00	4,373.01	4,388.15	4,354.36	49.02	17.09	-143.25	1,270.09	-1,151.47	3,250.58	3,203.61	46.97	69.212		
5,200.00	4,451.12	4,472.03	4,437.48	50.34	17.44	-143.67	1,281.39	-1,150.59	3,304.81	3,256.90	47.91	68.981		
5,300.00	4,529.24	4,512.27	4,477.34	51.67	17.61	-143.87	1,286.89	-1,150.46	3,359.70	3,311.17	48.53	69.232		
5,400.00	4,607.36	4,558.33	4,522.93	52.99	17.81	-144.09	1,293.45	-1,150.75	3,415.57	3,366.39	49.18	69.450		
5,500.00	4,685.47	4,615.65	4,579.68	54.32	18.05	-144.36	1,301.42	-1,151.59	3,472.20	3,422.29	49.91	69.572		
5,600.00	4,763.59	4,683.07	4,646.54	55.64	18.32	-144.68	1,310.01	-1,153.03	3,529.40	3,478.71	50.69	69.621		
5,700.00	4,841.71	4,755.71	4,718.71	56.97	18.62	-145.05	1,318.05	-1,154.79	3,586.87	3,535.37	51.50	69.646		
5,800.00	4,919.83	4,827.69	4,790.18	58.30	18.91	-145.39	1,326.42	-1,156.69	3,644.64	3,592.34	52.30	69.682		
5,900.00	4,997.94	4,920.98	4,882.33	59.62	19.31	-145.76	1,340.71	-1,158.78	3,702.36	3,649.04	53.32	69.435		
6,000.00	5,076.06	4,989.49	4,949.67	60.95	19.62	-145.99	1,353.22	-1,160.24	3,760.19	3,706.02	54.17	69.417		
6,100.00	5,154.18	5,068.14	5,026.95	62.28	19.98	-146.24	1,367.73	-1,162.05	3,818.21	3,763.11	55.10	69.292		
6,200.00	5,232.29	5,152.46	5,110.08	63.61	20.35	-146.52	1,381.69	-1,164.04	3,876.27	3,820.21	56.06	69.144		
6,300.00	5,310.41	5,243.05	5,199.79	64.93	20.73	-146.87	1,394.07	-1,166.10	3,934.23	3,877.21	57.03	68.990		
6,400.00	5,388.53	5,328.11	5,284.34	66.26	21.07	-147.23	1,403.22	-1,167.91	3,992.09	3,934.19	57.90	68.944		
6,500.00	5,466.64	5,404.53	5,360.42	67.59	21.37	-147.56	1,410.20	-1,169.55	4,050.01	3,991.32	58.70	69.000		
6,600.00	5,544.76	5,474.51	5,429.99	68.92	21.65	-147.84	1,417.62	-1,171.11	4,108.14	4,048.68	59.46	69.095		
6,700.00	5,622.88	5,541.73	5,496.47	70.25	21.93	-148.06	1,427.38	-1,172.77	4,166.57	4,106.34	60.23	69.177		
6,800.00	5,701.00	5,612.01	5,565.91	71.58	22.24	-148.28	1,438.06	-1,174.66	4,225.26	4,164.22	61.04	69.219		
6,900.00	5,779.11	5,689.15	5,642.33	72.91	22.56	-148.53	1,448.29	-1,176.87	4,284.12	4,222.24	61.88	69.230		
7,000.00	5,857.23	5,993.14	5,944.15	74.23	23.78	-149.55	1,484.07	-1,177.31	4,340.53	4,276.09	64.44	67.358		
7,100.00	5,935.35	6,031.71	5,982.37	75.56	23.94	-149.67	1,489.25	-1,176.75	4,395.89	4,330.90	64.99	67.637		
7,200.00	6,013.46	6,065.00	6,015.35	76.89	24.08	-149.76	1,493.75	-1,176.39	4,451.93	4,386.43	65.49	67.975		
7,300.00	6,091.58	6,118.50	6,068.39	78.22	24.30	-149.92	1,500.73	-1,176.27	4,508.64	4,442.50	66.14	68.165		
7,400.00	6,169.70	6,154.00	6,103.62	79.55	24.45	-150.02	1,505.05	-1,176.56	4,566.19	4,499.55	66.64	68.521		
7,500.00	6,247.81	6,215.17	6,164.33	80.88	24.70	-150.20	1,512.48	-1,177.47	4,624.32	4,556.99	67.33	68.678		
7,600.00	6,325.93	6,277.54	6,226.19	82.21	24.95	-150.38	1,520.34	-1,178.73	4,682.90	4,614.86	68.04	68.828		
7,700.00	6,404.05	6,384.40	6,332.30	83.54	25.39	-150.69	1,532.82	-1,180.96	4,741.66	4,672.57	69.09	68.630		
7,800.00	6,482.17	6,457.77	6,405.15	84.87	25.68	-150.90	1,541.48	-1,181.94	4,799.83	4,729.96	69.87	68.695		
7,900.00	6,560.28	6,511.00	6,458.05	86.20	25.90	-151.05	1,547.27	-1,183.08	4,858.65	4,788.17	70.48	68.932		
8,000.00	6,638.40	6,549.91	6,496.76	87.53	26.05	-151.17	1,551.11	-1,184.18	4,918.03	4,847.06	70.97	69.299		
8,100.00	6,716.52	6,602.16	6,548.78	88.86	26.25	-151.33	1,555.60	-1,185.87	4,977.92	4,906.37	71.54	69.578		
8,200.00	6,794.63	6,878.57	6,824.12	90.20	27.29	-152.16	1,578.91	-1,190.20	5,036.67	4,962.87	73.80	68.250		
8,300.00	6,872.75	6,916.63	6,862.09	91.53	27.43	-152.28	1,581.68	-1,190.22	5,094.14	5,019.87	74.27	68.592		
8,400.00	6,950.87	6,961.22	6,906.59	92.86	27.59	-152.42	1,584.44	-1,190.50	5,152.24	5,077.46	74.77	68.906		
8,500.00	7,028.98	8,500.00	7,033.14	94.19	31.27	-152.95	1,581.46	-1,191.05	5,210.74	5,131.78	78.96	65.992		
8,600.00	7,107.10	7,135.00	7,079.84	95.52	28.07	-153.19	1,576.92	-1,190.71	5,268.68	5,192.65	76.03	69.294		
8,647.91	7,144.53	7,135.00	7,079.84	96.16	28.07	-153.19	1,576.92	-1,190.71	5,296.78	5,220.66	76.12	69.585		
8,650.00	7,146.16	7,135.00	7,079.84	96.18	28.07	-153.59	1,576.92	-1,190.71	5,298.02	5,221.89	76.12	69.598		
8,700.00	7,185.66	7,175.42	7,119.46	96.84	28.13	-163.66	1,568.99	-1,190.12	5,327.16	5,250.86	76.30	69.819		
8,750.00	7,225.78	7,183.80	7,127.61	97.47	28.15	-174.06	1,567.03	-1,190.12	5,357.17	5,280.79	76.38	70.139		
8,800.00	7,266.21	7,224.00	7,166.32	98.08	28.21	175.18	1,556.23	-1,190.62	5,387.77	5,311.28	76.49	70.438		
8,850.00	7,306.63	7,224.00	7,166.32	98.64	28.21	164.62	1,556.23	-1,190.62	5,417.70	5,341.19	76.51	70.810		
8,900.00	7,346.75	7,224.00	7,166.32	99.17	28.21	154.37	1,556.23	-1,190.62	5,447.41	5,370.90	76.51	71.199		
8,950.00	7,386.25	7,224.00	7,166.32	99.64	28.21	144.70	1,556.23	-1,190.62	5,476.68	5,400.19	76.49	71.602		
9,000.00	7,424.84	7,224.00	7,166.32	100.06	28.21	135.76	1,556.23	-1,190.62	5,505.29	5,428.84	76.45	72.014		
9,050.00	7,462.22	7,224.00	7,166.32	100.42	28.21	127.65	1,556.23	-1,190.62	5,533.04	5,456.65	76.39	72.429		
9,100.00	7,498.11	7,224.00	7,166.32	100.74	28.21	120.41	1,556.23	-1,190.62	5,559.73	5,483.41	76.33	72.841		
9,150.00	7,532.24	7,224.00	7,166.32	100.99	28.21	114.00	1,556.23	-1,190.62	5,585.18	5,508.92	76.25	73.244		
9,200.00	7,564.34	7,224.00	7,166.32	101.19	28.21	108.39	1,556.23	-1,190.62	5,609.20	5,533.02	76.18	73.631		
9,250.00	7,594.17	7,264.98	7,205.08	101.34	28.25	103.78	1,543.03	-1,192.17	5,630.87	5,554.71	76.16	73.937		
9,300.00	7,621.50	7,272.14	7,211.78	101.45	28.25	99.65	1,540.52	-1,192.56	5,651.28	5,575.18	76.10	74.260		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,313.00	7,249.50	101.50	28.29	96.38	1,525.12	-1,195.45	5,670.32	5,594.24	76.08	74.533		
9,400.00	7,667.87	7,313.00	7,249.50	101.51	28.29	93.40	1,525.12	-1,195.45	5,686.62	5,610.58	76.05	74.779		
9,450.00	7,686.55	7,313.00	7,249.50	101.48	28.29	90.94	1,525.12	-1,195.45	5,700.85	5,624.82	76.03	74.978		
9,500.00	7,702.04	7,313.00	7,249.50	101.42	28.29	88.96	1,525.12	-1,195.45	5,712.91	5,636.87	76.05	75.124		
9,550.00	7,714.20	7,313.00	7,249.50	101.33	28.29	87.42	1,525.12	-1,195.45	5,722.73	5,646.65	76.09	75.215		
9,600.00	7,722.96	7,313.00	7,249.50	101.20	28.29	86.31	1,525.12	-1,195.45	5,730.24	5,654.09	76.15	75.245		
9,650.00	7,728.24	7,313.00	7,249.50	101.06	28.29	85.60	1,525.12	-1,195.45	5,735.40	5,659.15	76.26	75.213		
9,699.97	7,730.00	7,313.00	7,249.50	100.90	28.29	85.28	1,525.12	-1,195.45	5,738.17	5,661.78	76.39	75.118		
9,800.00	7,730.00	8,293.00	7,789.70	100.56	29.19	90.69	774.17	-1,204.00	5,741.69	5,668.41	73.29	78.346		
9,900.00	7,730.00	8,293.00	7,789.70	100.24	29.19	90.69	774.17	-1,204.00	5,734.36	5,660.70	73.66	77.852		
10,000.00	7,730.00	8,307.80	7,790.40	99.93	29.24	90.69	759.40	-1,203.30	5,728.74	5,654.73	74.01	77.404		
10,100.00	7,730.00	8,382.00	7,792.09	99.64	29.52	90.71	685.30	-1,199.95	5,723.93	5,649.72	74.21	77.131		
10,200.00	7,730.00	8,458.85	7,792.14	99.36	29.86	90.71	608.51	-1,196.83	5,719.55	5,645.04	74.51	76.761		
10,300.00	7,730.00	8,514.79	7,792.18	99.09	30.15	90.71	552.61	-1,194.90	5,715.77	5,640.84	74.94	76.274		
10,400.00	7,730.00	8,560.00	7,792.56	98.84	30.40	90.72	507.42	-1,193.69	5,712.83	5,637.40	75.42	75.743		
10,500.00	7,730.00	8,620.85	7,793.08	98.61	30.77	90.72	446.58	-1,192.55	5,710.69	5,634.70	75.99	75.151		
10,600.00	7,730.00	8,681.10	7,793.11	98.39	31.17	90.72	386.33	-1,191.96	5,709.34	5,632.72	76.62	74.515		
10,700.00	7,730.00	8,754.20	7,792.01	98.18	31.69	90.71	313.24	-1,191.68	5,708.59	5,631.25	77.34	73.809		
10,800.00	7,730.00	8,853.04	7,788.33	97.99	32.47	90.68	214.48	-1,191.50	5,708.02	5,629.78	78.24	72.956		
10,900.00	7,730.00	8,917.00	7,785.46	97.81	33.01	90.65	150.58	-1,191.44	5,707.64	5,628.52	79.12	72.141		
10,920.81	7,730.00	8,943.39	7,784.40	97.77	33.25	90.64	124.20	-1,191.49	5,707.58	5,628.20	79.38	71.904		
11,000.00	7,730.00	8,984.95	7,783.19	97.64	33.62	90.62	82.67	-1,191.78	5,707.84	5,627.75	80.10	71.262		
11,100.00	7,730.00	9,039.95	7,782.11	97.50	34.14	90.61	27.68	-1,192.57	5,708.91	5,627.83	81.07	70.416		
11,200.00	7,730.00	9,362.00	7,761.22	97.36	37.53	90.40	-293.49	-1,192.11	5,708.25	5,624.22	84.03	67.928		
11,300.00	7,730.00	9,395.55	7,760.91	97.24	37.92	90.40	-327.03	-1,191.53	5,706.34	5,621.26	85.08	67.074		
11,400.00	7,730.00	9,451.00	7,762.22	97.14	38.56	90.41	-382.46	-1,191.74	5,705.97	5,619.62	86.35	66.080		
11,427.47	7,730.00	9,451.00	7,762.22	97.12	38.56	90.41	-382.46	-1,191.74	5,705.91	5,619.34	86.57	65.915		
11,500.00	7,730.00	9,451.00	7,762.22	97.06	38.56	90.41	-382.46	-1,191.74	5,706.37	5,619.25	87.12	65.501		
11,600.00	7,730.00	9,514.59	7,765.16	96.98	39.33	90.44	-445.97	-1,192.97	5,707.99	5,619.44	88.54	64.465		
11,700.00	7,730.00	9,597.35	7,768.93	96.93	40.33	90.48	-528.62	-1,194.97	5,710.10	5,619.88	90.22	63.288		
11,800.00	7,730.00	9,702.50	7,771.42	96.90	41.65	90.51	-633.70	-1,197.63	5,712.31	5,620.09	92.22	61.944		
11,900.00	7,730.00	9,935.46	7,775.88	96.88	44.71	90.55	-866.59	-1,199.85	5,712.51	5,616.54	95.96	59.529		
12,000.00	7,730.00	10,024.23	7,776.09	96.88	45.92	90.55	-955.37	-1,200.00	5,712.35	5,614.35	98.00	58.289		
12,001.72	7,730.00	10,025.55	7,776.10	96.88	45.94	90.55	-956.68	-1,200.00	5,712.35	5,614.31	98.03	58.270		
12,100.00	7,730.00	10,103.12	7,777.46	96.90	47.01	90.57	-1,034.24	-1,200.41	5,712.54	5,612.58	99.96	57.148		
12,200.00	7,730.00	10,198.27	7,779.43	96.94	48.35	90.59	-1,129.36	-1,201.17	5,713.02	5,610.81	102.21	55.894		
12,300.00	7,730.00	10,296.32	7,779.89	97.00	49.75	90.59	-1,227.41	-1,201.84	5,713.37	5,608.81	104.56	54.643		
12,400.00	7,730.00	10,372.70	7,781.47	97.08	50.86	90.61	-1,303.77	-1,202.61	5,714.07	5,607.44	106.62	53.590		
12,500.00	7,730.00	10,445.88	7,783.26	97.18	51.93	90.62	-1,376.91	-1,203.64	5,715.17	5,606.49	108.68	52.590		
12,600.00	7,730.00	10,506.13	7,783.71	97.31	52.81	90.63	-1,437.15	-1,204.87	5,716.88	5,606.35	110.53	51.721		
12,700.00	7,730.00	10,595.24	7,783.92	97.46	54.13	90.63	-1,526.23	-1,207.15	5,719.09	5,606.20	112.90	50.657		
12,800.00	7,730.00	10,666.82	7,785.43	97.64	55.20	90.65	-1,597.77	-1,209.13	5,721.56	5,606.56	115.01	49.750		
12,900.00	7,730.00	11,177.28	7,785.84	97.85	63.07	90.65	-2,107.69	-1,208.72	5,722.85	5,597.68	125.17	45.721		
13,000.00	7,730.00	11,233.00	7,787.01	98.09	63.95	90.66	-2,163.37	-1,206.97	5,719.14	5,591.98	127.17	44.974		
13,100.00	7,730.00	11,263.63	7,787.75	98.35	64.44	90.67	-2,193.99	-1,206.31	5,716.28	5,587.60	128.68	44.422		
13,200.00	7,730.00	11,344.74	7,789.80	98.65	65.73	90.69	-2,275.06	-1,204.67	5,713.96	5,582.77	131.19	43.555		
13,300.00	7,730.00	11,411.00	7,789.84	98.98	66.79	90.69	-2,341.30	-1,203.72	5,712.17	5,578.76	133.41	42.817		
13,400.00	7,730.00	11,559.42	7,791.13	99.34	69.17	90.70	-2,489.67	-1,201.00	5,709.91	5,572.60	137.31	41.585		
13,500.00	7,730.00	11,639.79	7,795.94	99.74	70.48	90.75	-2,569.88	-1,199.44	5,707.70	5,567.81	139.88	40.803		
13,600.00	7,730.00	11,713.63	7,801.56	100.17	71.68	90.81	-2,643.50	-1,198.28	5,705.90	5,563.56	142.34	40.085		
13,700.00	7,730.00	11,786.45	7,807.80	100.65	72.86	90.87	-2,716.04	-1,197.50	5,704.60	5,559.81	144.80	39.397		
13,800.00	7,730.00	11,868.72	7,813.34	101.16	74.21	90.93	-2,798.12	-1,196.97	5,703.72	5,556.26	147.46	38.681		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	12,012.29	7,818.73	101.71	76.56	90.98	-2,941.58	-1,195.91	5,702.76	5,551.33	151.43	37.658		
14,000.00	7,730.00	12,149.89	7,819.02	102.30	78.83	90.99	-3,079.16	-1,193.76	5,700.85	5,545.54	155.30	36.708		
14,100.00	7,730.00	12,213.00	7,817.20	102.93	79.87	90.97	-3,142.23	-1,192.56	5,698.71	5,541.13	157.58	36.164		
14,200.00	7,730.00	12,258.13	7,815.26	103.60	80.61	90.95	-3,187.31	-1,192.07	5,697.46	5,537.99	159.46	35.729		
14,246.04	7,730.00	12,271.88	7,814.63	103.92	80.84	90.94	-3,201.05	-1,192.08	5,697.33	5,537.15	160.18	35.569		
14,300.00	7,730.00	12,302.00	7,813.17	104.32	81.34	90.93	-3,231.13	-1,192.40	5,697.56	5,536.25	161.31	35.320		
14,400.00	7,730.00	12,405.93	7,808.90	105.07	83.05	90.88	-3,334.97	-1,193.49	5,698.23	5,533.74	164.49	34.643		
14,500.00	7,730.00	12,467.48	7,807.79	105.86	84.07	90.87	-3,396.50	-1,194.14	5,698.91	5,532.18	166.74	34.179		
14,600.00	7,730.00	12,685.29	7,805.76	106.70	87.70	90.85	-3,614.28	-1,194.42	5,698.44	5,525.91	172.53	33.029		
14,700.00	7,730.00	12,748.00	7,804.91	107.57	88.74	90.84	-3,676.98	-1,194.11	5,697.63	5,522.79	174.85	32.587		
14,721.89	7,730.00	12,748.00	7,804.91	107.77	88.74	90.84	-3,676.98	-1,194.11	5,697.59	5,522.55	175.04	32.550		
14,800.00	7,730.00	12,779.77	7,805.02	108.48	89.27	90.84	-3,708.75	-1,194.23	5,697.80	5,521.34	176.45	32.291		
14,900.00	7,730.00	12,806.89	7,805.37	109.43	89.73	90.85	-3,735.86	-1,194.71	5,699.25	5,521.31	177.93	32.030		
15,000.00	7,730.00	12,837.00	7,806.04	110.42	90.23	90.86	-3,765.95	-1,195.65	5,701.98	5,522.51	179.47	31.771		
15,100.00	7,730.00	12,905.92	7,807.85	111.43	91.37	90.87	-3,834.79	-1,198.39	5,705.63	5,523.72	181.91	31.365		
15,200.00	7,730.00	12,967.98	7,809.20	112.49	92.40	90.89	-3,896.78	-1,201.15	5,709.79	5,525.61	184.18	31.001		
15,300.00	7,730.00	13,598.45	7,822.04	113.57	103.05	91.02	-4,526.51	-1,198.27	5,705.61	5,505.69	199.92	28.540		
15,400.00	7,730.00	13,639.00	7,823.71	114.68	103.75	91.03	-4,566.99	-1,196.73	5,701.44	5,499.60	201.84	28.247		
15,500.00	7,730.00	13,639.00	7,823.71	115.82	103.75	91.03	-4,566.99	-1,196.73	5,698.60	5,495.82	202.78	28.102		
15,600.00	7,730.00	13,693.16	7,825.31	116.99	104.67	91.05	-4,621.11	-1,195.65	5,696.66	5,491.68	204.98	27.791		
15,700.00	7,730.00	13,728.00	7,825.86	118.19	105.26	91.05	-4,655.95	-1,195.60	5,696.12	5,489.42	206.70	27.557		
15,700.95	7,730.00	13,728.00	7,825.86	118.20	105.26	91.05	-4,655.95	-1,195.60	5,696.12	5,489.41	206.71	27.556		
15,800.00	7,730.00	15,800.00	7,825.55	119.41	140.57	91.05	-4,811.57	-1,195.90	5,696.16	5,452.19	243.97	23.348		
15,900.00	7,730.00	13,966.33	7,825.28	120.65	109.32	91.05	-4,894.25	-1,194.95	5,694.78	5,480.58	214.19	26.587		
16,000.00	7,730.00	14,079.48	7,825.87	121.91	111.25	91.06	-5,007.41	-1,194.98	5,694.54	5,476.73	217.81	26.144		
16,100.00	7,730.00	14,153.12	7,826.70	123.20	112.51	91.06	-5,081.03	-1,194.67	5,693.82	5,473.34	220.48	25.824		
16,145.90	7,730.00	14,173.00	7,827.30	123.79	112.85	91.07	-5,100.91	-1,194.65	5,693.69	5,472.32	221.37	25.720		
16,200.00	7,730.00	14,173.00	7,827.30	124.50	112.85	91.07	-5,100.91	-1,194.65	5,693.94	5,472.12	221.83	25.668		
16,300.00	7,730.00	14,228.49	7,828.61	125.82	113.80	91.08	-5,156.37	-1,195.21	5,694.94	5,470.91	224.03	25.421		
16,400.00	7,730.00	14,487.40	7,825.25	127.16	118.22	91.05	-5,415.21	-1,196.24	5,694.49	5,463.22	231.27	24.623		
16,500.00	7,730.00	16,500.00	7,825.01	128.52	152.81	91.05	-5,519.21	-1,195.63	5,693.57	5,426.07	267.50	21.285		
16,600.00	7,730.00	14,670.94	7,826.16	129.89	121.38	91.06	-5,598.72	-1,194.84	5,692.34	5,454.79	237.54	23.963		
16,680.77	7,730.00	14,708.00	7,827.07	131.01	122.02	91.07	-5,635.78	-1,194.83	5,692.05	5,452.89	239.16	23.800		
16,700.00	7,730.00	14,708.00	7,827.07	131.27	122.02	91.07	-5,635.78	-1,194.83	5,692.08	5,452.76	239.33	23.784		
16,800.00	7,730.00	14,774.46	7,828.56	132.67	123.16	91.08	-5,702.21	-1,195.38	5,692.65	5,450.82	241.83	23.540		
16,900.00	7,730.00	14,878.38	7,829.14	134.09	124.94	91.09	-5,806.12	-1,196.80	5,693.69	5,448.41	245.27	23.214		
17,000.00	7,730.00	14,928.86	7,828.70	135.51	125.80	91.08	-5,856.59	-1,197.59	5,694.94	5,447.58	247.36	23.023		
17,100.00	7,730.00	14,976.00	7,828.84	136.95	126.61	91.09	-5,903.72	-1,198.80	5,697.15	5,447.81	249.34	22.849		
17,200.00	7,730.00	15,080.10	7,829.78	138.40	128.39	91.09	-6,007.76	-1,201.95	5,699.86	5,447.06	252.80	22.547		
17,300.00	7,730.00	17,300.00	7,829.55	139.85	166.66	91.09	-6,267.43	-1,205.25	5,700.39	5,406.34	294.05	19.386		
17,337.76	7,730.00	15,357.73	7,829.53	140.41	133.17	91.09	-6,285.35	-1,205.26	5,700.32	5,439.30	261.02	21.839		
17,400.00	7,730.00	15,379.74	7,829.77	141.32	133.54	91.09	-6,307.36	-1,205.43	5,700.62	5,438.53	262.09	21.750		
17,500.00	7,730.00	15,421.00	7,830.84	142.80	134.26	91.10	-6,348.60	-1,206.17	5,702.03	5,438.08	263.95	21.602		
17,600.00	7,730.00	15,525.58	7,834.38	144.28	136.06	91.14	-6,453.09	-1,208.52	5,704.01	5,436.56	267.45	21.327		
17,700.00	7,730.00	15,592.91	7,835.48	145.78	137.21	91.15	-6,520.39	-1,210.18	5,706.15	5,436.18	269.97	21.136		
17,800.00	7,730.00	15,753.75	7,838.92	147.28	139.99	91.18	-6,681.16	-1,213.12	5,707.51	5,432.55	274.95	20.758		
17,900.00	7,730.00	15,814.31	7,840.04	148.79	141.03	91.20	-6,741.71	-1,214.24	5,709.09	5,431.78	277.31	20.587		
18,000.00	7,730.00	16,108.25	7,842.60	150.31	146.12	91.22	-7,035.56	-1,214.77	5,708.12	5,422.43	285.70	19.980		
18,100.00	7,730.00	16,159.59	7,844.22	151.83	147.01	91.24	-7,086.88	-1,214.43	5,707.16	5,419.28	287.88	19.825		
18,172.95	7,730.00	16,200.63	7,845.49	152.95	147.72	91.25	-7,127.90	-1,214.42	5,706.95	5,417.40	289.55	19.710		
18,200.00	7,730.00	16,223.00	7,846.14	153.37	148.11	91.26	-7,150.26	-1,214.52	5,706.99	5,416.64	290.35	19.655		
18,300.00	7,730.00	16,276.03	7,847.14	154.90	149.03	91.27	-7,203.27	-1,215.00	5,707.54	5,415.00	292.54	19.510		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 177-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,400.00	7,730.00	16,345.63	7,847.13	156.45	150.23	91.27	-7,272.86	-1,216.09	5,708.76	5,413.61	295.14	19.342	
18,500.00	7,730.00	16,512.90	7,849.32	158.00	153.13	91.29	-7,440.09	-1,218.39	5,709.96	5,409.65	300.31	19.013	
18,600.00	7,730.00	16,654.85	7,855.10	159.55	155.59	91.35	-7,581.93	-1,218.78	5,710.05	5,405.22	304.83	18.732	
18,700.00	7,730.00	16,732.47	7,857.65	161.11	156.94	91.37	-7,659.51	-1,218.69	5,709.70	5,402.03	307.68	18.557	
18,800.00	7,730.00	16,877.21	7,860.62	162.68	159.46	91.40	-7,804.21	-1,218.49	5,709.29	5,397.03	312.26	18.284	
18,900.00	7,730.00	16,936.00	7,862.25	164.25	160.49	91.42	-7,862.98	-1,218.18	5,708.61	5,393.98	314.63	18.144	
18,950.07	7,730.00	16,978.05	7,863.13	165.04	161.22	91.43	-7,905.02	-1,218.14	5,708.45	5,392.31	316.14	18.057	
19,000.00	7,730.00	17,002.80	7,863.32	165.83	161.65	91.43	-7,929.77	-1,218.27	5,708.56	5,391.37	317.19	17.997	
19,100.00	7,730.00	17,227.07	7,868.18	167.41	165.55	91.48	-8,153.95	-1,217.93	5,708.39	5,384.55	323.83	17.628	
19,200.00	7,730.00	17,314.05	7,869.78	168.99	167.07	91.49	-8,240.90	-1,216.78	5,706.77	5,379.82	326.95	17.455	
19,300.00	7,730.00	17,440.44	7,868.00	170.58	169.28	91.48	-8,367.27	-1,215.24	5,705.21	5,374.16	331.05	17.234	
19,400.00	7,730.00	17,471.00	7,867.23	172.17	169.81	91.47	-8,397.81	-1,214.76	5,703.67	5,370.95	332.72	17.143	
19,430.54	7,730.00	17,471.00	7,867.23	172.66	169.81	91.47	-8,397.81	-1,214.76	5,703.52	5,370.55	332.97	17.129 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-54.43	787.25	-1,100.94	1,353.48					
100.00	100.00	89.97	89.97	0.13	0.15	-54.43	787.29	-1,100.95	1,353.48	1,353.20	0.28	4,765.465		
200.00	200.00	188.84	188.84	0.49	0.31	-54.43	787.41	-1,101.01	1,353.60	1,352.79	0.81	1,677.617		
300.00	300.00	287.70	287.70	0.85	0.48	-54.42	787.63	-1,101.10	1,353.80	1,352.47	1.33	1,018.128		
400.00	400.00	383.76	383.76	1.21	0.76	-54.41	788.01	-1,101.25	1,354.16	1,352.19	1.97	685.904 ES		
500.00	500.00	478.58	478.57	1.57	1.10	-54.39	788.81	-1,101.52	1,354.89	1,352.21	2.67	506.952		
600.00	599.98	573.37	573.35	1.92	1.44	-119.74	790.06	-1,101.91	1,356.86	1,353.49	3.37	403.059		
700.00	699.84	676.30	676.27	2.28	1.81	-119.82	791.68	-1,102.31	1,360.69	1,356.60	4.09	332.788		
800.00	799.45	764.78	764.74	2.64	2.13	-119.97	793.06	-1,102.94	1,366.53	1,361.77	4.77	286.700		
900.00	898.70	864.94	864.88	3.02	2.49	-120.23	795.09	-1,103.83	1,374.58	1,369.08	5.50	250.108		
1,000.00	997.47	971.82	971.73	3.41	2.87	-120.61	796.98	-1,104.35	1,383.97	1,377.71	6.26	220.964		
1,100.00	1,095.62	1,069.46	1,069.30	3.84	3.22	-120.94	800.56	-1,103.41	1,395.13	1,388.11	7.02	198.871		
1,200.00	1,193.06	1,180.49	1,180.20	4.29	3.62	-121.39	805.51	-1,101.31	1,407.90	1,400.06	7.84	179.637		
1,300.00	1,289.64	1,283.40	1,282.97	4.78	3.99	-121.86	810.13	-1,098.36	1,421.83	1,413.17	8.66	164.236		
1,400.00	1,385.27	1,369.91	1,369.27	5.32	4.30	-122.21	815.26	-1,095.35	1,438.05	1,428.60	9.45	152.178		
1,500.00	1,479.82	1,462.42	1,461.32	5.90	4.64	-122.56	823.32	-1,091.06	1,456.78	1,446.48	10.30	141.404		
1,600.00	1,573.17	1,557.52	1,555.61	6.53	5.00	-122.86	834.24	-1,085.25	1,477.72	1,466.52	11.21	131.838		
1,700.00	1,665.21	1,647.14	1,644.11	7.23	5.35	-123.08	846.72	-1,078.65	1,500.87	1,488.73	12.14	123.635		
1,800.00	1,755.84	1,719.03	1,714.97	7.98	5.64	-123.17	857.75	-1,073.64	1,527.06	1,514.03	13.04	117.148		
1,900.00	1,844.94	1,792.26	1,787.14	8.80	5.94	-123.27	869.45	-1,069.46	1,556.67	1,542.70	13.97	111.414		
2,000.00	1,932.39	1,863.33	1,857.19	9.68	6.23	-123.37	881.02	-1,066.32	1,589.59	1,574.67	14.93	106.471		
2,100.00	2,018.11	1,930.90	1,923.80	10.63	6.51	-123.44	892.19	-1,064.24	1,625.90	1,610.00	15.90	102.268		
2,200.00	2,101.97	1,996.76	1,988.73	11.65	6.78	-123.49	903.15	-1,063.23	1,665.68	1,648.80	16.88	98.663		
2,300.00	2,183.88	2,109.64	2,100.04	12.74	7.25	-124.14	921.80	-1,061.60	1,707.86	1,689.71	18.15	94.085		
2,400.00	2,263.74	2,222.95	2,211.56	13.90	7.73	-124.76	941.24	-1,056.64	1,750.08	1,730.61	19.47	89.884		
2,431.61	2,288.54	2,247.45	2,235.65	14.29	7.84	-124.81	945.54	-1,055.47	1,763.89	1,744.06	19.83	88.942		
2,500.00	2,341.97	2,303.76	2,291.02	15.13	8.08	-125.51	955.48	-1,052.81	1,794.23	1,773.60	20.63	86.963		
2,600.00	2,420.08	2,385.09	2,371.01	16.37	8.44	-126.50	969.67	-1,049.09	1,839.08	1,817.29	21.79	84.398		
2,700.00	2,498.20	2,464.35	2,449.07	17.63	8.78	-127.43	983.05	-1,045.84	1,884.64	1,861.71	22.93	82.206		
2,800.00	2,576.32	2,545.39	2,528.92	18.89	9.13	-128.36	996.50	-1,042.75	1,930.82	1,906.76	24.06	80.252		
2,900.00	2,654.43	2,717.00	2,698.03	20.17	9.88	-130.21	1,024.03	-1,033.42	1,976.42	1,950.70	25.72	76.831		
3,000.00	2,732.55	2,787.04	2,766.75	21.45	10.19	-130.87	1,036.06	-1,027.23	2,019.69	1,992.89	26.80	75.365		
3,100.00	2,810.67	2,838.28	2,817.09	22.74	10.42	-131.35	1,044.95	-1,023.69	2,064.79	2,037.06	27.74	74.435		
3,200.00	2,888.78	2,904.78	2,882.57	24.03	10.72	-131.98	1,055.98	-1,020.07	2,111.27	2,082.52	28.75	73.436		
3,300.00	2,966.90	2,977.12	2,953.98	25.33	11.03	-132.67	1,067.07	-1,016.94	2,158.71	2,128.94	29.77	72.514		
3,400.00	3,045.02	3,127.03	3,102.42	26.63	11.66	-134.12	1,086.80	-1,010.03	2,206.11	2,174.87	31.23	70.634		
3,500.00	3,123.13	3,234.41	3,208.50	27.94	12.12	-135.07	1,101.14	-1,001.62	2,250.85	2,218.41	32.44	69.387		
3,600.00	3,201.25	3,298.74	3,271.92	29.24	12.40	-135.59	1,110.78	-996.73	2,296.54	2,263.15	33.39	68.785		
3,700.00	3,279.37	3,367.16	3,339.50	30.55	12.69	-136.15	1,120.44	-992.20	2,343.18	2,308.84	34.34	68.232		
3,800.00	3,357.49	3,463.27	3,434.32	31.86	13.11	-136.89	1,134.68	-985.80	2,390.19	2,354.73	35.47	67.391		
3,900.00	3,435.60	3,527.90	3,498.07	33.18	13.39	-137.37	1,144.50	-981.60	2,437.64	2,401.26	36.38	66.998		
4,000.00	3,513.72	3,595.44	3,564.83	34.49	13.68	-137.87	1,154.01	-977.84	2,485.92	2,448.63	37.29	66.659		
4,100.00	3,591.84	3,718.56	3,686.80	35.81	14.20	-138.80	1,169.48	-971.29	2,534.58	2,496.05	38.54	65.773		
4,200.00	3,669.95	3,777.99	3,745.59	37.12	14.45	-139.22	1,177.27	-967.62	2,582.71	2,543.34	39.37	65.599		
4,300.00	3,748.07	3,838.11	3,804.92	38.44	14.72	-139.61	1,186.47	-964.30	2,631.89	2,591.68	40.21	65.448		
4,400.00	3,826.19	3,899.00	3,864.86	39.76	14.99	-139.97	1,196.72	-961.29	2,681.95	2,640.89	41.06	65.314		
4,500.00	3,904.30	3,951.18	3,916.27	41.08	15.22	-140.28	1,205.40	-959.25	2,733.01	2,691.18	41.83	65.337		
4,600.00	3,982.42	4,018.28	3,982.61	42.40	15.51	-140.69	1,215.34	-957.64	2,785.18	2,742.50	42.68	65.253		
4,700.00	4,060.54	4,129.32	4,092.38	43.72	15.98	-141.35	1,231.75	-954.32	2,837.07	2,793.22	43.86	64.688		
4,800.00	4,138.66	4,800.00	4,204.44	45.05	19.00	-141.94	1,251.09	-949.22	2,888.06	2,840.47	47.59	60.687		
4,900.00	4,216.77	4,318.42	4,278.49	46.37	16.83	-142.31	1,264.03	-945.44	2,938.84	2,892.81	46.02	63.858		
5,000.00	4,294.89	4,398.06	4,356.82	47.69	17.19	-142.68	1,277.99	-942.04	2,990.34	2,943.35	46.99	63.639		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,483.90	4,441.22	49.02	17.58	-143.07	1,293.10	-938.08	3,041.68	2,993.68	48.00	63.366		
5,200.00	4,451.12	4,536.79	4,493.32	50.34	17.82	-143.31	1,301.98	-936.02	3,093.66	3,044.93	48.74	63.476		
5,300.00	4,529.24	4,683.80	4,638.39	51.67	18.47	-143.99	1,325.05	-930.18	3,145.79	3,095.60	50.19	62.681		
5,400.00	4,607.36	4,873.60	4,825.32	52.99	19.32	-144.81	1,355.17	-917.31	3,195.70	3,143.75	51.95	61.515		
5,500.00	4,685.47	4,986.50	4,935.78	54.32	19.85	-145.20	1,375.80	-906.36	3,243.04	3,189.86	53.18	60.980		
5,600.00	4,763.59	5,051.75	4,999.67	55.64	20.16	-145.43	1,387.51	-900.25	3,290.85	3,236.81	54.04	60.895		
5,700.00	4,841.71	5,110.61	5,057.47	56.97	20.43	-145.65	1,397.48	-895.21	3,339.36	3,284.53	54.83	60.900		
5,800.00	4,919.83	5,163.55	5,109.61	58.30	20.67	-145.85	1,405.71	-891.23	3,388.74	3,333.18	55.56	60.996		
5,900.00	4,997.94	5,313.00	5,256.95	59.62	21.33	-146.43	1,427.42	-878.84	3,437.25	3,380.28	56.97	60.331		
6,000.00	5,076.06	5,374.23	5,317.35	60.95	21.60	-146.67	1,436.01	-873.70	3,485.96	3,428.22	57.74	60.371		
6,100.00	5,154.18	5,447.00	5,389.01	62.28	21.93	-146.93	1,447.22	-867.83	3,535.13	3,476.53	58.60	60.324		
6,200.00	5,232.29	5,508.19	5,449.20	63.61	22.21	-147.13	1,457.18	-863.18	3,584.82	3,525.44	59.38	60.371		
6,300.00	5,310.41	5,567.66	5,507.79	64.93	22.47	-147.33	1,466.54	-859.13	3,635.21	3,575.08	60.13	60.455		
6,400.00	5,388.53	5,625.00	5,564.43	66.26	22.73	-147.53	1,474.77	-855.63	3,686.25	3,625.40	60.85	60.584		
6,500.00	5,466.64	5,686.13	5,624.81	67.59	23.00	-147.74	1,483.75	-852.32	3,737.92	3,676.34	61.59	60.693		
6,600.00	5,544.76	5,737.71	5,675.63	68.92	23.22	-147.90	1,492.22	-849.86	3,790.28	3,728.03	62.26	60.881		
6,700.00	5,622.88	5,782.55	5,719.86	70.25	23.42	-148.04	1,499.37	-848.17	3,843.51	3,780.65	62.86	61.143		
6,800.00	5,701.00	5,851.80	5,788.21	71.58	23.73	-148.25	1,510.26	-846.17	3,897.49	3,833.83	63.67	61.217		
6,900.00	5,779.11	5,922.49	5,857.79	72.91	24.04	-148.45	1,522.60	-844.12	3,951.58	3,887.09	64.50	61.268		
7,000.00	5,857.23	6,119.45	6,052.33	74.23	24.90	-149.04	1,552.19	-836.58	4,005.09	3,938.75	66.34	60.370		
7,100.00	5,935.35	6,174.41	6,106.69	75.56	25.14	-149.21	1,559.81	-833.79	4,057.41	3,990.41	67.01	60.551		
7,200.00	6,013.46	6,221.60	6,153.43	76.89	25.33	-149.36	1,566.03	-831.79	4,110.48	4,042.89	67.60	60.807		
7,300.00	6,091.58	6,288.23	6,219.51	78.22	25.61	-149.58	1,574.27	-829.51	4,164.26	4,095.93	68.33	60.942		
7,400.00	6,169.70	6,368.90	6,299.47	79.55	25.95	-149.83	1,584.56	-826.72	4,218.11	4,148.93	69.18	60.975		
7,500.00	6,247.81	6,459.40	6,388.94	80.88	26.34	-150.07	1,597.85	-823.80	4,272.21	4,202.08	70.13	60.915		
7,600.00	6,325.93	7,600.00	6,531.81	82.21	31.52	-150.41	1,622.02	-817.18	4,325.03	4,248.97	76.07	56.859		
7,700.00	6,404.05	6,659.79	6,586.27	83.54	27.24	-150.53	1,631.42	-814.46	4,377.86	4,305.58	72.28	60.564		
7,800.00	6,482.17	7,140.00	7,060.46	84.87	29.04	-152.22	1,663.30	-770.10	4,425.22	4,349.76	75.46	58.643		
7,900.00	6,560.28	7,140.00	7,060.46	86.20	29.04	-152.22	1,663.30	-770.10	4,471.95	4,396.19	75.76	59.024		
8,000.00	6,638.40	7,140.00	7,060.46	87.53	29.04	-152.22	1,663.30	-770.10	4,520.41	4,444.37	76.04	59.450		
8,100.00	6,716.52	7,185.56	7,105.07	88.86	29.12	-152.51	1,655.92	-764.63	4,568.88	4,492.53	76.36	59.837		
8,200.00	6,794.63	7,229.00	7,147.18	90.20	29.19	-152.83	1,645.66	-762.08	4,620.69	4,544.07	76.62	60.305		
8,300.00	6,872.75	7,229.00	7,147.18	91.53	29.19	-152.83	1,645.66	-762.08	4,672.58	4,595.75	76.83	60.814		
8,400.00	6,950.87	7,229.00	7,147.18	92.86	29.19	-152.83	1,645.66	-762.08	4,726.02	4,649.00	77.02	61.360		
8,500.00	7,028.98	7,229.00	7,147.18	94.19	29.19	-152.83	1,645.66	-762.08	4,780.96	4,703.77	77.18	61.942		
8,600.00	7,107.10	7,229.00	7,147.18	95.52	29.19	-152.83	1,645.66	-762.08	4,837.33	4,760.01	77.33	62.557		
8,647.91	7,144.53	7,229.00	7,147.18	96.16	29.19	-152.83	1,645.66	-762.08	4,864.84	4,787.45	77.39	62.864		
8,650.00	7,146.16	7,229.00	7,147.18	96.18	29.19	-153.23	1,645.66	-762.08	4,866.05	4,788.66	77.39	62.878		
8,700.00	7,185.66	7,229.00	7,147.18	96.84	29.19	-162.99	1,645.66	-762.08	4,895.31	4,817.86	77.44	63.212		
8,750.00	7,225.78	7,229.00	7,147.18	97.47	29.19	-173.32	1,645.66	-762.08	4,925.11	4,847.63	77.48	63.565		
8,800.00	7,266.21	7,265.76	7,182.29	98.08	29.22	175.92	1,634.81	-761.50	4,954.58	4,877.05	77.53	63.909		
8,850.00	7,306.63	7,273.78	7,189.89	98.64	29.22	165.34	1,632.22	-761.50	4,984.46	4,906.92	77.54	64.285		
8,900.00	7,346.75	7,281.94	7,197.58	99.17	29.23	155.08	1,629.50	-761.55	5,014.13	4,936.60	77.53	64.672		
8,950.00	7,386.25	7,318.00	7,231.21	99.64	29.25	145.39	1,616.52	-762.32	5,043.74	4,966.23	77.51	65.073		
9,000.00	7,424.84	7,318.00	7,231.21	100.06	29.25	136.48	1,616.52	-762.32	5,072.12	4,994.64	77.48	65.465		
9,050.00	7,462.22	7,318.00	7,231.21	100.42	29.25	128.38	1,616.52	-762.32	5,099.70	5,022.27	77.44	65.857		
9,100.00	7,498.11	7,318.00	7,231.21	100.74	29.25	121.14	1,616.52	-762.32	5,126.30	5,048.91	77.39	66.240		
9,150.00	7,532.24	7,318.00	7,231.21	100.99	29.25	114.72	1,616.52	-762.32	5,151.72	5,074.38	77.34	66.610		
9,200.00	7,564.34	7,345.09	7,256.08	101.19	29.25	109.23	1,605.81	-763.33	5,175.62	5,098.34	77.28	66.973		
9,250.00	7,594.17	7,361.45	7,270.94	101.34	29.26	104.44	1,599.01	-764.02	5,197.91	5,120.68	77.23	67.305		
9,300.00	7,621.50	7,377.67	7,285.55	101.45	29.26	100.34	1,592.02	-764.76	5,218.42	5,141.23	77.19	67.605		
9,350.00	7,646.13	7,408.00	7,312.55	101.50	29.26	96.96	1,578.29	-766.32	5,237.07	5,159.92	77.15	67.886		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	9,400.00	7,432.55	101.51	28.74	94.82	1,494.44	-771.50	5,253.46	5,178.10	75.36	69.713		
9,450.00	7,686.55	7,586.00	7,456.15	101.48	29.15	92.58	1,474.48	-772.07	5,266.71	5,190.15	76.56	68.792		
9,500.00	7,702.04	7,586.00	7,456.15	101.42	29.15	90.66	1,474.48	-772.07	5,277.83	5,201.20	76.63	68.875		
9,550.00	7,714.20	7,620.99	7,479.93	101.33	29.11	89.37	1,448.82	-772.48	5,286.23	5,209.72	76.51	69.091		
9,600.00	7,722.96	7,629.22	7,485.28	101.20	29.09	88.37	1,442.58	-772.71	5,292.75	5,216.16	76.59	69.106		
9,650.00	7,728.24	7,637.27	7,490.42	101.06	29.08	87.77	1,436.39	-772.97	5,297.00	5,220.30	76.70	69.063		
9,699.97	7,730.00	7,675.00	7,513.28	100.90	29.03	87.75	1,406.45	-774.86	5,299.39	5,222.76	76.63	69.155		
9,800.00	7,730.00	7,675.00	7,513.28	100.56	29.03	87.75	1,406.45	-774.86	5,301.52	5,224.44	77.07	68.785		
9,900.00	7,730.00	8,181.98	7,694.29	100.24	28.83	89.71	938.26	-774.92	5,297.46	5,223.55	73.91	71.673		
10,000.00	7,730.00	8,262.36	7,702.02	99.93	28.97	89.79	858.34	-772.32	5,293.82	5,219.88	73.95	71.591		
10,100.00	7,730.00	8,498.40	7,698.48	99.64	29.81	89.76	622.62	-761.40	5,288.62	5,215.08	73.54	71.915		
10,200.00	7,730.00	8,566.00	7,698.30	99.36	30.16	89.75	555.11	-757.95	5,283.08	5,209.14	73.94	71.448		
10,300.00	7,730.00	8,566.00	7,698.30	99.09	30.16	89.75	555.11	-757.95	5,278.56	5,204.08	74.48	70.873		
10,400.00	7,730.00	8,626.57	7,698.66	98.84	30.53	89.76	494.58	-755.85	5,274.99	5,199.98	75.01	70.323		
10,500.00	7,730.00	8,690.52	7,699.89	98.61	30.95	89.77	430.65	-754.68	5,272.71	5,197.09	75.62	69.730		
10,600.00	7,730.00	8,744.00	7,701.37	98.39	31.32	89.79	377.20	-753.62	5,270.68	5,194.40	76.28	69.099		
10,700.00	7,730.00	8,801.03	7,703.32	98.18	31.76	89.81	320.21	-752.98	5,269.47	5,192.45	77.02	68.416		
10,716.98	7,730.00	8,806.86	7,703.54	98.14	31.80	89.81	314.38	-752.98	5,269.41	5,192.27	77.15	68.303		
10,800.00	7,730.00	8,833.00	7,704.58	97.99	32.00	89.82	288.26	-753.14	5,269.65	5,191.91	77.74	67.784		
10,900.00	7,730.00	8,875.02	7,706.12	97.81	32.35	89.84	246.28	-753.85	5,271.02	5,192.49	78.54	67.115		
11,000.00	7,730.00	8,922.00	7,707.41	97.64	32.74	89.85	199.34	-755.25	5,273.56	5,194.19	79.37	66.441		
11,100.00	7,730.00	9,002.48	7,709.52	97.50	33.45	89.88	118.94	-758.20	5,276.85	5,196.45	80.40	65.630		
11,200.00	7,730.00	9,268.22	7,713.19	97.36	36.09	89.92	-146.71	-763.27	5,278.10	5,195.38	82.73	63.800		
11,300.00	7,730.00	9,377.01	7,713.18	97.24	37.30	89.92	-255.49	-763.75	5,278.21	5,193.88	84.33	62.589		
11,400.00	7,730.00	11,400.00	7,709.46	97.14	61.47	89.87	-427.69	-762.81	5,277.17	5,168.45	108.72	48.539		
11,500.00	7,730.00	9,594.85	7,708.40	97.06	39.88	89.86	-473.27	-762.43	5,276.19	5,188.29	87.90	60.023		
11,526.07	7,730.00	9,604.09	7,708.21	97.03	39.99	89.86	-482.51	-762.45	5,276.15	5,187.95	88.20	59.819		
11,600.00	7,730.00	9,634.00	7,707.61	96.98	40.36	89.85	-512.41	-762.70	5,276.49	5,187.41	89.08	59.236		
11,700.00	7,730.00	9,814.17	7,704.75	96.93	42.66	89.82	-692.55	-763.42	5,276.55	5,184.60	91.95	57.387		
11,800.00	7,730.00	9,901.00	7,703.92	96.90	43.81	89.81	-779.38	-762.74	5,275.49	5,181.66	93.83	56.223		
11,853.59	7,730.00	9,931.52	7,703.69	96.88	44.22	89.81	-809.89	-762.60	5,275.20	5,180.55	94.66	55.729		
11,900.00	7,730.00	9,943.99	7,703.60	96.88	44.39	89.81	-822.37	-762.68	5,275.36	5,180.17	95.18	55.424		
12,000.00	7,730.00	9,990.00	7,703.26	96.88	45.00	89.81	-868.36	-763.68	5,276.82	5,180.24	96.59	54.633		
12,100.00	7,730.00	10,029.07	7,702.93	96.90	45.54	89.80	-907.42	-764.95	5,279.33	5,181.42	97.91	53.918		
12,200.00	7,730.00	12,200.00	7,707.38	96.94	76.76	89.85	-1,191.57	-769.30	5,280.72	5,150.49	130.23	40.549		
12,300.00	7,730.00	10,483.64	7,712.72	97.00	52.02	89.91	-1,361.74	-766.74	5,278.50	5,171.86	106.64	49.496		
12,400.00	7,730.00	10,587.21	7,713.40	97.08	53.56	89.92	-1,465.30	-765.30	5,276.79	5,167.56	109.23	48.309		
12,500.00	7,730.00	10,651.39	7,713.38	97.18	54.52	89.92	-1,529.47	-764.23	5,274.88	5,163.72	111.16	47.451		
12,600.00	7,730.00	10,704.00	7,713.49	97.31	55.31	89.92	-1,582.08	-764.04	5,274.07	5,161.16	112.91	46.711		
12,700.00	7,730.00	10,814.80	7,714.16	97.46	57.00	89.93	-1,692.87	-764.13	5,273.84	5,158.10	115.74	45.565		
12,800.00	7,730.00	10,919.09	7,715.68	97.64	58.60	89.94	-1,797.14	-763.20	5,272.59	5,154.08	118.51	44.489		
12,870.49	7,730.00	10,948.89	7,716.03	97.79	59.06	89.95	-1,826.94	-763.19	5,272.32	5,152.67	119.65	44.064		
12,900.00	7,730.00	10,971.00	7,716.22	97.85	59.40	89.95	-1,849.05	-763.33	5,272.39	5,152.08	120.31	43.823		
13,000.00	7,730.00	13,000.00	7,717.08	98.09	90.86	89.96	-1,946.50	-763.84	5,272.58	5,119.62	152.96	34.470		
13,100.00	7,730.00	11,119.04	7,717.09	98.35	61.70	89.96	-1,997.09	-764.27	5,273.16	5,148.36	124.80	42.253		
13,200.00	7,730.00	13,200.00	7,715.69	98.65	94.29	89.94	-2,098.05	-765.84	5,274.38	5,115.74	158.63	33.249		
13,300.00	7,730.00	11,290.11	7,714.88	98.98	64.38	89.93	-2,168.12	-766.82	5,275.54	5,145.72	129.82	40.638		
13,400.00	7,730.00	11,370.87	7,714.46	99.34	65.65	89.93	-2,248.86	-768.88	5,277.68	5,145.42	132.26	39.903		
13,500.00	7,730.00	11,506.00	7,714.74	99.74	67.79	89.93	-2,383.96	-771.00	5,278.74	5,142.86	135.88	38.847		
13,600.00	7,730.00	11,563.11	7,715.22	100.17	68.70	89.94	-2,441.07	-771.93	5,280.25	5,142.37	137.88	38.296		
13,700.00	7,730.00	11,616.78	7,715.77	100.65	69.56	89.94	-2,494.71	-773.65	5,283.00	5,143.19	139.80	37.789		
13,800.00	7,730.00	11,786.19	7,717.98	101.16	72.28	89.97	-2,664.02	-778.49	5,285.59	5,141.31	144.29	36.633		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	12,006.95	7,716.74	101.71	75.87	89.95	-2,884.77	-779.41	5,285.04	5,135.06	149.98	35.239		
13,989.39	7,730.00	12,067.99	7,715.30	102.23	76.86	89.94	-2,945.79	-779.47	5,284.81	5,132.76	152.05	34.757		
14,000.00	7,730.00	12,075.78	7,715.12	102.30	76.99	89.94	-2,953.58	-779.50	5,284.81	5,132.50	152.31	34.698		
14,100.00	7,730.00	12,172.38	7,713.80	102.93	78.58	89.92	-3,050.17	-780.06	5,285.06	5,129.77	155.28	34.035		
14,200.00	7,730.00	12,429.02	7,719.66	103.60	82.83	89.99	-3,306.69	-776.77	5,283.03	5,121.02	162.02	32.608		
14,300.00	7,730.00	12,486.00	7,721.19	104.32	83.78	90.00	-3,363.64	-775.71	5,280.72	5,116.57	164.16	32.168		
14,400.00	7,730.00	12,538.09	7,722.58	105.07	84.65	90.02	-3,415.71	-775.18	5,279.27	5,113.08	166.18	31.768		
14,500.00	7,730.00	12,596.23	7,723.92	105.86	85.62	90.03	-3,473.83	-774.90	5,278.49	5,110.14	168.34	31.355		
14,532.17	7,730.00	12,610.98	7,724.18	106.13	85.87	90.03	-3,488.59	-774.93	5,278.43	5,109.49	168.95	31.243		
14,600.00	7,730.00	12,642.11	7,724.56	106.70	86.38	90.04	-3,519.71	-775.14	5,278.67	5,108.47	170.20	31.014		
14,700.00	7,730.00	12,881.62	7,726.11	107.57	90.39	90.06	-3,759.18	-774.00	5,277.59	5,100.87	176.72	29.864		
14,800.00	7,730.00	12,931.00	7,727.11	108.48	91.22	90.07	-3,808.55	-773.75	5,276.43	5,097.73	178.70	29.527		
14,852.12	7,730.00	12,931.00	7,727.11	108.97	91.22	90.07	-3,808.55	-773.75	5,276.17	5,097.07	179.10	29.459		
14,900.00	7,730.00	12,931.00	7,727.11	109.43	91.22	90.07	-3,808.55	-773.75	5,276.39	5,096.93	179.46	29.402		
15,000.00	7,730.00	12,989.98	7,728.44	110.42	92.21	90.08	-3,867.51	-774.52	5,277.50	5,095.85	181.64	29.054		
15,100.00	7,730.00	13,044.83	7,729.50	111.43	93.12	90.09	-3,922.33	-775.93	5,279.68	5,095.96	183.72	28.738		
15,200.00	7,730.00	13,128.74	7,730.53	112.49	94.52	90.10	-4,006.19	-778.52	5,282.41	5,095.90	186.51	28.322		
15,300.00	7,730.00	13,300.00	7,731.72	113.57	131.13	90.12	-4,234.37	-783.27	5,284.30	5,058.57	225.74	23.409		
15,400.00	7,730.00	13,424.33	7,732.28	114.68	99.49	90.12	-4,301.71	-783.74	5,284.79	5,089.41	195.37	27.050		
15,500.00	7,730.00	13,466.00	7,733.32	115.82	100.19	90.13	-4,343.36	-784.57	5,286.40	5,089.26	197.14	26.816		
15,600.00	7,730.00	13,601.77	7,733.35	116.99	102.48	90.13	-4,479.08	-787.69	5,288.42	5,087.12	201.30	26.271		
15,700.00	7,730.00	13,854.72	7,728.38	118.19	106.78	90.08	-4,731.96	-787.61	5,287.44	5,079.02	208.43	25.369		
15,800.00	7,730.00	13,911.00	7,727.44	119.41	107.74	90.07	-4,788.23	-787.51	5,286.71	5,076.11	210.61	25.102		
15,831.84	7,730.00	13,911.00	7,727.44	119.80	107.74	90.07	-4,788.23	-787.51	5,286.62	5,075.77	210.85	25.073		
15,900.00	7,730.00	13,911.00	7,727.44	120.65	107.74	90.07	-4,788.23	-787.51	5,287.06	5,075.72	211.33	25.018		
16,000.00	7,730.00	13,968.47	7,726.43	121.91	108.72	90.06	-4,845.68	-788.43	5,288.50	5,074.99	213.51	24.770		
16,100.00	7,730.00	14,042.74	7,725.03	123.20	109.97	90.04	-4,919.90	-790.68	5,291.10	5,074.99	216.11	24.483		
16,200.00	7,730.00	14,251.21	7,721.83	124.50	113.52	90.01	-5,128.31	-794.44	5,292.46	5,070.23	222.23	23.815		
16,300.00	7,730.00	14,458.92	7,720.45	125.82	117.07	89.99	-5,336.01	-793.87	5,291.72	5,063.39	228.33	23.176		
16,400.00	7,730.00	14,487.00	7,720.54	127.16	117.56	90.00	-5,364.09	-793.83	5,290.99	5,061.19	229.80	23.024		
16,412.83	7,730.00	14,491.86	7,720.58	127.34	117.64	90.00	-5,368.95	-793.85	5,290.98	5,060.96	230.02	23.002		
16,500.00	7,730.00	14,535.00	7,721.09	128.52	118.38	90.00	-5,412.08	-794.28	5,291.46	5,059.68	231.78	22.830		
16,600.00	7,730.00	14,636.83	7,722.60	129.89	120.12	90.02	-5,513.89	-795.72	5,292.53	5,057.37	235.16	22.506		
16,700.00	7,730.00	14,703.47	7,724.31	131.27	121.26	90.04	-5,580.50	-796.75	5,293.71	5,056.09	237.62	22.278		
16,800.00	7,730.00	14,802.00	7,727.99	132.67	122.95	90.08	-5,678.95	-798.28	5,294.93	5,054.00	240.94	21.976		
16,900.00	7,730.00	14,853.56	7,730.12	134.09	123.83	90.10	-5,730.46	-799.29	5,296.70	5,053.72	242.98	21.799		
17,000.00	7,730.00	14,896.85	7,732.09	135.51	124.57	90.12	-5,773.68	-800.73	5,299.65	5,054.87	244.78	21.651		
17,100.00	7,730.00	15,102.41	7,742.09	136.95	128.10	90.23	-5,978.92	-806.22	5,301.90	5,050.85	251.05	21.119		
17,200.00	7,730.00	15,159.00	7,744.76	138.40	129.07	90.26	-6,035.43	-807.20	5,303.51	5,050.27	253.23	20.943		
17,300.00	7,730.00	15,219.58	7,747.29	139.85	130.11	90.28	-6,095.94	-808.72	5,305.88	5,050.36	255.52	20.765		
17,400.00	7,730.00	17,400.00	7,750.41	141.32	167.47	90.32	-6,186.83	-811.98	5,309.13	5,014.66	294.47	18.030		
17,500.00	7,730.00	15,395.26	7,753.10	142.80	133.12	90.35	-6,271.42	-814.86	5,312.25	5,050.67	261.58	20.308		
17,600.00	7,730.00	15,460.72	7,754.46	144.28	134.24	90.36	-6,336.80	-817.62	5,316.11	5,052.13	263.98	20.138		
17,700.00	7,730.00	15,600.53	7,756.45	145.78	136.63	90.38	-6,476.46	-823.72	5,320.26	5,051.79	268.47	19.817		
17,800.00	7,730.00	17,800.00	7,758.74	147.28	174.62	90.41	-6,733.72	-828.77	5,321.46	5,011.71	309.75	17.180		
17,900.00	7,730.00	17,900.00	7,750.80	148.79	176.67	90.32	-7,083.83	-823.90	5,320.18	5,004.55	315.63	16.856		
18,000.00	7,730.00	16,263.26	7,749.87	150.31	148.10	90.31	-7,138.86	-821.71	5,316.06	5,027.69	288.37	18.435		
18,100.00	7,730.00	16,312.00	7,749.86	151.83	148.95	90.31	-7,187.59	-820.73	5,313.40	5,022.94	290.46	18.293		
18,200.00	7,730.00	16,312.00	7,749.86	153.37	148.95	90.31	-7,187.59	-820.73	5,311.87	5,020.64	291.23	18.239		
18,273.15	7,730.00	16,341.91	7,750.12	154.49	149.47	90.31	-7,217.50	-820.67	5,311.63	5,019.08	292.56	18.156		
18,300.00	7,730.00	16,349.25	7,750.21	154.90	149.60	90.32	-7,224.83	-820.72	5,311.74	5,018.80	292.94	18.132		
18,400.00	7,730.00	16,401.00	7,751.02	156.45	150.49	90.32	-7,276.56	-821.87	5,313.23	5,018.21	295.02	18.010		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,500.00	7,730.00	16,415.32	7,751.30	158.00	150.74	90.33	-7,290.87	-822.37	5,315.65	5,019.64	296.01	17.958	
18,600.00	7,730.00	16,573.23	7,755.30	159.55	153.46	90.37	-7,448.66	-827.04	5,318.33	5,017.26	301.07	17.665	
18,700.00	7,730.00	16,668.00	7,758.81	161.11	155.10	90.41	-7,543.35	-828.87	5,319.97	5,015.63	304.34	17.480	
18,800.00	7,730.00	16,728.05	7,761.18	162.68	156.14	90.43	-7,603.33	-830.28	5,322.20	5,015.57	306.63	17.357	
18,900.00	7,730.00	16,785.40	7,763.36	164.25	157.13	90.46	-7,660.60	-832.45	5,325.58	5,016.77	308.81	17.245	
19,000.00	7,730.00	16,900.02	7,767.81	165.83	159.11	90.50	-7,775.05	-836.93	5,329.20	5,016.54	312.66	17.045	
19,100.00	7,730.00	16,998.64	7,772.37	167.41	160.81	90.55	-7,873.50	-840.50	5,332.52	5,016.48	316.05	16.873	
19,200.00	7,730.00	17,083.99	7,774.30	168.99	162.29	90.57	-7,958.76	-843.81	5,336.09	5,017.05	319.04	16.725	
19,300.00	7,730.00	17,203.28	7,775.81	170.58	164.34	90.59	-8,077.94	-848.50	5,339.72	5,016.70	323.02	16.531	
19,400.00	7,730.00	17,362.68	7,778.49	172.17	167.10	90.62	-8,237.25	-853.34	5,342.39	5,014.23	328.16	16.280	
19,430.54	7,730.00	17,405.49	7,779.49	172.66	167.84	90.63	-8,280.03	-854.38	5,343.04	5,013.48	329.56	16.213 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	318.00	317.99	0.00	0.00	-53.26	785.71	-1,052.46	1,353.49					
100.00	100.00	318.00	317.99	0.13	0.00	-53.26	785.71	-1,052.46	1,332.87	1,332.45	0.41	3,222.802		
200.00	200.00	318.00	317.99	0.49	0.00	-53.26	785.71	-1,052.46	1,319.52	1,318.98	0.54	2,449.319		
300.00	300.00	318.00	317.99	0.85	0.00	-53.26	785.71	-1,052.46	1,313.67	1,312.82	0.85	1,540.557		
326.93	326.93	318.00	317.99	0.95	0.00	-53.26	785.71	-1,052.46	1,313.39	1,312.45	0.95	1,385.260 CC		
400.00	400.00	389.32	389.31	1.21	0.13	-53.30	785.05	-1,053.13	1,313.54	1,312.20	1.34	981.615		
500.00	500.00	492.10	492.08	1.57	0.31	-53.35	784.06	-1,053.89	1,313.56	1,311.68	1.88	698.258		
505.59	505.59	497.85	497.82	1.59	0.32	-118.71	784.01	-1,053.93	1,313.56	1,311.65	1.91	687.250 ES		
600.00	599.98	594.85	594.82	1.92	0.50	-118.81	783.05	-1,054.41	1,314.22	1,311.80	2.42	543.165		
700.00	699.84	680.63	680.59	2.28	0.81	-118.89	783.93	-1,054.10	1,317.05	1,313.97	3.08	427.271		
800.00	799.45	770.43	770.28	2.64	1.12	-118.91	787.97	-1,052.42	1,322.44	1,318.69	3.75	352.417		
900.00	898.70	862.86	862.33	3.02	1.46	-118.85	795.48	-1,048.96	1,330.15	1,325.69	4.46	298.330		
1,000.00	997.47	950.81	949.60	3.41	1.79	-118.73	805.41	-1,044.36	1,340.21	1,335.03	5.18	258.795		
1,100.00	1,095.62	1,038.71	1,036.57	3.84	2.14	-118.61	817.18	-1,039.50	1,352.92	1,346.98	5.94	227.950		
1,200.00	1,193.06	1,134.66	1,131.20	4.29	2.54	-118.50	831.74	-1,033.43	1,367.71	1,360.94	6.76	202.247		
1,300.00	1,289.64	1,228.41	1,223.61	4.78	2.94	-118.46	846.45	-1,027.45	1,384.42	1,376.80	7.62	181.721		
1,400.00	1,385.27	1,344.02	1,337.59	5.32	3.45	-118.60	864.35	-1,020.17	1,402.83	1,394.22	8.61	162.939		
1,500.00	1,479.82	1,443.54	1,435.65	5.90	3.88	-118.76	879.45	-1,012.47	1,421.57	1,411.99	9.57	148.533		
1,600.00	1,573.17	1,524.19	1,515.03	6.53	4.24	-118.85	892.34	-1,006.45	1,442.75	1,432.26	10.49	137.570		
1,700.00	1,665.21	1,634.05	1,623.00	7.23	4.74	-119.17	910.89	-998.12	1,466.15	1,454.56	11.59	126.490		
1,800.00	1,755.84	1,743.38	1,730.64	7.98	5.24	-119.61	927.72	-988.99	1,489.95	1,477.22	12.73	117.054		
1,900.00	1,844.94	1,819.63	1,805.79	8.80	5.58	-119.85	939.17	-983.10	1,516.07	1,502.33	13.74	110.349		
2,000.00	1,932.39	1,891.46	1,876.60	9.68	5.90	-120.06	950.30	-978.42	1,545.40	1,530.64	14.76	104.710		
2,100.00	2,018.11	2,016.21	1,999.58	10.63	6.45	-120.88	969.55	-970.19	1,576.87	1,560.79	16.09	98.014		
2,200.00	2,101.97	2,132.36	2,113.95	11.65	6.98	-121.66	986.55	-959.33	1,607.78	1,590.36	17.42	92.313		
2,300.00	2,183.88	2,204.96	2,185.36	12.74	7.31	-121.93	997.69	-952.39	1,641.27	1,622.71	18.56	88.452		
2,400.00	2,263.74	2,270.77	2,250.09	13.90	7.61	-122.10	1,008.20	-946.83	1,678.19	1,658.51	19.68	85.269		
2,431.61	2,288.54	2,291.95	2,270.92	14.29	7.71	-122.15	1,011.66	-945.20	1,690.57	1,670.53	20.04	84.347		
2,500.00	2,341.97	2,337.41	2,315.62	15.13	7.92	-122.76	1,019.21	-941.90	1,718.09	1,697.27	20.82	82.520		
2,600.00	2,420.08	2,404.33	2,381.44	16.37	8.22	-123.64	1,030.54	-937.62	1,759.63	1,737.68	21.95	80.178		
2,700.00	2,498.20	2,475.47	2,451.45	17.63	8.55	-124.54	1,042.61	-933.83	1,802.60	1,779.52	23.08	78.103		
2,800.00	2,576.32	2,562.70	2,537.37	18.89	8.94	-125.63	1,057.04	-929.51	1,846.29	1,822.00	24.30	75.993		
2,900.00	2,654.43	2,631.86	2,605.63	20.17	9.24	-126.48	1,067.74	-926.60	1,890.79	1,865.42	25.37	74.532		
3,000.00	2,732.55	2,728.59	2,701.29	21.45	9.66	-127.66	1,081.67	-923.18	1,936.07	1,909.48	26.59	72.815		
3,100.00	2,810.67	2,869.57	2,840.34	22.74	10.28	-129.22	1,102.99	-914.17	1,979.55	1,951.46	28.09	70.465		
3,200.00	2,888.78	2,973.16	2,942.61	24.03	10.74	-130.33	1,117.65	-906.69	2,022.87	1,993.53	29.34	68.942		
3,300.00	2,966.90	3,069.54	3,038.05	25.33	11.14	-131.37	1,128.79	-899.14	2,065.37	2,034.86	30.50	67.712		
3,400.00	3,045.02	3,176.15	3,143.77	26.63	11.58	-132.52	1,139.79	-890.84	2,108.15	2,076.46	31.69	66.528		
3,500.00	3,123.13	3,286.03	3,252.37	27.94	12.05	-133.58	1,152.67	-880.34	2,150.24	2,117.33	32.90	65.347		
3,600.00	3,201.25	3,385.46	3,350.18	29.24	12.50	-134.44	1,166.61	-869.14	2,191.82	2,157.72	34.09	64.286		
3,700.00	3,279.37	3,454.00	3,417.58	30.55	12.82	-135.00	1,176.45	-861.51	2,233.93	2,198.84	35.09	63.667		
3,800.00	3,357.49	3,511.02	3,473.79	31.86	13.07	-135.48	1,184.16	-855.90	2,277.27	2,241.30	35.98	63.299		
3,900.00	3,435.60	3,579.41	3,541.42	33.18	13.37	-136.06	1,192.72	-850.28	2,322.01	2,285.10	36.91	62.912		
4,000.00	3,513.72	3,742.05	3,701.79	34.49	14.09	-137.32	1,214.49	-834.43	2,366.15	2,327.72	38.43	61.564		
4,100.00	3,591.84	3,810.00	3,768.63	35.81	14.40	-137.81	1,223.90	-826.65	2,409.06	2,369.69	39.37	61.186		
4,200.00	3,669.95	3,864.82	3,822.72	37.12	14.64	-138.22	1,230.82	-821.10	2,453.14	2,412.95	40.19	61.034		
4,300.00	3,748.07	3,918.96	3,876.33	38.44	14.87	-138.63	1,236.92	-816.57	2,498.69	2,457.71	40.98	60.975		
4,400.00	3,826.19	3,980.47	3,937.29	39.76	15.13	-139.10	1,243.75	-812.07	2,545.38	2,503.60	41.79	60.912		
4,500.00	3,904.30	4,050.58	4,006.67	41.08	15.43	-139.59	1,252.67	-807.28	2,592.98	2,550.31	42.66	60.778		
4,600.00	3,982.42	4,109.12	4,064.34	42.40	15.69	-139.95	1,261.87	-803.35	2,641.33	2,597.86	43.47	60.763		
4,700.00	4,060.54	4,166.00	4,120.40	43.72	15.94	-140.29	1,271.01	-800.28	2,690.92	2,646.66	44.26	60.804		
4,800.00	4,138.66	4,293.27	4,245.89	45.05	16.51	-141.04	1,290.71	-792.53	2,739.94	2,694.37	45.56	60.133		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	4,371.97	4,323.76	46.37	16.85	-141.53	1,301.09	-787.84	2,789.09	2,742.62	46.47	60.014		
5,000.00	4,294.89	4,484.01	4,434.56	47.69	17.33	-142.19	1,315.90	-780.29	2,837.72	2,790.11	47.61	59.598		
5,100.00	4,373.01	4,549.09	4,498.82	49.02	17.62	-142.54	1,325.16	-775.84	2,886.60	2,838.17	48.43	59.608		
5,200.00	4,451.12	4,663.42	4,611.27	50.34	18.14	-143.09	1,343.96	-767.39	2,935.33	2,885.68	49.65	59.126		
5,300.00	4,529.24	4,732.00	4,678.72	51.67	18.46	-143.41	1,355.25	-762.27	2,984.14	2,933.64	50.51	59.085		
5,400.00	4,607.36	4,788.09	4,734.02	52.99	18.71	-143.68	1,363.90	-758.58	3,033.72	2,982.47	51.25	59.200		
5,500.00	4,685.47	5,500.00	4,927.18	54.32	22.00	-144.56	1,394.07	-743.11	3,082.38	3,027.00	55.38	55.663		
5,600.00	4,763.59	5,054.77	4,996.54	55.64	19.92	-144.87	1,404.74	-736.06	3,129.33	3,075.42	53.91	58.045		
5,700.00	4,841.71	5,103.09	5,044.22	56.97	20.14	-145.09	1,411.46	-731.99	3,177.53	3,122.95	54.58	58.219		
5,800.00	4,919.83	5,164.11	5,104.61	58.30	20.40	-145.38	1,418.97	-727.46	3,226.62	3,171.31	55.31	58.338		
5,900.00	4,997.94	5,422.45	5,359.72	59.62	21.53	-146.54	1,450.72	-702.66	3,274.19	3,216.78	57.41	57.031		
6,000.00	5,076.06	5,487.07	5,423.25	60.95	21.82	-146.80	1,459.41	-694.70	3,319.43	3,261.23	58.20	57.035		
6,100.00	5,154.18	5,533.00	5,468.45	62.28	22.03	-146.98	1,465.76	-689.51	3,365.69	3,306.84	58.85	57.191		
6,200.00	5,232.29	5,577.47	5,512.23	63.61	22.23	-147.15	1,472.11	-685.02	3,413.10	3,353.62	59.48	57.383		
6,300.00	5,310.41	5,623.00	5,557.09	64.93	22.44	-147.32	1,478.83	-681.10	3,461.78	3,401.67	60.11	57.595		
6,400.00	5,388.53	5,663.44	5,597.01	66.26	22.62	-147.47	1,484.64	-678.11	3,511.57	3,450.90	60.67	57.877		
6,500.00	5,466.64	5,712.00	5,645.05	67.59	22.83	-147.66	1,490.94	-675.06	3,562.37	3,501.09	61.28	58.129		
6,600.00	5,544.76	5,765.76	5,698.34	68.92	23.05	-147.87	1,497.49	-672.19	3,614.04	3,552.13	61.91	58.372		
6,700.00	5,622.88	6,700.00	5,887.79	70.25	27.17	-148.57	1,522.63	-660.00	3,665.12	3,598.30	66.82	54.851		
6,800.00	5,701.00	6,086.67	6,015.11	71.58	24.47	-148.97	1,542.42	-648.32	3,713.73	3,648.81	64.91	57.211		
6,900.00	5,779.11	6,139.51	6,066.97	72.91	24.71	-149.11	1,551.41	-643.67	3,762.82	3,697.22	65.60	57.358		
7,000.00	5,857.23	6,183.05	6,109.69	74.23	24.92	-149.22	1,559.10	-640.24	3,812.78	3,746.57	66.21	57.590		
7,100.00	5,935.35	6,221.51	6,147.52	75.56	25.09	-149.33	1,565.53	-637.69	3,863.81	3,797.06	66.75	57.885		
7,200.00	6,013.46	6,262.82	6,188.26	76.89	25.28	-149.44	1,571.99	-635.46	3,915.89	3,848.60	67.30	58.188		
7,300.00	6,091.58	6,309.83	6,234.74	78.22	25.48	-149.59	1,578.71	-633.37	3,968.86	3,900.99	67.87	58.476		
7,400.00	6,169.70	6,616.67	6,538.16	79.55	26.80	-150.53	1,618.83	-612.48	4,019.75	3,949.25	70.50	57.016		
7,500.00	6,247.81	6,668.72	6,589.44	80.88	27.04	-150.67	1,626.44	-607.74	4,068.87	3,997.72	71.15	57.188		
7,600.00	6,325.93	6,713.34	6,633.39	82.21	27.24	-150.78	1,633.21	-604.06	4,118.80	4,047.07	71.73	57.419		
7,700.00	6,404.05	6,751.69	6,671.20	83.54	27.41	-150.88	1,638.99	-601.32	4,169.71	4,097.46	72.25	57.709		
7,800.00	6,482.17	7,102.38	7,017.05	84.87	28.66	-152.32	1,651.37	-564.07	4,215.29	4,140.85	74.43	56.631		
7,900.00	6,560.28	7,138.00	7,051.53	86.20	28.73	-152.59	1,643.40	-560.18	4,262.56	4,187.85	74.71	57.053		
8,000.00	6,638.40	7,138.00	7,051.53	87.53	28.73	-152.59	1,643.40	-560.18	4,310.90	4,235.95	74.95	57.518		
8,100.00	6,716.52	7,138.00	7,051.53	88.86	28.73	-152.59	1,643.40	-560.18	4,360.99	4,285.84	75.15	58.027		
8,200.00	6,794.63	7,138.00	7,051.53	90.20	28.73	-152.59	1,643.40	-560.18	4,412.78	4,337.45	75.33	58.578		
8,300.00	6,872.75	7,138.00	7,051.53	91.53	28.73	-152.59	1,643.40	-560.18	4,466.21	4,390.73	75.48	59.169		
8,400.00	6,950.87	7,138.00	7,051.53	92.86	28.73	-152.59	1,643.40	-560.18	4,521.22	4,445.61	75.61	59.798		
8,500.00	7,028.98	7,138.00	7,051.53	94.19	28.73	-152.59	1,643.40	-560.18	4,577.76	4,502.04	75.71	60.463		
8,600.00	7,107.10	7,181.94	7,093.78	95.52	28.77	-152.95	1,631.58	-557.87	4,633.80	4,557.97	75.83	61.104		
8,647.91	7,144.53	7,185.39	7,097.08	96.16	28.77	-152.98	1,630.58	-557.83	4,661.77	4,585.90	75.87	61.442		
8,650.00	7,146.16	7,185.54	7,097.23	96.18	28.77	-153.38	1,630.54	-557.83	4,663.00	4,587.13	75.87	61.457		
8,700.00	7,185.66	7,227.00	7,136.66	96.84	28.80	-163.53	1,617.84	-559.05	4,694.17	4,618.24	75.93	61.821		
8,750.00	7,225.78	7,227.00	7,136.66	97.47	28.80	-173.88	1,617.84	-559.05	4,724.12	4,648.17	75.95	62.197		
8,800.00	7,266.21	7,227.00	7,136.66	98.08	28.80	175.47	1,617.84	-559.05	4,754.37	4,678.40	75.96	62.587		
8,850.00	7,306.63	7,227.00	7,136.66	98.64	28.80	164.84	1,617.84	-559.05	4,784.67	4,708.71	75.96	62.989		
8,900.00	7,346.75	7,227.00	7,136.66	99.17	28.80	154.51	1,617.84	-559.05	4,814.81	4,738.86	75.94	63.400		
8,950.00	7,386.25	7,227.00	7,136.66	99.64	28.80	144.74	1,617.84	-559.05	4,844.55	4,768.63	75.91	63.816		
9,000.00	7,424.84	7,227.00	7,136.66	100.06	28.80	135.71	1,617.84	-559.05	4,873.67	4,797.80	75.88	64.232		
9,050.00	7,462.22	7,227.00	7,136.66	100.42	28.80	127.52	1,617.84	-559.05	4,901.98	4,826.15	75.83	64.643		
9,100.00	7,498.11	7,227.00	7,136.66	100.74	28.80	120.18	1,617.84	-559.05	4,929.27	4,853.49	75.79	65.043		
9,150.00	7,532.24	7,227.00	7,136.66	100.99	28.80	113.69	1,617.84	-559.05	4,955.35	4,879.61	75.74	65.425		
9,200.00	7,564.34	7,227.00	7,136.66	101.19	28.80	108.00	1,617.84	-559.05	4,980.04	4,904.34	75.70	65.785		
9,250.00	7,594.17	7,227.00	7,136.66	101.34	28.80	103.06	1,617.84	-559.05	5,003.18	4,927.51	75.67	66.115		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,227.00	7,136.66	101.45	28.80	98.79	1,617.84	-559.05	5,024.62	4,948.96	75.66	66.409		
9,350.00	7,646.13	7,227.00	7,136.66	101.50	28.80	95.14	1,617.84	-559.05	5,044.20	4,968.54	75.67	66.663		
9,400.00	7,667.87	7,227.00	7,136.66	101.51	28.80	92.07	1,617.84	-559.05	5,061.82	4,986.12	75.70	66.869		
9,450.00	7,686.55	7,262.37	7,169.89	101.48	28.81	89.84	1,606.09	-561.93	5,076.67	5,000.88	75.79	66.985		
9,500.00	7,702.04	7,267.72	7,174.89	101.42	28.81	87.83	1,604.25	-562.46	5,089.80	5,013.91	75.88	67.076		
9,550.00	7,714.20	7,272.67	7,179.51	101.33	28.81	86.27	1,602.53	-562.97	5,100.64	5,024.64	76.01	67.109		
9,600.00	7,722.96	7,277.18	7,183.71	101.20	28.82	85.13	1,600.96	-563.45	5,109.15	5,032.99	76.17	67.080		
9,650.00	7,728.24	7,940.00	7,608.51	101.06	28.12	88.77	1,135.16	-587.81	5,113.40	5,040.54	72.86	70.184		
9,699.97	7,730.00	7,940.00	7,608.51	100.90	28.12	88.74	1,135.16	-587.81	5,112.44	5,039.37	73.07	69.965		
9,800.00	7,730.00	7,976.12	7,617.31	100.56	28.08	88.84	1,100.14	-586.82	5,108.91	5,035.65	73.27	69.730		
9,900.00	7,730.00	8,029.00	7,629.35	100.24	28.03	88.97	1,048.66	-586.46	5,107.03	5,033.67	73.36	69.616		
10,000.00	7,730.00	8,293.72	7,664.46	99.93	28.23	89.36	786.75	-579.83	5,104.56	5,032.24	72.32	70.583		
10,100.00	7,730.00	8,384.32	7,666.64	99.64	28.51	89.39	696.28	-575.70	5,099.64	5,027.14	72.49	70.345		
10,200.00	7,730.00	8,476.29	7,668.34	99.36	28.92	89.41	604.40	-571.65	5,094.88	5,022.07	72.81	69.975		
10,300.00	7,730.00	8,563.00	7,669.55	99.09	29.41	89.42	517.79	-567.91	5,090.22	5,016.95	73.27	69.471		
10,400.00	7,730.00	8,636.73	7,670.33	98.84	29.90	89.43	444.12	-565.00	5,085.96	5,012.11	73.86	68.862		
10,500.00	7,730.00	8,697.18	7,671.20	98.61	30.34	89.44	383.71	-563.07	5,082.43	5,007.91	74.52	68.202		
10,600.00	7,730.00	8,756.90	7,672.16	98.39	30.81	89.45	324.01	-561.66	5,079.70	5,004.46	75.24	67.509		
10,700.00	7,730.00	8,818.92	7,673.11	98.18	31.32	89.46	262.01	-560.66	5,077.74	5,001.69	76.04	66.775		
10,800.00	7,730.00	8,894.28	7,673.61	97.99	31.98	89.47	186.65	-559.93	5,076.41	4,999.45	76.96	65.964		
10,900.00	7,730.00	8,981.67	7,672.68	97.81	32.80	89.45	99.27	-559.38	5,075.46	4,997.45	78.00	65.066		
11,000.00	7,730.00	9,068.92	7,671.44	97.64	33.67	89.44	12.04	-559.01	5,074.71	4,995.55	79.16	64.110		
11,100.00	7,730.00	9,208.19	7,668.52	97.50	35.14	89.41	-127.21	-558.14	5,073.79	4,993.01	80.78	62.811		
11,200.00	7,730.00	9,325.85	7,668.35	97.36	36.47	89.41	-244.86	-556.88	5,072.40	4,989.95	82.45	61.520		
11,300.00	7,730.00	9,449.42	7,668.70	97.24	37.94	89.41	-368.40	-554.76	5,070.32	4,985.99	84.33	60.122		
11,400.00	7,730.00	9,583.41	7,668.72	97.14	39.61	89.41	-502.36	-551.92	5,067.89	4,981.40	86.50	58.589		
11,500.00	7,730.00	9,659.28	7,668.82	97.06	40.59	89.41	-578.21	-549.91	5,064.99	4,976.88	88.12	57.481		
11,600.00	7,730.00	9,721.00	7,668.62	96.98	41.39	89.41	-639.92	-549.27	5,063.37	4,973.77	89.61	56.506		
11,682.76	7,730.00	9,721.00	7,668.62	96.94	41.39	89.41	-639.92	-549.27	5,062.70	4,972.47	90.23	56.110		
11,700.00	7,730.00	9,721.00	7,668.62	96.93	41.39	89.41	-639.92	-549.27	5,062.73	4,972.37	90.35	56.033		
11,800.00	7,730.00	9,775.81	7,668.44	96.90	42.11	89.41	-694.73	-549.69	5,063.32	4,971.52	91.80	55.156		
11,900.00	7,730.00	9,810.00	7,668.45	96.88	42.56	89.41	-728.91	-550.40	5,065.15	4,972.15	93.00	54.466		
12,000.00	7,730.00	9,880.23	7,667.37	96.88	43.51	89.39	-799.10	-552.51	5,067.87	4,973.18	94.69	53.520		
12,100.00	7,730.00	10,155.41	7,653.65	96.90	47.33	89.24	-1,073.86	-558.08	5,070.24	4,970.83	99.42	51.000		
12,200.00	7,730.00	10,332.14	7,645.17	96.94	49.91	89.14	-1,250.37	-556.86	5,069.37	4,966.37	103.00	49.215		
12,300.00	7,730.00	10,461.92	7,639.00	97.00	51.84	89.07	-1,379.99	-554.40	5,067.20	4,961.23	105.97	47.819		
12,400.00	7,730.00	10,548.73	7,634.48	97.08	53.15	89.02	-1,466.65	-552.42	5,064.69	4,956.44	108.25	46.786		
12,500.00	7,730.00	10,612.00	7,631.39	97.18	54.11	88.99	-1,529.84	-551.66	5,063.11	4,952.96	110.15	45.965		
12,600.00	7,730.00	10,652.31	7,629.50	97.31	54.72	88.96	-1,570.10	-551.56	5,062.41	4,950.76	111.65	45.342		
12,634.15	7,730.00	10,673.54	7,628.50	97.36	55.05	88.95	-1,591.31	-551.59	5,062.36	4,950.06	112.30	45.078		
12,700.00	7,730.00	10,717.07	7,626.41	97.46	55.71	88.93	-1,634.79	-551.80	5,062.52	4,948.92	113.60	44.563		
12,800.00	7,730.00	10,791.20	7,622.66	97.64	56.84	88.89	-1,708.83	-552.50	5,063.22	4,947.47	115.75	43.743		
12,900.00	7,730.00	10,888.68	7,619.29	97.85	58.35	88.85	-1,806.24	-553.74	5,064.22	4,945.85	118.38	42.781		
13,000.00	7,730.00	11,002.70	7,616.52	98.09	60.12	88.82	-1,920.21	-554.95	5,064.97	4,943.60	121.38	41.729		
13,100.00	7,730.00	11,118.82	7,612.37	98.35	61.94	88.77	-2,036.25	-556.12	5,065.75	4,941.28	124.47	40.700		
13,200.00	7,730.00	11,252.30	7,606.17	98.65	64.05	88.70	-2,169.59	-556.44	5,065.73	4,937.77	127.96	39.589		
13,300.00	7,730.00	11,385.80	7,598.93	98.98	66.18	88.62	-2,302.88	-556.21	5,065.41	4,933.90	131.50	38.519		
13,400.00	7,730.00	11,547.60	7,593.53	99.34	68.79	88.56	-2,464.58	-554.09	5,063.81	4,928.07	135.74	37.305		
13,500.00	7,730.00	11,696.04	7,587.07	99.74	71.21	88.48	-2,612.83	-550.56	5,061.20	4,921.46	139.74	36.218		
13,600.00	7,730.00	11,771.00	7,584.07	100.17	72.44	88.45	-2,687.71	-548.55	5,058.31	4,916.14	142.17	35.579		
13,700.00	7,730.00	11,841.23	7,582.79	100.65	73.59	88.43	-2,757.91	-547.04	5,055.92	4,911.40	144.51	34.986		
13,800.00	7,730.00	11,971.24	7,582.93	101.16	75.73	88.43	-2,887.89	-544.67	5,053.78	4,905.54	148.24	34.092		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	12,073.64	7,582.08	101.71	77.42	88.42	-2,990.26	-542.23	5,051.08	4,899.72	151.36	33.371		
14,000.00	7,730.00	12,127.00	7,582.44	102.30	78.31	88.43	-3,043.61	-541.07	5,048.73	4,895.37	153.36	32.921		
14,100.00	7,730.00	12,176.81	7,583.54	102.93	79.13	88.44	-3,093.40	-540.50	5,047.34	4,892.07	155.27	32.506		
14,139.02	7,730.00	12,191.22	7,583.97	103.19	79.37	88.44	-3,107.80	-540.49	5,047.16	4,891.26	155.90	32.375		
14,200.00	7,730.00	12,222.14	7,584.60	103.60	79.88	88.45	-3,126.44	-540.58	5,047.25	4,890.27	156.98	32.152		
14,300.00	7,730.00	12,312.35	7,588.50	104.32	81.37	88.50	-3,228.84	-541.65	5,047.86	4,887.90	159.96	31.557		
14,400.00	7,730.00	12,440.24	7,592.79	105.07	83.50	88.54	-3,356.66	-542.43	5,048.01	4,884.22	163.78	30.821		
14,500.00	7,730.00	12,519.88	7,594.82	105.86	84.82	88.57	-3,436.27	-542.84	5,048.14	4,881.70	166.44	30.330		
14,600.00	7,730.00	12,601.77	7,596.18	106.70	86.18	88.58	-3,518.14	-543.77	5,048.87	4,879.72	169.15	29.849		
14,700.00	7,730.00	12,716.20	7,597.09	107.57	88.09	88.59	-3,632.57	-544.76	5,049.36	4,876.68	172.67	29.242		
14,800.00	7,730.00	12,803.27	7,596.98	108.48	89.55	88.59	-3,719.63	-545.57	5,049.96	4,874.43	175.53	28.770		
14,900.00	7,730.00	12,887.64	7,596.15	109.43	90.96	88.58	-3,803.99	-546.60	5,050.86	4,872.54	178.31	28.326		
15,000.00	7,730.00	12,979.58	7,594.64	110.42	92.50	88.57	-3,895.91	-547.95	5,052.03	4,870.73	181.30	27.866		
15,100.00	7,730.00	13,100.64	7,592.22	111.43	94.53	88.54	-4,016.93	-549.60	5,053.11	4,868.08	185.03	27.310		
15,200.00	7,730.00	13,187.74	7,590.17	112.49	96.00	88.52	-4,104.01	-550.62	5,054.02	4,866.11	187.91	26.896		
15,300.00	7,730.00	13,353.37	7,589.77	113.57	98.79	88.51	-4,269.61	-551.83	5,054.41	4,861.57	192.84	26.211		
15,366.03	7,730.00	13,406.97	7,590.23	114.30	99.70	88.52	-4,323.21	-551.89	5,054.26	4,859.59	194.67	25.964		
15,400.00	7,730.00	13,427.94	7,590.37	114.68	100.06	88.52	-4,344.18	-551.99	5,054.30	4,858.87	195.44	25.862		
15,500.00	7,730.00	13,464.00	7,590.58	115.82	100.67	88.52	-4,380.24	-552.29	5,055.05	4,858.02	197.02	25.657		
15,600.00	7,730.00	13,515.56	7,590.73	116.99	101.54	88.52	-4,431.79	-553.29	5,056.83	4,857.84	199.00	25.411		
15,700.00	7,730.00	13,553.00	7,590.69	118.19	102.17	88.52	-4,469.20	-554.59	5,059.94	4,859.36	200.58	25.227		
15,800.00	7,730.00	15,800.00	7,589.60	119.41	140.11	88.51	-4,619.43	-559.97	5,063.23	4,822.58	240.64	21.040		
15,900.00	7,730.00	15,900.00	7,589.57	120.65	142.20	88.51	-4,876.74	-563.41	5,063.96	4,818.16	245.79	20.602		
16,000.00	7,730.00	14,075.04	7,591.13	121.91	111.02	88.53	-4,991.09	-562.92	5,063.11	4,846.77	216.35	23.403		
16,045.90	7,730.00	14,087.00	7,591.32	122.50	111.23	88.53	-5,003.05	-562.89	5,062.92	4,845.95	216.97	23.335		
16,100.00	7,730.00	14,117.32	7,591.86	123.20	111.75	88.54	-5,033.36	-562.99	5,062.97	4,844.84	218.13	23.211		
16,200.00	7,730.00	14,176.00	7,593.23	124.50	112.75	88.55	-5,092.01	-564.09	5,064.19	4,843.85	220.34	22.984		
16,300.00	7,730.00	14,205.44	7,594.03	125.82	113.25	88.56	-5,121.43	-564.97	5,066.35	4,844.62	221.73	22.849		
16,400.00	7,730.00	14,286.60	7,596.21	127.16	114.63	88.59	-5,202.51	-567.68	5,069.27	4,844.74	224.53	22.577		
16,500.00	7,730.00	14,389.53	7,599.13	128.52	116.38	88.62	-5,305.35	-571.16	5,072.25	4,844.31	227.94	22.252		
16,600.00	7,730.00	14,638.70	7,603.70	129.89	120.64	88.68	-5,554.41	-575.35	5,073.21	4,837.83	235.38	21.553		
16,700.00	7,730.00	14,691.94	7,604.19	131.27	121.55	88.68	-5,607.64	-575.82	5,073.73	4,836.27	237.46	21.367		
16,800.00	7,730.00	14,939.87	7,606.66	132.67	125.82	88.71	-5,855.55	-575.15	5,072.88	4,828.06	244.82	20.721		
16,900.00	7,730.00	15,070.12	7,607.22	134.09	128.08	88.71	-5,985.77	-572.72	5,070.67	4,821.68	249.00	20.365		
17,000.00	7,730.00	15,157.00	7,607.36	135.51	129.59	88.71	-6,072.63	-570.55	5,067.89	4,815.87	252.03	20.108		
17,100.00	7,730.00	15,212.96	7,607.57	136.95	130.55	88.72	-6,128.58	-569.48	5,065.81	4,811.58	254.23	19.926		
17,200.00	7,730.00	15,258.46	7,608.07	138.40	131.34	88.72	-6,174.07	-569.30	5,064.99	4,808.86	256.13	19.775		
17,300.00	7,730.00	15,340.17	7,609.18	139.85	132.75	88.73	-6,255.78	-569.49	5,064.86	4,805.85	259.01	19.554		
17,339.93	7,730.00	15,394.14	7,609.97	140.44	133.69	88.74	-6,309.74	-569.63	5,064.82	4,804.06	260.76	19.424		
17,400.00	7,730.00	15,490.52	7,611.32	141.32	135.35	88.76	-6,406.11	-569.44	5,064.48	4,800.69	263.79	19.199		
17,500.00	7,730.00	15,599.76	7,612.23	142.80	137.25	88.77	-6,515.34	-568.59	5,063.34	4,795.90	267.44	18.933		
17,600.00	7,730.00	15,691.27	7,612.51	144.28	138.83	88.77	-6,606.85	-567.93	5,062.27	4,791.67	270.60	18.707		
17,700.00	7,730.00	15,825.96	7,612.35	145.78	141.17	88.77	-6,741.53	-566.60	5,060.95	4,786.00	274.95	18.407		
17,800.00	7,730.00	15,997.31	7,611.11	147.28	144.15	88.75	-6,912.84	-563.13	5,058.63	4,778.36	280.27	18.049		
17,900.00	7,730.00	16,073.44	7,610.24	148.79	145.48	88.74	-6,988.94	-560.96	5,055.54	4,772.50	283.04	17.861		
18,000.00	7,730.00	16,112.81	7,609.88	150.31	146.16	88.74	-7,028.29	-560.30	5,053.54	4,768.73	284.81	17.744		
18,100.00	7,730.00	16,167.38	7,609.53	151.83	147.11	88.74	-7,082.86	-560.05	5,052.67	4,765.71	286.96	17.607		
18,200.00	7,730.00	16,251.38	7,608.92	153.37	148.57	88.73	-7,166.87	-560.06	5,052.36	4,762.43	289.92	17.426		
18,292.35	7,730.00	16,334.04	7,608.02	154.79	150.00	88.72	-7,249.52	-560.18	5,052.21	4,759.41	292.80	17.255		
18,300.00	7,730.00	16,339.20	7,607.99	154.90	150.09	88.72	-7,254.68	-560.20	5,052.21	4,759.23	292.99	17.244		
18,400.00	7,730.00	16,407.13	7,608.54	156.45	151.27	88.72	-7,322.60	-560.70	5,052.59	4,757.09	295.50	17.099		
18,500.00	7,730.00	16,487.60	7,610.59	158.00	152.67	88.75	-7,403.04	-561.72	5,053.46	4,755.10	298.36	16.937		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 586-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,600.00	7,730.00	16,578.97	7,613.65	159.55	154.25	88.78	-7,494.35	-563.16	5,054.63	4,753.08	301.54	16.763	
18,700.00	7,730.00	16,685.59	7,617.60	161.11	156.10	88.83	-7,600.88	-564.84	5,055.79	4,750.62	305.17	16.567	
18,800.00	7,730.00	16,779.28	7,621.41	162.68	157.72	88.87	-7,694.48	-566.35	5,056.98	4,748.55	308.43	16.396	
18,900.00	7,730.00	16,889.01	7,626.13	164.25	159.63	88.93	-7,804.09	-568.13	5,058.19	4,746.03	312.15	16.204	
19,000.00	7,730.00	16,979.46	7,628.51	165.83	161.19	88.95	-7,894.50	-569.36	5,059.17	4,743.86	315.31	16.045	
19,100.00	7,730.00	17,048.15	7,629.54	167.41	162.39	88.96	-7,963.17	-570.70	5,060.75	4,742.92	317.83	15.923	
19,200.00	7,730.00	17,128.28	7,630.55	168.99	163.77	88.98	-8,043.27	-572.64	5,062.81	4,742.13	320.67	15.788	
19,300.00	7,730.00	17,211.91	7,631.39	170.58	165.22	88.99	-8,126.86	-574.95	5,065.21	4,741.60	323.61	15.652	
19,400.00	7,730.00	17,285.83	7,631.82	172.17	166.50	88.99	-8,200.75	-577.30	5,068.04	4,741.78	326.26	15.534	
19,430.54	7,730.00	17,313.03	7,631.91	172.66	166.97	88.99	-8,227.93	-578.24	5,068.99	4,741.79	327.20	15.492 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.94	786.89	-1,080.78	1,336.92					
100.00	100.00	90.48	90.48	0.13	0.15	-53.94	786.88	-1,080.80	1,336.90	1,336.62	0.28	4,768.873 CC		
200.00	200.00	189.91	189.91	0.49	0.31	-53.95	786.85	-1,080.90	1,336.97	1,336.17	0.80	1,672.983		
300.00	300.00	286.41	286.41	0.85	0.57	-53.95	786.88	-1,081.08	1,337.13	1,335.71	1.42	938.675		
400.00	400.00	381.02	381.01	1.21	0.91	-53.95	787.23	-1,081.46	1,337.68	1,335.56	2.12	631.318 ES		
500.00	500.00	475.61	475.60	1.57	1.24	-53.94	787.92	-1,082.07	1,338.63	1,335.81	2.81	475.845		
600.00	599.98	570.17	570.16	1.92	1.58	-119.30	788.96	-1,082.89	1,340.83	1,337.33	3.50	382.781		
700.00	699.84	670.83	670.80	2.28	1.94	-119.41	790.17	-1,083.92	1,344.93	1,340.72	4.21	319.144		
800.00	799.45	766.94	766.89	2.64	2.28	-119.60	791.43	-1,084.93	1,350.87	1,345.95	4.92	274.737		
900.00	898.70	881.64	881.52	3.02	2.68	-119.83	795.26	-1,084.04	1,358.26	1,352.57	5.69	238.776		
1,000.00	997.47	990.02	989.54	3.41	3.06	-119.94	802.42	-1,079.08	1,366.18	1,359.72	6.45	211.656		
1,100.00	1,095.62	1,085.47	1,084.57	3.84	3.41	-120.07	809.72	-1,074.03	1,375.88	1,368.68	7.20	191.019		
1,200.00	1,193.06	1,206.26	1,204.76	4.29	3.85	-120.36	819.32	-1,066.61	1,386.89	1,378.82	8.07	171.805		
1,300.00	1,289.64	1,303.16	1,301.19	4.78	4.21	-120.66	826.37	-1,060.30	1,399.03	1,390.14	8.89	157.417		
1,400.00	1,385.27	1,406.38	1,403.59	5.32	4.60	-120.97	835.88	-1,051.53	1,412.46	1,402.69	9.77	144.626		
1,500.00	1,479.82	1,507.17	1,503.40	5.90	5.00	-121.30	846.52	-1,042.50	1,428.19	1,417.51	10.68	133.701		
1,600.00	1,573.17	1,601.11	1,595.94	6.53	5.38	-121.53	858.69	-1,031.86	1,445.15	1,433.53	11.62	124.354		
1,700.00	1,665.21	1,673.74	1,667.42	7.23	5.69	-121.65	868.98	-1,024.11	1,465.25	1,452.73	12.51	117.095		
1,800.00	1,755.84	1,750.28	1,742.76	7.98	6.01	-121.82	880.52	-1,017.20	1,489.04	1,475.58	13.46	110.631		
1,900.00	1,844.94	1,854.38	1,845.04	8.80	6.46	-122.21	897.21	-1,007.25	1,514.96	1,500.38	14.58	103.905		
2,000.00	1,932.39	1,935.75	1,924.95	9.68	6.82	-122.45	910.24	-999.19	1,542.70	1,527.07	15.63	98.686		
2,100.00	2,018.11	2,001.94	1,990.04	10.63	7.11	-122.57	921.02	-993.89	1,574.16	1,557.53	16.64	94.609		
2,200.00	2,101.97	2,148.34	2,133.77	11.65	7.76	-123.54	945.39	-980.57	1,607.35	1,589.25	18.10	88.792		
2,300.00	2,183.88	2,232.59	2,216.39	12.74	8.14	-123.89	958.86	-971.00	1,640.56	1,621.27	19.28	85.078		
2,400.00	2,263.74	2,300.75	2,283.23	13.90	8.45	-124.05	970.17	-963.92	1,677.10	1,656.70	20.40	82.197		
2,431.61	2,288.54	2,321.68	2,303.76	14.29	8.55	-124.09	973.70	-961.91	1,689.37	1,668.61	20.76	81.382		
2,500.00	2,341.97	2,365.80	2,347.05	15.13	8.75	-124.64	981.22	-957.93	1,716.66	1,695.15	21.52	79.787		
2,600.00	2,420.08	2,428.04	2,408.14	16.37	9.03	-125.40	992.08	-952.98	1,758.01	1,735.41	22.60	77.799		
2,700.00	2,498.20	2,495.51	2,474.38	17.63	9.34	-126.21	1,004.06	-948.39	1,800.89	1,777.20	23.69	76.013		
2,800.00	2,576.32	2,559.96	2,537.71	18.89	9.62	-126.96	1,015.43	-944.75	1,845.16	1,820.41	24.75	74.558		
2,900.00	2,654.43	2,650.06	2,626.29	20.17	10.03	-127.98	1,031.33	-940.42	1,890.57	1,864.61	25.96	72.837		
3,000.00	2,732.55	2,788.40	2,761.89	21.45	10.66	-129.38	1,056.92	-930.58	1,934.84	1,907.35	27.49	70.386		
3,100.00	2,810.67	2,938.71	2,909.40	22.74	11.36	-130.85	1,082.22	-916.93	1,977.81	1,948.74	29.07	68.048		
3,200.00	2,888.78	3,016.30	2,985.71	24.03	11.71	-131.61	1,093.50	-908.54	2,018.73	1,988.56	30.17	66.923		
3,300.00	2,966.90	3,164.29	3,131.32	25.33	12.38	-133.03	1,113.35	-891.25	2,058.87	2,027.23	31.65	65.059		
3,400.00	3,045.02	3,227.71	3,193.81	26.63	12.66	-133.63	1,121.09	-883.67	2,098.99	2,066.36	32.63	64.331		
3,500.00	3,123.13	3,336.34	3,300.89	27.94	13.14	-134.64	1,133.96	-870.73	2,139.45	2,105.61	33.84	63.222		
3,600.00	3,201.25	3,422.54	3,385.60	29.24	13.53	-135.37	1,145.29	-859.50	2,179.65	2,144.72	34.93	62.398		
3,700.00	3,279.37	3,487.00	3,449.08	30.55	13.82	-135.91	1,153.51	-851.85	2,221.02	2,185.14	35.88	61.901		
3,800.00	3,357.49	3,569.82	3,530.60	31.86	14.20	-136.57	1,164.66	-842.40	2,263.28	2,226.35	36.93	61.289		
3,900.00	3,435.60	3,631.43	3,591.20	33.18	14.48	-137.04	1,173.35	-835.49	2,306.15	2,268.31	37.83	60.955		
4,000.00	3,513.72	3,714.00	3,672.69	34.49	14.85	-137.69	1,183.83	-827.35	2,350.14	2,311.30	38.85	60.500		
4,100.00	3,591.84	3,847.37	3,803.74	35.81	15.46	-138.62	1,203.34	-812.11	2,393.46	2,353.26	40.20	59.539		
4,200.00	3,669.95	3,893.19	3,848.73	37.12	15.67	-138.92	1,210.19	-806.81	2,436.84	2,395.86	40.98	59.464		
4,300.00	3,748.07	3,940.72	3,895.57	38.44	15.88	-139.25	1,216.78	-802.14	2,481.82	2,440.07	41.74	59.455		
4,400.00	3,826.19	4,036.67	3,990.29	39.76	16.31	-139.91	1,229.55	-793.79	2,527.92	2,485.11	42.81	59.052		
4,500.00	3,904.30	4,124.00	4,076.28	41.08	16.71	-140.46	1,242.24	-785.34	2,573.54	2,529.71	43.83	58.721		
4,600.00	3,982.42	4,211.70	4,162.56	42.40	17.11	-140.98	1,255.51	-776.84	2,619.41	2,574.56	44.85	58.405		
4,700.00	4,060.54	4,302.77	4,252.07	43.72	17.53	-141.49	1,269.62	-767.85	2,665.34	2,619.44	45.90	58.071		
4,800.00	4,138.66	4,361.68	4,309.96	45.05	17.80	-141.81	1,278.95	-762.15	2,711.68	2,664.98	46.71	58.059		
4,900.00	4,216.77	4,439.63	4,386.89	46.37	18.15	-142.26	1,289.82	-755.84	2,759.22	2,711.60	47.62	57.937		
5,000.00	4,294.89	4,540.29	4,485.96	47.69	18.61	-142.79	1,304.84	-746.28	2,805.77	2,757.06	48.71	57.600		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,600.28	4,545.11	49.02	18.88	-143.11	1,313.48	-741.25	2,853.41	2,803.92	49.49	57.655		
5,200.00	4,451.12	4,761.83	4,704.37	50.34	19.60	-143.95	1,335.81	-725.96	2,900.21	2,849.23	50.99	56.883		
5,300.00	4,529.24	4,811.50	4,753.22	51.67	19.83	-144.18	1,343.21	-720.87	2,946.64	2,894.94	51.69	57.004		
5,400.00	4,607.36	4,966.15	4,905.38	52.99	20.54	-144.90	1,365.86	-705.24	2,993.67	2,940.52	53.15	56.324		
5,500.00	4,685.47	5,032.00	4,969.93	54.32	20.85	-145.17	1,376.37	-697.56	3,039.19	2,985.20	53.99	56.293		
5,600.00	4,763.59	5,083.69	5,020.72	55.64	21.09	-145.39	1,384.25	-692.05	3,085.63	3,030.93	54.70	56.409		
5,700.00	4,841.71	5,188.07	5,123.52	56.97	21.57	-145.84	1,399.24	-681.94	3,133.04	3,077.25	55.79	56.162		
5,800.00	4,919.83	5,257.95	5,192.19	58.30	21.89	-146.12	1,409.84	-674.48	3,179.71	3,123.09	56.62	56.159		
5,900.00	4,997.94	5,436.11	5,367.33	59.62	22.72	-146.84	1,435.21	-654.13	3,225.70	3,167.48	58.23	55.399		
6,000.00	5,076.06	5,477.00	5,407.46	60.95	22.91	-147.00	1,441.13	-648.99	3,271.01	3,212.16	58.85	55.582		
6,100.00	5,154.18	5,532.16	5,461.72	62.28	23.16	-147.22	1,448.76	-642.74	3,317.38	3,257.83	59.55	55.704		
6,200.00	5,232.29	5,594.88	5,523.62	63.61	23.45	-147.47	1,456.89	-636.67	3,365.03	3,304.73	60.30	55.808		
6,300.00	5,310.41	5,682.63	5,610.04	64.93	23.84	-147.80	1,469.21	-627.74	3,412.47	3,351.24	61.23	55.734		
6,400.00	5,388.53	5,725.57	5,652.42	66.26	24.03	-147.96	1,474.85	-623.82	3,460.87	3,399.06	61.81	55.992		
6,500.00	5,466.64	5,815.17	5,741.06	67.59	24.42	-148.32	1,485.69	-616.43	3,510.09	3,447.37	62.72	55.965		
6,600.00	5,544.76	6,000.00	5,847.72	68.92	28.02	-148.68	1,501.66	-606.44	3,558.57	3,491.78	66.80	53.275		
6,700.00	5,622.88	5,970.89	5,894.18	70.25	25.13	-148.81	1,509.93	-602.13	3,607.45	3,542.98	64.46	55.964		
6,800.00	5,701.00	6,800.00	5,985.09	71.58	28.95	-149.09	1,524.73	-594.64	3,657.11	3,588.38	68.73	53.208		
6,900.00	5,779.11	6,143.74	6,064.18	72.91	25.93	-149.32	1,537.53	-587.54	3,706.22	3,639.88	66.35	55.860		
7,000.00	5,857.23	6,190.00	6,109.82	74.23	26.14	-149.47	1,544.24	-584.10	3,756.40	3,689.46	66.94	56.115		
7,100.00	5,935.35	6,309.83	6,228.04	75.56	26.67	-149.83	1,561.49	-574.91	3,806.59	3,738.47	68.12	55.880		
7,200.00	6,013.46	6,395.71	6,312.89	76.89	27.04	-150.11	1,572.83	-568.06	3,856.55	3,787.55	69.01	55.885		
7,300.00	6,091.58	6,601.41	6,515.60	78.22	27.97	-150.70	1,601.70	-548.48	3,905.49	3,834.65	70.84	55.130		
7,400.00	6,169.70	6,668.94	6,581.96	79.55	28.29	-150.88	1,611.47	-540.71	3,952.63	3,881.01	71.61	55.193		
7,500.00	6,247.81	6,724.00	6,636.04	80.88	28.54	-151.02	1,620.30	-535.35	4,001.05	3,928.76	72.30	55.341		
7,600.00	6,325.93	6,724.00	6,636.04	82.21	28.54	-151.02	1,620.30	-535.35	4,050.45	3,977.94	72.51	55.860		
7,700.00	6,404.05	6,774.83	6,686.05	83.54	28.77	-151.14	1,628.50	-531.36	4,100.92	4,027.79	73.14	56.073		
7,800.00	6,482.17	7,438.00	7,334.75	84.87	31.49	-153.44	1,674.58	-442.32	4,148.77	4,071.52	77.25	53.708		
7,900.00	6,560.28	7,438.00	7,334.75	86.20	31.49	-153.44	1,674.58	-442.32	4,188.97	4,111.36	77.61	53.974		
8,000.00	6,638.40	7,478.81	7,373.14	87.53	31.54	-153.77	1,663.19	-434.52	4,230.15	4,152.28	77.87	54.324		
8,100.00	6,716.52	7,527.00	7,417.87	88.86	31.60	-154.20	1,646.74	-427.47	4,274.09	4,196.03	78.06	54.752		
8,200.00	6,794.63	7,527.00	7,417.87	90.20	31.60	-154.20	1,646.74	-427.47	4,318.54	4,240.19	78.34	55.123		
8,300.00	6,872.75	7,527.00	7,417.87	91.53	31.60	-154.20	1,646.74	-427.47	4,364.82	4,286.24	78.59	55.540		
8,400.00	6,950.87	7,527.00	7,417.87	92.86	31.60	-154.20	1,646.74	-427.47	4,412.89	4,334.09	78.80	55.998		
8,500.00	7,028.98	7,527.00	7,417.87	94.19	31.60	-154.20	1,646.74	-427.47	4,462.68	4,383.70	78.99	56.497		
8,600.00	7,107.10	7,527.00	7,417.87	95.52	31.60	-154.20	1,646.74	-427.47	4,514.14	4,435.00	79.15	57.035		
8,647.91	7,144.53	7,527.00	7,417.87	96.16	31.60	-154.20	1,646.74	-427.47	4,539.37	4,460.16	79.21	57.306		
8,650.00	7,146.16	7,527.00	7,417.87	96.18	31.60	-154.58	1,646.74	-427.47	4,540.48	4,461.26	79.22	57.318		
8,700.00	7,185.66	7,527.00	7,417.87	96.84	31.60	-163.93	1,646.74	-427.47	4,567.38	4,488.10	79.28	57.613		
8,750.00	7,225.78	7,565.87	7,453.25	97.47	31.60	-174.10	1,631.11	-423.71	4,593.65	4,514.41	79.24	57.970		
8,800.00	7,266.21	7,571.06	7,457.91	98.08	31.60	175.74	1,628.86	-423.36	4,621.09	4,541.82	79.27	58.295		
8,850.00	7,306.63	7,576.41	7,462.71	98.64	31.60	165.58	1,626.50	-423.03	4,648.60	4,569.32	79.29	58.631		
8,900.00	7,346.75	7,616.00	7,497.58	99.17	31.61	155.60	1,607.83	-421.77	4,676.87	4,597.68	79.19	59.057		
8,950.00	7,386.25	7,616.00	7,497.58	99.64	31.61	146.34	1,607.83	-421.77	4,703.60	4,624.40	79.20	59.388		
9,000.00	7,424.84	7,616.00	7,497.58	100.06	31.61	137.76	1,607.83	-421.77	4,729.81	4,650.61	79.20	59.719		
9,050.00	7,462.22	7,616.00	7,497.58	100.42	31.61	129.97	1,607.83	-421.77	4,755.32	4,676.12	79.20	60.045		
9,100.00	7,498.11	7,616.00	7,497.58	100.74	31.61	122.98	1,607.83	-421.77	4,779.94	4,700.75	79.19	60.363		
9,150.00	7,532.24	7,616.00	7,497.58	100.99	31.61	116.77	1,607.83	-421.77	4,803.50	4,724.32	79.18	60.665		
9,200.00	7,564.34	7,616.00	7,497.58	101.19	31.61	111.32	1,607.83	-421.77	4,825.85	4,746.67	79.18	60.949		
9,250.00	7,594.17	7,616.00	7,497.58	101.34	31.61	106.56	1,607.83	-421.77	4,846.83	4,767.64	79.19	61.207		
9,300.00	7,621.50	7,646.26	7,523.59	101.45	31.59	102.60	1,592.37	-421.74	4,866.02	4,786.91	79.12	61.505		
9,350.00	7,646.13	7,660.92	7,536.01	101.50	31.58	99.18	1,584.59	-421.85	4,883.52	4,804.42	79.11	61.732		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 229-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,675.35	7,548.14	101.51	31.57	96.31	1,576.76	-422.03	4,899.16	4,820.04	79.12	61.918		
9,450.00	7,686.55	7,705.00	7,572.68	101.48	31.55	94.06	1,560.14	-422.62	4,912.90	4,833.80	79.10	62.106		
9,500.00	7,702.04	7,888.72	7,712.83	101.42	31.35	93.29	1,441.81	-423.39	4,924.30	4,846.00	78.30	62.892		
9,550.00	7,714.20	7,938.24	7,746.12	101.33	31.28	92.14	1,405.17	-422.63	4,932.17	4,854.03	78.14	63.121		
9,600.00	7,722.96	7,989.68	7,778.14	101.20	31.21	91.45	1,364.93	-421.77	4,937.62	4,859.65	77.97	63.326		
9,650.00	7,728.24	7,973.00	7,768.05	101.06	31.23	90.76	1,378.21	-422.06	4,941.03	4,862.72	78.31	63.099		
9,699.97	7,730.00	8,002.94	7,785.96	100.90	31.18	90.75	1,354.21	-421.76	4,942.11	4,863.76	78.35	63.080		
9,800.00	7,730.00	8,028.67	7,800.58	100.56	31.14	90.92	1,333.04	-421.84	4,943.15	4,864.44	78.71	62.805		
9,900.00	7,730.00	8,188.45	7,875.33	100.24	30.85	91.79	1,192.13	-422.89	4,944.91	4,866.87	78.04	63.366		
10,000.00	7,730.00	10,000.00	7,930.64	99.93	32.17	92.43	989.15	-422.36	4,945.77	4,866.69	79.08	62.541		
10,100.00	7,730.00	8,470.34	7,937.48	99.64	30.43	92.51	918.74	-421.56	4,944.79	4,867.67	77.12	64.117		
10,133.94	7,730.00	8,486.60	7,938.14	99.54	30.41	92.52	902.49	-421.54	4,944.69	4,867.47	77.22	64.034		
10,200.00	7,730.00	8,537.41	7,939.16	99.36	30.39	92.53	851.69	-421.76	4,944.79	4,867.50	77.29	63.976		
10,300.00	7,730.00	8,678.60	7,942.62	99.09	30.60	92.57	710.55	-421.82	4,944.62	4,867.41	77.22	64.037		
10,364.88	7,730.00	8,711.63	7,943.48	98.93	30.72	92.58	677.53	-421.76	4,944.38	4,866.87	77.51	63.786		
10,400.00	7,730.00	8,727.05	7,943.88	98.84	30.78	92.58	662.11	-421.82	4,944.45	4,866.77	77.68	63.651		
10,500.00	7,730.00	8,774.00	7,945.07	98.61	30.99	92.60	615.18	-422.40	4,945.42	4,867.24	78.18	63.254		
10,600.00	7,730.00	9,014.06	7,952.19	98.39	32.51	92.68	375.25	-421.87	4,944.33	4,865.61	78.72	62.812		
10,700.00	7,730.00	9,123.81	7,951.87	98.18	33.37	92.68	265.51	-420.80	4,943.02	4,863.46	79.56	62.131		
10,800.00	7,730.00	9,184.74	7,952.09	97.99	33.89	92.68	204.58	-420.25	4,941.82	4,861.42	80.40	61.464		
10,900.00	7,730.00	9,309.00	7,954.67	97.81	35.01	92.71	80.35	-419.33	4,940.85	4,859.25	81.60	60.551		
11,000.00	7,730.00	9,353.03	7,955.61	97.64	35.43	92.72	36.34	-418.95	4,939.98	4,857.46	82.51	59.868		
11,008.82	7,730.00	9,355.79	7,955.66	97.63	35.46	92.72	33.57	-418.96	4,939.97	4,857.38	82.59	59.812		
11,100.00	7,730.00	9,398.00	7,956.41	97.50	35.87	92.73	-8.62	-419.46	4,940.61	4,857.15	83.46	59.200		
11,200.00	7,730.00	9,659.55	7,962.16	97.36	38.65	92.80	-270.09	-419.54	4,941.12	4,854.97	86.15	57.358		
11,300.00	7,730.00	9,754.00	7,964.46	97.24	39.74	92.83	-364.48	-417.09	4,938.34	4,850.60	87.75	56.278		
11,400.00	7,730.00	9,804.74	7,965.79	97.14	40.35	92.84	-415.19	-416.06	4,936.39	4,847.41	88.98	55.481		
11,494.24	7,730.00	9,843.00	7,967.16	97.06	40.80	92.86	-453.42	-415.99	4,935.92	4,845.87	90.05	54.813		
11,500.00	7,730.00	9,843.00	7,967.16	97.06	40.80	92.86	-453.42	-415.99	4,935.92	4,845.83	90.09	54.790		
11,600.00	7,730.00	9,932.09	7,970.74	96.98	41.89	92.90	-542.44	-416.45	4,936.28	4,844.46	91.81	53.764		
11,700.00	7,730.00	11,700.00	7,973.42	96.93	64.62	92.93	-691.66	-416.67	4,936.23	4,821.22	115.01	42.920		
11,800.00	7,730.00	10,181.73	7,973.48	96.90	45.09	92.93	-792.03	-415.96	4,935.18	4,838.77	96.41	51.189		
11,900.00	7,730.00	11,900.00	7,968.92	96.88	68.65	92.88	-972.48	-414.08	4,933.68	4,812.96	120.71	40.871		
12,000.00	7,730.00	10,438.51	7,966.55	96.88	48.58	92.85	-1,048.69	-412.58	4,931.31	4,829.74	101.57	48.550		
12,100.00	7,730.00	10,490.30	7,965.13	96.90	49.31	92.84	-1,100.46	-412.14	4,929.97	4,826.87	103.09	47.820		
12,200.00	7,730.00	10,556.00	7,964.22	96.94	50.23	92.83	-1,166.15	-412.20	4,929.58	4,824.72	104.86	47.011		
12,208.52	7,730.00	10,556.00	7,964.22	96.94	50.23	92.83	-1,166.15	-412.20	4,929.57	4,824.65	104.92	46.983		
12,300.00	7,730.00	10,603.99	7,964.28	97.00	50.91	92.83	-1,214.14	-412.62	4,930.03	4,823.67	106.36	46.351		
12,400.00	7,730.00	10,789.93	7,969.71	97.08	53.59	92.89	-1,399.99	-413.54	4,930.58	4,820.27	110.31	44.698		
12,500.00	7,730.00	10,945.18	7,974.47	97.18	55.88	92.95	-1,555.14	-411.52	4,929.07	4,815.19	113.87	43.286		
12,600.00	7,730.00	11,045.55	7,974.73	97.31	57.39	92.95	-1,655.49	-409.75	4,926.98	4,810.50	116.48	42.299		
12,700.00	7,730.00	11,112.00	7,973.10	97.46	58.40	92.93	-1,721.92	-408.97	4,925.33	4,806.88	118.46	41.579		
12,800.00	7,730.00	11,253.61	7,968.41	97.64	60.56	92.88	-1,863.44	-407.21	4,923.57	4,801.64	121.94	40.378		
12,900.00	7,730.00	11,351.59	7,965.56	97.85	62.07	92.85	-1,961.36	-405.50	4,921.35	4,796.73	124.61	39.492		
13,000.00	7,730.00	11,429.23	7,963.76	98.09	63.28	92.83	-2,038.97	-404.36	4,919.44	4,792.54	126.91	38.763		
13,100.00	7,730.00	11,499.62	7,962.36	98.35	64.38	92.81	-2,109.34	-403.70	4,918.07	4,789.00	129.07	38.103		
13,200.00	7,730.00	11,558.00	7,961.28	98.65	65.29	92.80	-2,167.72	-403.51	4,917.38	4,786.39	130.99	37.540		
13,245.58	7,730.00	11,593.54	7,960.67	98.79	65.84	92.79	-2,203.25	-403.58	4,917.29	4,785.23	132.06	37.235		
13,300.00	7,730.00	11,627.39	7,960.14	98.98	66.37	92.79	-2,237.10	-403.80	4,917.40	4,784.25	133.15	36.930		
13,400.00	7,730.00	11,685.52	7,959.36	99.34	67.28	92.78	-2,295.22	-404.51	4,918.23	4,783.15	135.08	36.409		
13,500.00	7,730.00	11,736.00	7,958.87	99.74	68.07	92.77	-2,345.68	-405.55	4,919.95	4,783.11	136.84	35.953		
13,600.00	7,730.00	11,795.97	7,958.31	100.17	69.01	92.76	-2,405.62	-407.32	4,922.57	4,783.76	138.81	35.462		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,700.00	7,730.00	11,864.85	7,957.52	100.65	70.09	92.75	-2,474.45	-410.02	4,926.06	4,785.07	140.99	34.939		
13,800.00	7,730.00	11,945.67	7,956.69	101.16	71.36	92.74	-2,555.19	-413.47	4,929.94	4,786.50	143.44	34.368		
13,900.00	7,730.00	12,028.96	7,956.06	101.71	72.68	92.73	-2,638.38	-417.42	4,934.29	4,788.31	145.97	33.803		
14,000.00	7,730.00	12,199.73	7,956.90	102.30	75.38	92.74	-2,808.99	-424.64	4,938.32	4,787.74	150.59	32.794		
14,100.00	7,730.00	12,315.44	7,958.00	102.93	77.24	92.75	-2,924.63	-428.60	4,941.50	4,787.54	153.96	32.096		
14,200.00	7,730.00	12,412.24	7,958.99	103.60	78.80	92.76	-3,021.38	-431.26	4,943.95	4,787.05	156.90	31.509		
14,300.00	7,730.00	12,474.36	7,959.08	104.32	79.81	92.76	-3,083.47	-433.40	4,947.08	4,788.06	159.01	31.111		
14,400.00	7,730.00	12,538.00	7,959.18	105.07	80.83	92.76	-3,147.05	-436.13	4,951.01	4,789.85	161.16	30.722		
14,500.00	7,730.00	12,651.26	7,960.04	105.86	82.66	92.77	-3,260.19	-441.18	4,955.17	4,790.62	164.54	30.115		
14,600.00	7,730.00	12,755.58	7,960.77	106.70	84.36	92.77	-3,364.42	-445.63	4,959.12	4,791.40	167.73	29.566		
14,700.00	7,730.00	13,450.63	7,944.44	107.57	95.94	92.59	-4,058.50	-436.28	4,959.14	4,773.59	185.55	26.727		
14,800.00	7,730.00	13,740.49	7,945.46	108.48	100.92	92.62	-4,346.70	-405.99	4,946.91	4,753.53	193.38	25.581		
14,900.00	7,730.00	13,786.00	7,946.14	109.43	101.71	92.63	-4,391.91	-400.83	4,935.44	4,740.07	195.37	25.263		
15,000.00	7,730.00	13,842.06	7,946.97	110.42	102.67	92.64	-4,447.67	-395.02	4,924.92	4,727.33	197.59	24.925		
15,100.00	7,730.00	13,875.00	7,947.50	111.43	103.24	92.65	-4,480.46	-391.96	4,915.55	4,716.31	199.24	24.671		
15,200.00	7,730.00	13,925.62	7,948.27	112.49	104.11	92.66	-4,530.91	-387.85	4,907.31	4,706.00	201.31	24.377		
15,300.00	7,730.00	13,964.00	7,948.77	113.57	104.77	92.67	-4,569.19	-385.26	4,900.32	4,697.27	203.05	24.134		
15,400.00	7,730.00	14,006.23	7,949.31	114.68	105.49	92.68	-4,611.35	-382.92	4,894.53	4,689.67	204.87	23.891		
15,500.00	7,730.00	14,053.00	7,950.00	115.82	106.29	92.69	-4,658.08	-380.94	4,889.96	4,683.18	206.78	23.648		
15,600.00	7,730.00	14,084.06	7,950.46	116.99	106.82	92.69	-4,689.12	-380.02	4,886.62	4,678.35	208.26	23.464		
15,700.00	7,730.00	14,142.00	7,951.15	118.19	107.81	92.70	-4,747.05	-379.22	4,884.71	4,674.28	210.43	23.213		
15,789.28	7,730.00	14,142.00	7,951.15	119.27	107.81	92.70	-4,747.05	-379.22	4,883.89	4,672.93	210.96	23.151		
15,800.00	7,730.00	14,142.00	7,951.15	119.41	107.81	92.70	-4,747.05	-379.22	4,883.90	4,672.89	211.02	23.144		
15,900.00	7,730.00	14,189.02	7,951.53	120.65	108.60	92.71	-4,794.07	-379.53	4,884.47	4,671.63	212.84	22.949		
16,000.00	7,730.00	14,231.00	7,951.67	121.91	109.31	92.71	-4,836.03	-380.57	4,886.48	4,671.98	214.50	22.781		
16,100.00	7,730.00	14,290.12	7,951.71	123.20	110.30	92.71	-4,895.12	-382.65	4,889.54	4,672.92	216.62	22.572		
16,200.00	7,730.00	14,605.75	7,953.13	124.50	115.64	92.72	-5,210.64	-388.14	4,891.61	4,665.72	225.89	21.655		
16,300.00	7,730.00	14,677.00	7,954.66	125.82	116.86	92.74	-5,281.87	-387.67	4,890.75	4,662.33	228.42	21.411		
16,369.69	7,730.00	14,722.57	7,955.65	126.75	117.64	92.75	-5,327.43	-387.62	4,890.53	4,660.46	230.07	21.257		
16,400.00	7,730.00	14,739.92	7,956.00	127.16	117.93	92.75	-5,344.78	-387.69	4,890.57	4,659.86	230.72	21.197		
16,500.00	7,730.00	14,797.43	7,957.05	128.52	118.91	92.77	-5,402.27	-388.24	4,891.27	4,658.43	232.85	21.007		
16,600.00	7,730.00	14,855.00	7,957.78	129.89	119.89	92.77	-5,459.83	-389.30	4,892.84	4,657.88	234.96	20.824		
16,700.00	7,730.00	14,910.15	7,958.14	131.27	120.83	92.78	-5,514.96	-390.82	4,895.30	4,658.31	236.99	20.656		
16,800.00	7,730.00	14,976.63	7,958.21	132.67	121.95	92.78	-5,581.39	-393.29	4,898.63	4,659.30	239.33	20.468		
16,900.00	7,730.00	15,158.63	7,960.90	134.09	125.04	92.81	-5,763.26	-399.21	4,901.80	4,656.77	245.03	20.005		
17,000.00	7,730.00	15,282.63	7,965.86	135.51	127.16	92.86	-5,887.14	-401.47	4,903.48	4,654.41	249.07	19.687		
17,100.00	7,730.00	15,406.23	7,970.13	136.95	129.27	92.91	-6,010.66	-403.16	4,904.68	4,651.58	253.10	19.378		
17,200.00	7,730.00	15,481.19	7,972.39	138.40	130.56	92.94	-6,085.57	-404.29	4,905.98	4,650.24	255.74	19.184		
17,300.00	7,730.00	15,632.06	7,977.33	139.85	133.15	92.99	-6,236.35	-406.01	4,906.96	4,646.39	260.57	18.832		
17,400.00	7,730.00	15,727.68	7,980.20	141.32	134.79	93.03	-6,331.93	-406.55	4,907.34	4,643.52	263.81	18.602		
17,500.00	7,730.00	15,839.69	7,984.13	142.80	136.72	93.07	-6,443.86	-407.23	4,907.80	4,640.27	267.54	18.344		
17,600.00	7,730.00	15,900.84	7,986.21	144.28	137.77	93.10	-6,504.97	-407.76	4,908.50	4,638.71	269.79	18.194		
17,700.00	7,730.00	15,971.14	7,988.40	145.78	138.98	93.12	-6,575.23	-408.88	4,909.91	4,637.60	272.30	18.031		
17,800.00	7,730.00	16,045.57	7,990.86	147.28	140.26	93.15	-6,649.60	-410.44	4,911.85	4,636.92	274.93	17.866		
17,900.00	7,730.00	16,118.23	7,993.33	148.79	141.50	93.18	-6,722.20	-412.34	4,914.31	4,636.82	277.49	17.710		
18,000.00	7,730.00	16,191.00	7,995.68	150.31	142.75	93.20	-6,794.89	-414.73	4,917.41	4,637.36	280.05	17.559		
18,100.00	7,730.00	16,238.27	7,997.08	151.83	143.55	93.22	-6,842.09	-416.68	4,921.30	4,639.48	281.82	17.462		
18,200.00	7,730.00	16,299.49	7,998.72	153.37	144.60	93.24	-6,903.21	-419.79	4,926.15	4,642.15	284.00	17.346		
18,300.00	7,730.00	16,390.13	8,001.35	154.90	146.14	93.26	-6,993.69	-424.67	4,931.35	4,644.27	287.08	17.178		
18,400.00	7,730.00	16,463.52	8,003.02	156.45	147.39	93.28	-7,066.93	-428.96	4,936.98	4,647.37	289.62	17.047		
18,500.00	7,730.00	16,558.34	8,004.56	158.00	149.00	93.29	-7,161.56	-434.84	4,942.93	4,650.11	292.82	16.880		
18,600.00	7,730.00	16,657.90	8,006.11	159.55	150.70	93.31	-7,260.92	-441.01	4,948.87	4,652.68	296.18	16.709		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 229-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,700.00	7,730.00	17,034.86	8,001.68	161.11	157.15	93.25	-7,637.41	-457.01	4,954.46	4,646.51	307.95	16.089	
18,800.00	7,730.00	17,240.94	7,992.66	162.68	160.72	93.14	-7,843.29	-456.88	4,953.83	4,639.46	314.37	15.758	
18,900.00	7,730.00	17,608.28	7,997.11	164.25	167.17	93.21	-8,209.95	-439.52	4,947.33	4,622.36	324.97	15.224	
19,000.00	7,730.00	17,732.38	8,002.35	165.83	169.36	93.27	-8,333.61	-430.46	4,939.93	4,610.89	329.04	15.013	
19,100.00	7,730.00	17,796.00	8,005.06	167.41	170.48	93.31	-8,396.99	-425.68	4,932.45	4,600.87	331.58	14.876	
19,200.00	7,730.00	17,796.00	8,005.06	168.99	170.48	93.31	-8,396.99	-425.68	4,926.58	4,594.16	332.42	14.820	
19,300.00	7,730.00	17,796.00	8,005.06	170.58	170.48	93.31	-8,396.99	-425.68	4,922.74	4,589.59	333.14	14.777	
19,400.00	7,730.00	17,796.00	8,005.06	172.17	170.48	93.31	-8,396.99	-425.68	4,920.92	4,587.18	333.74	14.745	
19,430.54	7,730.00	17,796.00	8,005.06	172.66	170.48	93.31	-8,396.99	-425.68	4,920.77	4,586.87	333.90	14.737 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.69	786.89	-1,070.98	1,329.01					
100.00	100.00	89.73	89.73	0.13	0.15	-53.70	786.86	-1,071.01	1,328.99	1,328.70	0.28	4,684.770 CC		
200.00	200.00	189.42	189.42	0.49	0.32	-53.70	786.77	-1,071.11	1,329.02	1,328.21	0.81	1,644.842		
300.00	300.00	289.12	289.12	0.85	0.48	-53.71	786.62	-1,071.29	1,329.07	1,327.74	1.33	997.578		
400.00	400.00	386.82	386.81	1.21	0.77	-53.72	786.54	-1,071.51	1,329.20	1,327.23	1.98	671.758		
500.00	500.00	483.70	483.70	1.57	1.11	-53.71	786.89	-1,071.68	1,329.56	1,326.89	2.67	497.049 ES		
600.00	599.98	580.56	580.56	1.92	1.44	-119.08	787.68	-1,071.81	1,331.00	1,327.63	3.37	395.366		
700.00	699.84	684.40	684.39	2.28	1.81	-119.21	788.42	-1,072.01	1,334.12	1,330.04	4.08	326.748		
800.00	799.45	788.51	788.43	2.64	2.17	-119.31	791.52	-1,070.04	1,338.62	1,333.81	4.81	278.447		
900.00	898.70	890.18	889.93	3.02	2.53	-119.43	796.08	-1,066.75	1,344.62	1,339.09	5.54	242.923		
1,000.00	997.47	994.46	993.93	3.41	2.90	-119.57	802.20	-1,062.05	1,352.15	1,345.85	6.30	214.796		
1,100.00	1,095.62	1,088.94	1,087.86	3.84	3.25	-119.65	810.24	-1,055.91	1,361.33	1,354.28	7.05	193.125		
1,200.00	1,193.06	1,234.72	1,232.61	4.29	3.80	-119.98	822.23	-1,043.53	1,370.32	1,362.29	8.03	170.748		
1,300.00	1,289.64	1,320.80	1,318.06	4.78	4.14	-120.20	828.69	-1,035.41	1,380.13	1,371.32	8.82	156.563		
1,400.00	1,385.27	1,399.54	1,395.94	5.32	4.45	-120.33	837.27	-1,027.69	1,393.29	1,383.67	9.62	144.866		
1,500.00	1,479.82	1,482.26	1,477.05	5.90	4.80	-120.35	850.21	-1,017.98	1,409.33	1,398.84	10.49	134.370		
1,600.00	1,573.17	1,562.30	1,555.07	6.53	5.16	-120.31	865.21	-1,008.32	1,428.53	1,417.13	11.40	125.322		
1,700.00	1,665.21	1,655.89	1,646.56	7.23	5.58	-120.43	881.96	-997.92	1,449.89	1,437.48	12.42	116.784		
1,800.00	1,755.84	1,729.10	1,718.40	7.98	5.90	-120.52	894.42	-991.24	1,474.27	1,460.90	13.36	110.314		
1,900.00	1,844.94	1,856.89	1,843.85	8.80	6.47	-121.12	915.74	-979.53	1,500.51	1,485.88	14.62	102.599		
2,000.00	1,932.39	1,951.21	1,936.58	9.68	6.89	-121.54	929.89	-969.63	1,526.82	1,511.06	15.76	96.898		
2,100.00	2,018.11	2,041.20	2,025.11	10.63	7.29	-121.97	943.58	-961.21	1,556.29	1,539.38	16.90	92.079		
2,200.00	2,101.97	2,190.65	2,172.01	11.65	7.97	-123.10	964.89	-943.93	1,585.71	1,567.33	18.38	86.262		
2,300.00	2,183.88	2,264.50	2,244.55	12.74	8.31	-123.43	975.14	-934.57	1,616.51	1,596.99	19.52	82.811		
2,400.00	2,263.74	2,335.40	2,314.18	13.90	8.63	-123.71	985.47	-926.18	1,650.65	1,629.99	20.67	79.870		
2,431.61	2,288.54	2,357.03	2,335.43	14.29	8.73	-123.78	988.73	-923.73	1,662.15	1,641.12	21.03	79.040		
2,500.00	2,341.97	2,402.65	2,380.23	15.13	8.94	-124.37	995.72	-918.83	1,687.79	1,665.99	21.80	77.409		
2,600.00	2,420.08	2,472.86	2,449.24	16.37	9.26	-125.26	1,006.72	-911.92	1,726.62	1,703.68	22.94	75.265		
2,700.00	2,498.20	2,546.36	2,521.58	17.63	9.59	-126.17	1,017.97	-905.40	1,766.70	1,742.63	24.08	73.377		
2,800.00	2,576.32	2,618.95	2,593.13	18.89	9.92	-127.07	1,028.79	-899.65	1,807.97	1,782.78	25.19	71.777		
2,900.00	2,654.43	2,693.23	2,666.30	20.17	10.25	-127.94	1,040.32	-894.15	1,850.38	1,824.09	26.29	70.371		
3,000.00	2,732.55	2,799.47	2,770.64	21.45	10.73	-129.08	1,058.29	-885.49	1,893.11	1,865.50	27.61	68.571		
3,100.00	2,810.67	2,974.44	2,941.94	22.74	11.57	-130.77	1,088.00	-865.95	1,933.89	1,904.53	29.36	65.873		
3,200.00	2,888.78	3,060.46	3,026.00	24.03	11.98	-131.56	1,102.01	-854.25	1,972.72	1,942.18	30.54	64.590		
3,300.00	2,966.90	3,121.64	3,085.98	25.33	12.27	-132.12	1,111.42	-846.69	2,012.70	1,981.16	31.55	63.796		
3,400.00	3,045.02	3,274.52	3,235.95	26.63	12.99	-133.52	1,133.09	-826.55	2,051.92	2,018.84	33.08	62.028		
3,500.00	3,123.13	3,348.68	3,308.62	27.94	13.34	-134.16	1,143.31	-815.83	2,090.48	2,056.35	34.13	61.244		
3,600.00	3,201.25	3,407.95	3,366.95	29.24	13.62	-134.70	1,150.62	-808.33	2,130.51	2,095.44	35.07	60.755		
3,700.00	3,279.37	3,475.40	3,433.38	30.55	13.92	-135.28	1,159.31	-800.44	2,171.85	2,135.82	36.03	60.282		
3,800.00	3,357.49	3,546.31	3,503.08	31.86	14.25	-135.86	1,169.61	-792.46	2,214.23	2,177.22	37.01	59.827		
3,900.00	3,435.60	3,631.88	3,587.08	33.18	14.65	-136.50	1,182.98	-783.05	2,257.33	2,219.25	38.09	59.267		
4,000.00	3,513.72	3,717.91	3,671.53	34.49	15.06	-137.13	1,196.28	-773.48	2,300.55	2,261.39	39.16	58.747		
4,100.00	3,591.84	4,100.00	3,781.57	35.81	16.90	-137.89	1,214.68	-760.07	2,343.44	2,301.76	41.68	56.226		
4,200.00	3,669.95	3,900.80	3,850.64	37.12	15.93	-138.35	1,225.85	-751.32	2,386.17	2,344.79	41.38	57.671		
4,300.00	3,748.07	3,964.00	3,912.75	38.44	16.23	-138.78	1,235.58	-744.81	2,430.60	2,388.34	42.26	57.514		
4,400.00	3,826.19	4,044.56	3,992.05	39.76	16.60	-139.31	1,247.51	-737.10	2,475.88	2,432.64	43.24	57.254		
4,500.00	3,904.30	4,128.12	4,074.25	41.08	16.99	-139.85	1,259.92	-728.71	2,521.01	2,476.76	44.24	56.982		
4,600.00	3,982.42	4,214.75	4,159.29	42.40	17.39	-140.36	1,273.88	-719.94	2,566.43	2,521.15	45.27	56.686		
4,700.00	4,060.54	4,282.16	4,225.44	43.72	17.71	-140.74	1,285.07	-713.24	2,612.25	2,566.09	46.16	56.590		
4,800.00	4,138.66	4,405.33	4,346.50	45.05	18.28	-141.43	1,304.40	-701.49	2,658.62	2,611.18	47.44	56.040		
4,900.00	4,216.77	4,545.80	4,483.74	46.37	18.98	-142.12	1,328.96	-684.37	2,702.79	2,653.90	48.89	55.280		
5,000.00	4,294.89	4,613.29	4,549.56	47.69	19.31	-142.43	1,340.97	-675.60	2,746.58	2,696.78	49.80	55.154		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,655.14	4,590.48	49.02	19.52	-142.62	1,348.33	-670.82	2,791.77	2,741.29	50.49	55.297		
5,200.00	4,451.12	4,742.50	4,676.06	50.34	19.94	-143.02	1,363.49	-661.97	2,838.17	2,786.65	51.51	55.094		
5,300.00	4,529.24	4,898.55	4,828.95	51.67	20.69	-143.74	1,388.65	-643.51	2,882.94	2,829.90	53.04	54.355		
5,400.00	4,607.36	4,972.76	4,901.54	52.99	21.05	-144.06	1,400.74	-633.99	2,927.12	2,873.17	53.95	54.255		
5,500.00	4,685.47	5,033.00	4,960.57	54.32	21.35	-144.32	1,410.51	-626.93	2,972.31	2,917.56	54.75	54.289		
5,600.00	4,763.59	5,078.01	5,004.79	55.64	21.55	-144.52	1,417.49	-622.22	3,018.58	2,963.18	55.41	54.481		
5,700.00	4,841.71	5,160.17	5,085.78	56.97	21.93	-144.91	1,428.98	-614.57	3,065.92	3,009.61	56.32	54.441		
5,800.00	4,919.83	5,282.99	5,206.88	58.30	22.48	-145.48	1,444.85	-601.66	3,112.16	3,054.67	57.50	54.126		
5,900.00	4,997.94	5,429.95	5,351.57	59.62	23.15	-146.14	1,464.10	-584.66	3,157.85	3,099.00	58.85	53.658		
6,000.00	5,076.06	5,512.55	5,432.50	60.95	23.55	-146.46	1,476.44	-573.70	3,202.20	3,142.42	59.78	53.568		
6,100.00	5,154.18	5,567.00	5,486.01	62.28	23.80	-146.67	1,484.23	-567.28	3,247.76	3,187.27	60.49	53.694		
6,200.00	5,232.29	5,639.27	5,557.11	63.61	24.14	-146.96	1,494.40	-559.29	3,294.11	3,232.80	61.31	53.726		
6,300.00	5,310.41	5,747.65	5,663.68	64.93	24.64	-147.37	1,509.72	-546.86	3,340.26	3,277.85	62.40	53.526		
6,400.00	5,388.53	5,839.09	5,753.63	66.26	25.07	-147.72	1,522.14	-536.05	3,386.15	3,322.79	63.36	53.444		
6,500.00	5,466.64	5,923.00	5,836.05	67.59	25.46	-148.02	1,533.99	-525.73	3,431.75	3,367.49	64.27	53.399		
6,600.00	5,544.76	5,971.12	5,883.37	68.92	25.68	-148.19	1,540.72	-520.11	3,478.11	3,413.22	64.89	53.598		
6,700.00	5,622.88	6,012.00	5,923.72	70.25	25.87	-148.35	1,545.88	-516.09	3,525.88	3,460.43	65.44	53.876		
6,800.00	5,701.00	6,100.07	6,010.71	71.58	26.25	-148.68	1,556.93	-507.97	3,574.35	3,508.01	66.34	53.880		
6,900.00	5,779.11	6,198.88	6,108.18	72.91	26.69	-149.02	1,570.08	-498.45	3,622.56	3,555.23	67.33	53.804		
7,000.00	5,857.23	6,302.06	6,209.93	74.23	27.16	-149.37	1,583.74	-488.12	3,670.52	3,602.17	68.35	53.703		
7,100.00	5,935.35	6,436.00	6,341.93	75.56	27.76	-149.81	1,601.15	-473.61	3,717.87	3,648.28	69.59	53.423		
7,200.00	6,013.46	6,566.72	6,470.48	76.89	28.37	-150.22	1,618.53	-457.43	3,763.81	3,693.00	70.82	53.150		
7,300.00	6,091.58	6,618.96	6,521.90	78.22	28.61	-150.39	1,625.13	-451.03	3,810.04	3,738.59	71.45	53.325		
7,400.00	6,169.70	6,683.45	6,585.53	79.55	28.89	-150.60	1,632.64	-443.67	3,857.03	3,784.88	72.15	53.458		
7,500.00	6,247.81	7,218.52	7,106.34	80.88	30.74	-153.42	1,614.88	-353.67	3,897.56	3,823.33	74.24	52.501		
7,600.00	6,325.93	7,261.00	7,145.58	82.21	30.81	-153.82	1,600.64	-345.85	3,936.76	3,862.26	74.50	52.845		
7,700.00	6,404.05	7,261.00	7,145.58	83.54	30.81	-153.82	1,600.64	-345.85	3,976.87	3,902.03	74.84	53.137		
7,800.00	6,482.17	7,261.00	7,145.58	84.87	30.81	-153.82	1,600.64	-345.85	4,019.08	3,943.93	75.15	53.482		
7,900.00	6,560.28	7,261.00	7,145.58	86.20	30.81	-153.82	1,600.64	-345.85	4,063.30	3,987.89	75.42	53.878		
8,000.00	6,638.40	7,261.00	7,145.58	87.53	30.81	-153.82	1,600.64	-345.85	4,109.49	4,033.84	75.65	54.324		
8,100.00	6,716.52	7,303.46	7,184.35	88.86	30.83	-154.24	1,584.37	-339.94	4,156.53	4,080.79	75.74	54.880		
8,200.00	6,794.63	7,350.00	7,226.12	90.20	30.86	-154.72	1,564.40	-335.35	4,206.26	4,130.48	75.78	55.506		
8,300.00	6,872.75	7,350.00	7,226.12	91.53	30.86	-154.72	1,564.40	-335.35	4,256.55	4,180.61	75.94	56.052		
8,400.00	6,950.87	7,350.00	7,226.12	92.86	30.86	-154.72	1,564.40	-335.35	4,308.57	4,232.50	76.07	56.641		
8,500.00	7,028.98	7,365.41	7,239.75	94.19	30.86	-154.89	1,557.30	-334.17	4,362.22	4,286.09	76.12	57.303		
8,600.00	7,107.10	7,399.65	7,269.56	95.52	30.85	-155.26	1,540.65	-331.67	4,417.07	4,340.97	76.10	58.044		
8,647.91	7,144.53	7,415.00	7,282.71	96.16	30.85	-155.43	1,532.79	-330.59	4,443.75	4,367.67	76.08	58.409		
8,650.00	7,146.16	7,415.66	7,283.27	96.18	30.85	-155.83	1,532.45	-330.54	4,444.92	4,368.85	76.08	58.425		
8,700.00	7,185.66	7,439.00	7,302.97	96.84	30.85	-165.67	1,520.04	-328.96	4,473.19	4,397.16	76.03	58.837		
8,750.00	7,225.78	7,439.00	7,302.97	97.47	30.85	-175.77	1,520.04	-328.96	4,501.77	4,425.72	76.05	59.194		
8,800.00	7,266.21	7,465.87	7,325.21	98.08	30.83	173.66	1,505.06	-327.23	4,530.41	4,454.45	75.96	59.645		
8,850.00	7,306.63	7,483.80	7,339.75	98.64	30.82	163.24	1,494.63	-326.13	4,558.90	4,483.02	75.88	60.077		
8,900.00	7,346.75	7,502.34	7,354.54	99.17	30.80	153.18	1,483.51	-325.04	4,587.00	4,511.21	75.80	60.516		
8,950.00	7,386.25	7,528.00	7,374.56	99.64	30.79	143.71	1,467.52	-323.62	4,614.50	4,538.83	75.67	60.985		
9,000.00	7,424.84	7,528.00	7,374.56	100.06	30.79	135.10	1,467.52	-323.62	4,641.18	4,565.53	75.65	61.350		
9,050.00	7,462.22	7,528.00	7,374.56	100.42	30.79	127.31	1,467.52	-323.62	4,667.00	4,591.37	75.63	61.708		
9,100.00	7,498.11	7,567.85	7,404.63	100.74	30.74	120.31	1,441.45	-321.72	4,691.30	4,615.89	75.41	62.211		
9,150.00	7,532.24	7,583.37	7,416.00	100.99	30.72	114.21	1,430.90	-321.11	4,714.43	4,639.12	75.31	62.599		
9,200.00	7,564.34	7,617.00	7,439.95	101.19	30.69	108.91	1,407.32	-320.04	4,736.13	4,661.01	75.12	63.049		
9,250.00	7,594.17	7,617.00	7,439.95	101.34	30.69	104.32	1,407.32	-320.04	4,755.97	4,680.85	75.12	63.308		
9,300.00	7,621.50	7,617.00	7,439.95	101.45	30.69	100.38	1,407.32	-320.04	4,774.16	4,699.01	75.15	63.531		
9,350.00	7,646.13	7,617.00	7,439.95	101.50	30.69	97.02	1,407.32	-320.04	4,790.58	4,715.39	75.19	63.715		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,617.00	7,439.95	101.51	30.69	94.20	1,407.32	-320.04	4,805.12	4,729.86	75.25	63.853		
9,450.00	7,686.55	7,657.32	7,467.32	101.48	30.62	92.07	1,377.73	-319.49	4,816.95	4,741.84	75.11	64.135		
9,500.00	7,702.04	7,667.58	7,474.04	101.42	30.60	90.29	1,369.98	-319.51	4,827.05	4,751.88	75.17	64.219		
9,550.00	7,714.20	7,707.00	7,498.87	101.33	30.54	89.11	1,339.37	-320.22	4,835.34	4,760.28	75.06	64.417		
9,600.00	7,722.96	7,707.00	7,498.87	101.20	30.54	88.14	1,339.37	-320.22	4,840.78	4,765.53	75.25	64.327		
9,650.00	7,728.24	7,707.00	7,498.87	101.06	30.54	87.57	1,339.37	-320.22	4,844.05	4,768.57	75.48	64.178		
9,699.97	7,730.00	7,707.00	7,498.87	100.90	30.54	87.38	1,339.37	-320.22	4,845.12	4,769.38	75.74	63.970		
9,702.70	7,730.00	7,707.00	7,498.87	100.89	30.54	87.38	1,339.37	-320.22	4,845.12	4,769.37	75.76	63.956		
9,800.00	7,730.00	7,707.00	7,498.87	100.56	30.54	87.38	1,339.37	-320.22	4,846.10	4,769.78	76.32	63.497		
9,900.00	7,730.00	7,755.53	7,527.15	100.24	30.44	87.72	1,299.99	-322.21	4,848.35	4,771.78	76.57	63.317		
10,000.00	7,730.00	8,118.83	7,656.00	99.93	29.69	89.24	963.58	-332.28	4,851.92	4,777.55	74.37	65.240		
10,100.00	7,730.00	8,226.22	7,670.20	99.64	29.51	89.41	857.16	-331.12	4,850.35	4,776.08	74.27	65.305		
10,200.00	7,730.00	8,302.07	7,675.53	99.36	29.43	89.47	781.51	-330.24	4,848.79	4,774.32	74.46	65.116		
10,300.00	7,730.00	8,535.04	7,680.74	99.09	30.30	89.54	548.71	-324.17	4,845.37	4,771.08	74.29	65.220		
10,400.00	7,730.00	8,568.27	7,681.18	98.84	30.52	89.54	515.50	-323.19	4,842.07	4,767.21	74.86	64.680		
10,500.00	7,730.00	8,610.60	7,681.60	98.61	30.81	89.55	473.18	-322.56	4,840.13	4,764.68	75.46	64.145		
10,600.00	7,730.00	8,686.00	7,682.16	98.39	31.36	89.55	397.78	-321.75	4,838.77	4,762.68	76.10	63.588		
10,673.92	7,730.00	8,714.85	7,682.33	98.23	31.58	89.55	368.94	-321.65	4,838.37	4,761.75	76.62	63.150		
10,700.00	7,730.00	8,722.49	7,682.36	98.18	31.64	89.55	361.29	-321.69	4,838.42	4,761.63	76.79	63.006		
10,800.00	7,730.00	8,775.00	7,682.58	97.99	32.06	89.56	308.80	-322.76	4,839.74	4,762.21	77.53	62.425		
10,900.00	7,730.00	8,789.73	7,682.64	97.81	32.18	89.56	294.07	-323.27	4,842.12	4,763.86	78.25	61.877		
11,000.00	7,730.00	8,864.00	7,683.40	97.64	32.80	89.57	219.86	-326.09	4,845.56	4,766.44	79.12	61.244		
11,100.00	7,730.00	8,945.31	7,684.99	97.50	33.52	89.59	138.65	-329.56	4,849.46	4,769.36	80.10	60.539		
11,200.00	7,730.00	11,200.00	7,688.79	97.36	56.43	89.63	-8.00	-335.71	4,853.42	4,751.82	101.60	47.772		
11,300.00	7,730.00	9,322.55	7,691.13	97.24	37.37	89.66	-238.34	-339.95	4,854.60	4,770.70	83.90	57.865		
11,400.00	7,730.00	9,439.03	7,689.60	97.14	38.71	89.64	-354.80	-340.66	4,854.88	4,769.22	85.66	56.676		
11,500.00	7,730.00	9,563.89	7,687.56	97.06	40.21	89.62	-479.65	-340.80	4,854.66	4,767.00	87.65	55.384		
11,600.00	7,730.00	9,652.97	7,685.50	96.98	41.32	89.59	-568.70	-340.75	4,854.28	4,764.91	89.38	54.314		
11,700.00	7,730.00	9,800.23	7,684.01	96.93	43.21	89.58	-715.95	-340.33	4,853.70	4,761.78	91.93	52.800		
11,800.00	7,730.00	9,934.11	7,684.04	96.90	45.00	89.58	-849.82	-338.61	4,852.06	4,757.58	94.48	51.356		
11,900.00	7,730.00	10,117.27	7,681.93	96.88	47.53	89.55	-1,032.90	-334.24	4,849.37	4,751.44	97.93	49.517		
12,000.00	7,730.00	10,158.71	7,681.25	96.88	48.12	89.54	-1,074.32	-333.18	4,846.42	4,747.12	99.30	48.805		
12,100.00	7,730.00	10,214.41	7,680.84	96.90	48.91	89.54	-1,130.02	-332.37	4,844.56	4,743.65	100.91	48.008		
12,200.00	7,730.00	10,289.00	7,680.33	96.94	49.97	89.53	-1,204.60	-331.36	4,842.99	4,740.14	102.86	47.085		
12,300.00	7,730.00	10,351.47	7,680.42	97.00	50.87	89.53	-1,267.06	-330.93	4,842.13	4,737.50	104.63	46.278		
12,313.62	7,730.00	10,357.36	7,680.49	97.01	50.96	89.53	-1,272.96	-330.94	4,842.11	4,737.28	104.83	46.189		
12,400.00	7,730.00	10,427.75	7,681.77	97.08	51.98	89.55	-1,343.34	-331.46	4,842.40	4,735.72	106.68	45.392		
12,500.00	7,730.00	10,532.41	7,683.41	97.18	53.52	89.57	-1,447.98	-332.00	4,842.56	4,733.28	109.28	44.314		
12,600.00	7,730.00	10,660.77	7,684.67	97.31	55.43	89.58	-1,576.33	-332.39	4,842.54	4,730.16	112.38	43.091		
12,700.00	7,730.00	10,753.20	7,684.30	97.46	56.82	89.58	-1,668.75	-332.31	4,842.13	4,727.27	114.85	42.159		
12,725.53	7,730.00	10,767.88	7,684.27	97.51	57.04	89.58	-1,683.44	-332.34	4,842.10	4,726.78	115.32	41.988		
12,800.00	7,730.00	10,824.00	7,684.80	97.64	57.89	89.58	-1,739.55	-332.78	4,842.37	4,725.43	116.94	41.409		
12,900.00	7,730.00	12,900.00	7,687.17	97.85	90.30	89.61	-1,982.78	-330.89	4,841.22	4,689.93	151.29	32.001		
13,000.00	7,730.00	11,122.54	7,687.38	98.09	62.50	89.61	-2,038.04	-329.69	4,838.88	4,714.42	124.46	38.879		
13,100.00	7,730.00	11,151.34	7,687.61	98.35	62.95	89.62	-2,066.84	-329.53	4,837.96	4,712.21	125.75	38.471		
13,138.58	7,730.00	11,181.00	7,687.98	98.46	63.42	89.62	-2,096.50	-329.80	4,838.13	4,711.47	126.65	38.200		
13,200.00	7,730.00	11,181.00	7,687.98	98.65	63.42	89.62	-2,096.50	-329.80	4,838.52	4,711.45	127.06	38.080		
13,300.00	7,730.00	11,258.57	7,688.77	98.98	64.63	89.63	-2,174.05	-331.25	4,840.04	4,710.64	129.40	37.403		
13,400.00	7,730.00	13,400.00	7,694.07	99.34	98.69	89.69	-2,342.72	-333.51	4,840.99	4,675.70	165.29	29.287		
13,500.00	7,730.00	11,644.73	7,699.25	99.74	70.77	89.75	-2,560.00	-331.60	4,839.38	4,699.94	139.44	34.706		
13,600.00	7,730.00	11,715.00	7,699.15	100.17	71.91	89.75	-2,630.26	-330.28	4,837.28	4,695.55	141.73	34.130		
13,700.00	7,730.00	11,771.30	7,698.57	100.65	72.82	89.75	-2,686.54	-329.64	4,836.00	4,692.30	143.70	33.654		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,761.32	7,730.00	11,804.00	7,698.13	100.95	73.35	89.74	-2,719.24	-329.72	4,835.88	4,691.02	144.86	33.383		
13,800.00	7,730.00	11,804.00	7,698.13	101.16	73.35	89.74	-2,719.24	-329.72	4,836.04	4,690.93	145.10	33.328		
13,900.00	7,730.00	11,862.99	7,697.37	101.71	74.30	89.73	-2,778.23	-330.53	4,837.15	4,690.03	147.12	32.878		
14,000.00	7,730.00	11,929.92	7,696.61	102.30	75.38	89.72	-2,845.13	-332.19	4,839.25	4,689.91	149.33	32.406		
14,100.00	7,730.00	12,007.44	7,694.99	102.93	76.63	89.70	-2,922.60	-334.34	4,841.72	4,689.92	151.80	31.896		
14,200.00	7,730.00	12,072.00	7,694.03	103.60	77.67	89.69	-2,987.11	-336.68	4,844.96	4,691.01	153.95	31.471		
14,300.00	7,730.00	12,277.95	7,696.12	104.32	81.02	89.72	-3,192.96	-342.59	4,847.59	4,687.95	159.65	30.364		
14,400.00	7,730.00	12,359.24	7,695.79	105.07	82.35	89.71	-3,274.23	-344.00	4,849.01	4,686.74	162.27	29.882		
14,500.00	7,730.00	12,428.00	7,695.80	105.86	83.47	89.71	-3,342.96	-345.86	4,851.28	4,686.69	164.59	29.476		
14,600.00	7,730.00	12,664.88	7,697.04	106.70	87.38	89.73	-3,579.77	-349.86	4,853.16	4,681.96	171.20	28.348		
14,700.00	7,730.00	12,799.97	7,698.77	107.57	89.64	89.75	-3,714.84	-349.03	4,852.15	4,676.88	175.27	27.684		
14,800.00	7,730.00	12,857.33	7,700.11	108.48	90.60	89.77	-3,772.18	-348.81	4,851.41	4,674.04	177.37	27.352		
14,846.32	7,730.00	12,889.36	7,701.40	108.92	91.13	89.78	-3,804.18	-348.89	4,851.36	4,672.87	178.49	27.180		
14,900.00	7,730.00	12,935.64	7,703.40	109.43	91.91	89.80	-3,850.42	-349.09	4,851.40	4,671.38	180.02	26.949		
15,000.00	7,730.00	13,117.38	7,711.00	110.42	94.96	89.89	-4,032.00	-348.99	4,851.23	4,665.83	185.39	26.167		
15,100.00	7,730.00	13,237.83	7,714.53	111.43	97.00	89.94	-4,152.39	-347.16	4,849.34	4,660.17	189.18	25.634		
15,200.00	7,730.00	13,342.52	7,716.55	112.49	98.77	89.96	-4,257.04	-345.38	4,847.30	4,654.75	192.56	25.173		
15,300.00	7,730.00	13,452.59	7,718.31	113.57	100.64	89.98	-4,367.08	-343.57	4,845.33	4,649.24	196.09	24.710		
15,400.00	7,730.00	13,595.04	7,720.30	114.68	103.06	90.00	-4,509.46	-339.78	4,842.20	4,641.72	200.48	24.153		
15,500.00	7,730.00	13,682.00	7,721.25	115.82	104.54	90.01	-4,596.39	-337.47	4,839.20	4,635.77	203.43	23.788		
15,600.00	7,730.00	13,743.94	7,721.91	116.99	105.60	90.02	-4,658.31	-336.10	4,836.69	4,630.98	205.71	23.512		
15,700.00	7,730.00	13,786.00	7,722.39	118.19	106.32	90.03	-4,700.36	-335.51	4,835.10	4,627.65	207.45	23.308		
15,800.00	7,730.00	13,855.05	7,723.23	119.41	107.49	90.04	-4,769.41	-335.17	4,834.36	4,624.46	209.90	23.032		
15,831.44	7,730.00	13,875.00	7,723.49	119.79	107.83	90.04	-4,789.36	-335.23	4,834.33	4,623.71	210.62	22.953		
15,900.00	7,730.00	13,913.00	7,723.98	120.65	108.47	90.05	-4,827.35	-335.50	4,834.57	4,622.53	212.04	22.801		
16,000.00	7,730.00	16,000.00	7,721.92	121.91	144.31	90.02	-5,123.44	-333.26	4,834.06	4,582.61	251.45	19.225		
16,100.00	7,730.00	14,293.82	7,719.15	123.20	114.98	89.99	-5,207.99	-330.51	4,830.52	4,606.96	223.56	21.607		
16,200.00	7,730.00	14,352.73	7,717.18	124.50	115.99	89.97	-5,266.84	-329.15	4,827.86	4,602.09	225.77	21.384		
16,300.00	7,730.00	14,409.00	7,715.33	125.82	116.96	89.94	-5,323.08	-328.27	4,826.00	4,598.10	227.90	21.176		
16,400.00	7,730.00	14,472.60	7,713.26	127.16	118.05	89.92	-5,386.64	-327.79	4,824.96	4,594.74	230.21	20.959		
16,474.08	7,730.00	14,514.36	7,711.89	128.17	118.76	89.90	-5,428.38	-327.82	4,824.76	4,592.99	231.77	20.817		
16,500.00	7,730.00	14,528.49	7,711.43	128.52	119.00	89.90	-5,442.51	-327.89	4,824.81	4,592.51	232.30	20.770		
16,600.00	7,730.00	14,588.00	7,709.46	129.89	120.02	89.87	-5,501.98	-328.59	4,825.61	4,591.13	234.48	20.580		
16,700.00	7,730.00	14,645.61	7,707.60	131.27	121.00	89.85	-5,559.55	-329.75	4,827.26	4,590.68	236.58	20.404		
16,800.00	7,730.00	14,705.87	7,705.77	132.67	122.03	89.83	-5,619.75	-331.41	4,829.70	4,590.95	238.75	20.229		
16,900.00	7,730.00	14,766.00	7,704.16	134.09	123.05	89.81	-5,679.82	-333.61	4,833.00	4,592.10	240.90	20.062		
17,000.00	7,730.00	14,815.36	7,702.98	135.51	123.88	89.80	-5,729.12	-335.87	4,837.23	4,594.52	242.71	19.930		
17,100.00	7,730.00	14,870.83	7,701.75	136.95	124.82	89.78	-5,784.48	-338.96	4,842.45	4,597.76	244.69	19.790		
17,200.00	7,730.00	14,944.00	7,700.62	138.40	126.05	89.77	-5,857.50	-343.61	4,848.45	4,601.25	247.19	19.614		
17,300.00	7,730.00	15,007.37	7,700.19	139.85	127.11	89.77	-5,920.71	-348.05	4,855.08	4,605.69	249.39	19.468		
17,400.00	7,730.00	15,077.79	7,700.37	141.32	128.30	89.77	-5,990.92	-353.39	4,862.33	4,610.53	251.80	19.311		
17,500.00	7,730.00	15,178.61	7,701.82	142.80	129.99	89.79	-6,091.40	-361.53	4,870.06	4,614.90	255.16	19.087		
17,600.00	7,730.00	15,937.61	7,731.49	144.28	143.03	90.14	-6,848.97	-373.91	4,874.75	4,597.08	277.67	17.556		
17,700.00	7,730.00	16,010.40	7,733.40	145.78	144.30	90.16	-6,921.63	-370.09	4,869.14	4,588.76	280.38	17.366		
17,800.00	7,730.00	16,077.19	7,734.65	147.28	145.47	90.17	-6,988.34	-366.91	4,864.05	4,581.13	282.92	17.192		
17,900.00	7,730.00	16,143.83	7,735.71	148.79	146.63	90.19	-7,054.91	-364.21	4,859.66	4,574.21	285.45	17.025		
18,000.00	7,730.00	16,209.48	7,736.74	150.31	147.78	90.20	-7,120.51	-361.99	4,855.94	4,568.01	287.93	16.865		
18,100.00	7,730.00	16,280.00	7,737.85	151.83	149.01	90.21	-7,191.00	-360.16	4,852.99	4,562.44	290.54	16.703		
18,200.00	7,730.00	16,338.56	7,738.79	153.37	150.03	90.22	-7,249.54	-359.07	4,850.74	4,557.94	292.80	16.567		
18,300.00	7,730.00	16,403.45	7,739.86	154.90	151.16	90.23	-7,314.42	-358.29	4,849.21	4,553.98	295.23	16.425		
18,400.00	7,730.00	16,475.21	7,741.09	156.45	152.40	90.25	-7,386.17	-357.98	4,848.41	4,550.57	297.84	16.279		
18,500.00	7,730.00	16,615.72	7,743.64	158.00	154.85	90.28	-7,526.65	-357.08	4,847.45	4,545.02	302.43	16.028		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,600.00	7,730.00	16,740.54	7,745.62	159.55	157.02	90.30	-7,651.44	-355.36	4,845.74	4,539.16	306.58	15.806	
18,700.00	7,730.00	16,852.41	7,747.23	161.11	158.97	90.32	-7,763.28	-353.39	4,843.64	4,533.29	310.35	15.607	
18,800.00	7,730.00	16,952.39	7,748.63	162.68	160.71	90.34	-7,863.23	-351.54	4,841.46	4,527.67	313.79	15.429	
18,900.00	7,730.00	17,064.34	7,750.19	164.25	162.67	90.36	-7,975.16	-349.39	4,839.21	4,521.64	317.57	15.238	
19,000.00	7,730.00	17,184.83	7,752.03	165.83	164.77	90.38	-8,095.60	-346.61	4,836.58	4,514.98	321.60	15.039	
19,100.00	7,730.00	17,281.30	7,752.78	167.41	166.46	90.39	-8,192.04	-344.16	4,833.70	4,508.75	324.95	14.875	
19,200.00	7,730.00	17,350.00	7,752.78	168.99	167.66	90.39	-8,260.72	-342.68	4,831.23	4,503.73	327.51	14.752	
19,300.00	7,730.00	17,423.40	7,752.41	170.58	168.94	90.38	-8,334.12	-341.61	4,829.42	4,499.23	330.18	14.626	
19,400.00	7,730.00	17,487.00	7,752.00	172.17	170.05	90.38	-8,397.71	-340.83	4,827.98	4,495.41	332.56	14.517	
19,430.54	7,730.00	17,487.00	7,752.00	172.66	170.05	90.38	-8,397.71	-340.83	4,827.82	4,495.11	332.71	14.510 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.43	786.89	-1,060.90	1,320.91					
100.00	100.00	93.31	93.31	0.13	0.14	-53.43	786.88	-1,060.76	1,320.75	1,320.48	0.27	4,814.884		
200.00	200.00	193.46	193.46	0.49	0.40	-53.42	786.83	-1,060.39	1,320.44	1,319.55	0.89	1,484.635		
300.00	300.00	290.72	290.72	0.85	0.74	-53.43	786.62	-1,060.36	1,320.28	1,318.69	1.59	831.664		
326.37	326.37	316.37	316.37	0.95	0.83	-53.43	786.54	-1,060.41	1,320.27	1,318.50	1.77	745.229 CC		
400.00	400.00	384.93	384.93	1.21	1.06	-53.45	786.41	-1,060.67	1,320.41	1,318.14	2.27	580.585		
500.00	500.00	477.94	477.94	1.57	1.39	-53.45	786.64	-1,061.25	1,321.06	1,318.10	2.96	446.829 ES		
600.00	599.98	570.92	570.91	1.92	1.71	-118.83	787.34	-1,062.10	1,323.08	1,319.45	3.63	364.069		
700.00	699.84	670.97	670.92	2.28	2.06	-118.88	789.61	-1,062.25	1,327.09	1,322.75	4.34	306.060		
800.00	799.45	793.56	793.16	2.64	2.50	-118.81	797.32	-1,057.61	1,332.01	1,326.88	5.13	259.685		
900.00	898.70	933.54	932.00	3.02	3.01	-118.63	809.88	-1,045.11	1,336.02	1,330.00	6.01	222.115		
1,000.00	997.47	1,031.33	1,028.81	3.41	3.39	-118.55	818.84	-1,034.58	1,340.36	1,333.58	6.78	197.712		
1,100.00	1,095.62	1,125.83	1,122.25	3.84	3.77	-118.53	828.31	-1,024.15	1,346.68	1,339.12	7.56	178.107		
1,200.00	1,193.06	1,228.16	1,223.43	4.29	4.18	-118.61	838.81	-1,013.05	1,354.95	1,346.55	8.41	161.195		
1,300.00	1,289.64	1,368.05	1,361.16	4.78	4.77	-118.82	854.40	-994.29	1,363.47	1,354.03	9.45	144.315		
1,400.00	1,385.27	1,458.55	1,449.73	5.32	5.18	-118.89	865.89	-979.61	1,372.23	1,361.88	10.35	132.633		
1,500.00	1,479.82	1,536.03	1,525.43	5.90	5.54	-118.95	876.83	-967.31	1,383.79	1,372.56	11.23	123.201		
1,600.00	1,573.17	1,608.29	1,596.01	6.53	5.88	-119.00	888.04	-956.60	1,398.75	1,386.62	12.13	115.283		
1,700.00	1,665.21	1,704.80	1,690.32	7.23	6.33	-119.22	903.69	-943.39	1,416.78	1,403.59	13.19	107.418		
1,800.00	1,755.84	1,831.80	1,814.72	7.98	6.92	-119.81	922.10	-925.61	1,435.50	1,421.07	14.43	99.492		
1,900.00	1,844.94	1,941.37	1,922.25	8.80	7.43	-120.44	935.19	-909.18	1,453.92	1,438.31	15.61	93.131		
2,000.00	1,932.39	2,015.11	1,994.81	9.68	7.76	-120.82	943.58	-899.09	1,475.28	1,458.62	16.66	88.562		
2,100.00	2,018.11	2,088.55	2,067.12	10.63	8.09	-121.21	952.48	-889.90	1,500.15	1,482.42	17.73	84.608		
2,200.00	2,101.97	2,166.61	2,143.99	11.65	8.44	-121.66	962.53	-880.75	1,528.29	1,509.43	18.85	81.056		
2,300.00	2,183.88	2,243.75	2,219.93	12.74	8.79	-122.09	972.97	-872.16	1,559.54	1,539.54	20.00	77.971		
2,400.00	2,263.74	2,371.78	2,345.75	13.90	9.38	-123.20	990.98	-856.76	1,592.85	1,571.40	21.45	74.253		
2,431.61	2,288.54	2,428.73	2,401.61	14.29	9.65	-123.78	998.48	-848.60	1,603.17	1,581.17	22.00	72.871		
2,500.00	2,341.97	2,477.96	2,449.90	15.13	9.88	-124.44	1,004.67	-841.31	1,625.52	1,602.72	22.80	71.290		
2,600.00	2,420.08	2,543.34	2,514.14	16.37	10.18	-125.30	1,012.94	-832.44	1,659.79	1,635.87	23.92	69.380		
2,700.00	2,498.20	2,618.52	2,588.15	17.63	10.53	-126.29	1,022.55	-823.31	1,695.87	1,670.80	25.07	67.632		
2,800.00	2,576.32	2,751.53	2,718.79	18.89	11.16	-127.91	1,039.83	-805.26	1,731.56	1,705.02	26.53	65.259		
2,900.00	2,654.43	2,891.44	2,855.73	20.17	11.83	-129.52	1,056.61	-782.12	1,764.86	1,736.86	28.01	63.017		
3,000.00	2,732.55	2,977.44	2,939.98	21.45	12.24	-130.49	1,065.82	-767.53	1,798.09	1,768.92	29.18	61.630		
3,100.00	2,810.67	3,064.91	3,025.36	22.74	12.67	-131.40	1,076.39	-751.79	1,831.41	1,801.06	30.35	60.343		
3,200.00	2,888.78	3,114.13	3,073.64	24.03	12.90	-131.93	1,081.88	-743.90	1,866.61	1,835.32	31.29	59.653		
3,300.00	2,966.90	3,174.39	3,133.00	25.33	13.18	-132.59	1,088.16	-735.65	1,903.99	1,871.73	32.25	59.036		
3,400.00	3,045.02	3,252.11	3,209.41	26.63	13.54	-133.37	1,097.86	-725.31	1,942.74	1,909.44	33.30	58.341		
3,500.00	3,123.13	3,362.09	3,317.15	27.94	14.07	-134.36	1,113.42	-709.68	1,981.59	1,947.03	34.55	57.346		
3,600.00	3,201.25	3,450.26	3,403.41	29.24	14.50	-135.13	1,125.87	-696.32	2,019.95	1,984.28	35.67	56.629		
3,700.00	3,279.37	3,529.01	3,480.49	30.55	14.89	-135.78	1,137.21	-684.82	2,059.15	2,022.43	36.71	56.086		
3,800.00	3,357.49	3,605.53	3,555.46	31.86	15.26	-136.41	1,147.95	-673.95	2,098.95	2,061.22	37.72	55.640		
3,900.00	3,435.60	3,681.82	3,630.39	33.18	15.62	-137.04	1,158.28	-663.96	2,139.84	2,101.13	38.71	55.279		
4,000.00	3,513.72	3,799.86	3,746.11	34.49	16.18	-137.96	1,174.18	-646.97	2,179.75	2,139.80	39.95	54.555		
4,100.00	3,591.84	3,867.94	3,812.80	35.81	16.51	-138.46	1,183.87	-637.32	2,220.43	2,179.56	40.88	54.321		
4,200.00	3,669.95	3,937.72	3,881.33	37.12	16.84	-138.98	1,193.23	-628.13	2,262.10	2,220.32	41.78	54.140		
4,300.00	3,748.07	4,011.01	3,953.53	38.44	17.18	-139.53	1,202.19	-619.22	2,304.68	2,262.00	42.68	53.996		
4,400.00	3,826.19	4,138.34	4,078.99	39.76	17.76	-140.47	1,217.31	-603.60	2,347.57	2,303.66	43.91	53.459		
4,500.00	3,904.30	4,252.91	4,191.28	41.08	18.31	-141.21	1,232.92	-587.17	2,389.01	2,343.92	45.10	52.975		
4,600.00	3,982.42	4,364.24	4,299.98	42.40	18.86	-141.88	1,248.81	-569.12	2,428.92	2,382.65	46.27	52.493		
4,700.00	4,060.54	4,429.54	4,363.88	43.72	19.19	-142.27	1,257.88	-559.11	2,469.84	2,422.71	47.13	52.409		
4,800.00	4,138.66	4,532.74	4,464.86	45.05	19.70	-142.86	1,272.09	-543.31	2,510.98	2,462.76	48.22	52.071		
4,900.00	4,216.77	4,614.26	4,544.55	46.37	20.10	-143.32	1,283.51	-530.48	2,551.97	2,502.80	49.17	51.901		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,679.00	4,608.01	47.69	20.41	-143.67	1,292.28	-521.11	2,594.07	2,544.08	49.99	51.893		
5,100.00	4,373.01	4,758.47	4,686.04	49.02	20.79	-144.12	1,302.64	-510.15	2,636.94	2,586.05	50.89	51.820		
5,200.00	4,451.12	4,876.74	4,801.89	50.34	21.37	-144.73	1,318.87	-492.79	2,679.26	2,627.20	52.06	51.463		
5,300.00	4,529.24	4,970.13	4,893.13	51.67	21.83	-145.17	1,332.81	-478.52	2,721.33	2,668.24	53.08	51.264		
5,400.00	4,607.36	5,035.00	4,956.38	52.99	22.16	-145.46	1,342.85	-468.26	2,763.24	2,709.34	53.91	51.261		
5,500.00	4,685.47	5,093.68	5,013.77	54.32	22.45	-145.72	1,351.47	-459.58	2,806.17	2,751.52	54.66	51.343		
5,600.00	4,763.59	5,143.75	5,063.03	55.64	22.68	-145.97	1,357.95	-453.35	2,850.85	2,795.54	55.31	51.542		
5,700.00	4,841.71	5,231.04	5,149.06	56.97	23.08	-146.41	1,368.40	-442.88	2,896.09	2,839.88	56.21	51.524		
5,800.00	4,919.83	5,487.06	5,400.55	58.30	24.29	-147.60	1,399.69	-407.07	2,941.19	2,882.94	58.25	50.494		
5,900.00	4,997.94	5,557.42	5,468.98	59.62	24.66	-147.86	1,410.47	-394.71	2,981.91	2,922.81	59.10	50.455		
6,000.00	5,076.06	5,639.01	5,548.40	60.95	25.07	-148.16	1,422.86	-380.78	3,023.15	2,963.14	60.02	50.371		
6,100.00	5,154.18	5,709.03	5,616.91	62.28	25.42	-148.45	1,431.56	-369.17	3,064.82	3,004.01	60.81	50.399		
6,200.00	5,232.29	5,784.25	5,690.68	63.61	25.78	-148.77	1,440.15	-357.26	3,107.21	3,045.59	61.62	50.428		
6,300.00	5,310.41	5,888.12	5,792.50	64.93	26.29	-149.20	1,452.36	-340.78	3,149.71	3,087.09	62.62	50.301		
6,400.00	5,388.53	5,926.00	5,829.43	66.26	26.48	-149.32	1,458.01	-334.53	3,192.32	3,129.14	63.18	50.524		
6,500.00	5,466.64	5,979.07	5,881.26	67.59	26.74	-149.50	1,466.06	-326.48	3,236.06	3,172.20	63.85	50.679		
6,600.00	5,544.76	6,015.00	5,916.55	68.92	26.92	-149.63	1,471.04	-321.95	3,281.66	3,217.29	64.37	50.983		
6,700.00	5,622.88	6,097.22	5,997.56	70.25	27.29	-149.93	1,481.27	-312.33	3,328.21	3,263.00	65.20	51.043		
6,800.00	5,701.00	6,800.00	6,182.13	71.58	30.67	-150.62	1,504.30	-286.27	3,372.43	3,303.40	69.04	48.851		
6,900.00	5,779.11	6,344.27	6,240.13	72.91	28.46	-150.81	1,512.43	-277.52	3,416.56	3,349.05	67.51	50.611		
7,000.00	5,857.23	6,413.30	6,308.00	74.23	28.79	-151.04	1,520.88	-268.20	3,461.74	3,393.50	68.25	50.724		
7,100.00	5,935.35	6,575.64	6,467.32	75.56	29.56	-151.57	1,541.60	-244.95	3,506.46	3,436.78	69.68	50.326		
7,200.00	6,013.46	6,666.76	6,556.57	76.89	30.01	-151.86	1,552.82	-230.42	3,549.64	3,479.06	70.58	50.293		
7,300.00	6,091.58	6,728.00	6,616.49	78.22	30.31	-152.03	1,561.55	-221.31	3,593.74	3,522.46	71.29	50.413		
7,400.00	6,169.70	6,793.06	6,680.11	79.55	30.63	-152.19	1,571.58	-212.09	3,638.54	3,566.50	72.03	50.511		
7,500.00	6,247.81	7,263.00	7,137.67	80.88	32.71	-154.24	1,586.15	-121.63	3,679.12	3,604.62	74.50	49.382		
7,600.00	6,325.93	7,263.00	7,137.67	82.21	32.71	-154.24	1,586.15	-121.63	3,716.17	3,641.30	74.87	49.636		
7,700.00	6,404.05	7,263.00	7,137.67	83.54	32.71	-154.24	1,586.15	-121.63	3,755.52	3,680.33	75.19	49.949		
7,800.00	6,482.17	7,309.66	7,182.25	84.87	32.83	-154.61	1,576.60	-111.76	3,795.66	3,720.19	75.47	50.294		
7,900.00	6,560.28	7,352.00	7,223.08	86.20	32.94	-154.93	1,567.86	-104.75	3,838.71	3,762.98	75.74	50.686		
8,000.00	6,638.40	7,352.00	7,223.08	87.53	32.94	-154.93	1,567.86	-104.75	3,882.72	3,806.74	75.96	51.115		
8,100.00	6,716.52	7,381.36	7,251.47	88.86	33.00	-155.16	1,561.66	-100.52	3,928.66	3,852.49	76.17	51.575		
8,200.00	6,794.63	7,841.45	7,663.25	90.20	33.75	-159.62	1,387.51	-12.30	3,971.93	3,896.49	75.44	52.653		
8,300.00	6,872.75	7,887.00	7,697.24	91.53	33.78	-160.19	1,358.90	-2.31	4,013.39	3,937.93	75.45	53.190		
8,400.00	6,950.87	7,887.00	7,697.24	92.86	33.78	-160.19	1,358.90	-2.31	4,056.13	3,980.43	75.69	53.587		
8,500.00	7,028.98	7,887.00	7,697.24	94.19	33.78	-160.19	1,358.90	-2.31	4,100.86	4,024.96	75.89	54.033		
8,600.00	7,107.10	7,887.00	7,697.24	95.52	33.78	-160.19	1,358.90	-2.31	4,147.52	4,071.45	76.06	54.526		
8,647.91	7,144.53	7,887.00	7,697.24	96.16	33.78	-160.19	1,358.90	-2.31	4,170.54	4,094.40	76.13	54.778		
8,650.00	7,146.16	7,887.00	7,697.24	96.18	33.78	-160.55	1,358.90	-2.31	4,171.55	4,095.41	76.14	54.790		
8,700.00	7,185.66	7,887.00	7,697.24	96.84	33.78	-169.53	1,358.90	-2.31	4,196.00	4,119.80	76.20	55.063		
8,750.00	7,225.78	7,922.25	7,722.16	97.47	33.77	-179.37	1,334.92	4.48	4,220.07	4,143.99	76.08	55.467		
8,800.00	7,266.21	7,929.43	7,727.06	98.08	33.77	170.92	1,329.83	5.75	4,244.55	4,168.45	76.10	55.777		
8,850.00	7,306.63	7,937.08	7,732.23	98.64	33.77	161.27	1,324.34	7.06	4,268.81	4,192.71	76.10	56.094		
8,900.00	7,346.75	7,976.00	7,757.43	99.17	33.76	151.69	1,295.29	13.00	4,293.18	4,217.26	75.92	56.549		
8,950.00	7,386.25	7,976.00	7,757.43	99.64	33.76	143.02	1,295.29	13.00	4,316.22	4,240.27	75.95	56.830		
9,000.00	7,424.84	7,976.00	7,757.43	100.06	33.76	135.04	1,295.29	13.00	4,338.56	4,262.59	75.97	57.107		
9,050.00	7,462.22	7,976.00	7,757.43	100.42	33.76	127.84	1,295.29	13.00	4,360.05	4,284.06	75.99	57.374		
9,100.00	7,498.11	7,976.00	7,757.43	100.74	33.76	121.42	1,295.29	13.00	4,380.53	4,304.52	76.01	57.628		
9,150.00	7,532.24	7,976.00	7,757.43	100.99	33.76	115.76	1,295.29	13.00	4,399.86	4,323.83	76.04	57.863		
9,200.00	7,564.34	7,976.00	7,757.43	101.19	33.76	110.82	1,295.29	13.00	4,417.92	4,341.85	76.07	58.076		
9,250.00	7,594.17	8,012.94	7,779.51	101.34	33.72	106.53	1,266.05	17.59	4,433.90	4,358.00	75.90	58.419		
9,300.00	7,621.50	8,023.80	7,785.63	101.45	33.71	102.90	1,257.16	18.75	4,448.60	4,372.71	75.89	58.619		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft			
Survey Program: 140-MWD OWSG															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,350.00	7,646.13	8,065.00	7,807.24	101.50	33.67	99.86	1,222.28	22.40	4,462.01	4,386.32	75.70	58.946				
9,400.00	7,667.87	8,065.00	7,807.24	101.51	33.67	97.34	1,222.28	22.40	4,472.90	4,397.10	75.80	59.012				
9,450.00	7,686.55	8,065.00	7,807.24	101.48	33.67	95.28	1,222.28	22.40	4,482.01	4,406.09	75.92	59.034				
9,500.00	7,702.04	8,065.00	7,807.24	101.42	33.67	93.66	1,222.28	22.40	4,489.30	4,413.22	76.08	59.007				
9,550.00	7,714.20	8,065.00	7,807.24	101.33	33.67	92.45	1,222.28	22.40	4,494.73	4,418.45	76.27	58.930				
9,600.00	7,722.96	8,065.00	7,807.24	101.20	33.67	91.63	1,222.28	22.40	4,498.24	4,421.74	76.50	58.802				
9,650.00	7,728.24	8,101.36	7,823.83	101.06	33.59	91.37	1,190.01	24.59	4,499.21	4,422.72	76.48	58.825				
9,699.97	7,730.00	8,112.39	7,828.32	100.90	33.57	91.38	1,179.94	25.07	4,498.44	4,421.75	76.69	58.657				
9,800.00	7,730.00	8,154.00	7,842.94	100.56	33.50	91.57	1,141.02	26.07	4,495.91	4,418.93	76.97	58.409				
9,899.87	7,730.00	8,154.00	7,842.94	100.24	33.50	91.57	1,141.02	26.07	4,494.80	4,417.16	77.64	57.894				
9,900.00	7,730.00	8,154.00	7,842.94	100.24	33.50	91.57	1,141.02	26.07	4,494.80	4,417.16	77.64	57.893				
10,000.00	7,730.00	8,193.37	7,853.14	99.93	33.41	91.70	1,103.02	26.04	4,495.42	4,417.46	77.96	57.664				
10,100.00	7,730.00	8,243.00	7,860.57	99.64	33.30	91.79	1,053.99	24.91	4,497.60	4,419.44	78.16	57.540				
10,200.00	7,730.00	8,279.99	7,863.22	99.36	33.21	91.82	1,017.12	23.51	4,500.99	4,422.48	78.51	57.327				
10,300.00	7,730.00	8,348.12	7,865.02	99.09	33.07	91.85	949.10	20.39	4,505.30	4,426.73	78.57	57.341				
10,400.00	7,730.00	8,836.00	7,855.48	98.84	33.61	91.73	461.74	20.77	4,501.73	4,424.96	76.77	58.641				
10,500.00	7,730.00	8,890.61	7,853.63	98.61	33.90	91.70	407.21	23.18	4,497.50	4,420.11	77.39	58.111				
10,600.00	7,730.00	8,925.00	7,852.52	98.39	34.10	91.69	372.85	23.64	4,495.42	4,417.37	78.04	57.601				
10,668.05	7,730.00	8,925.00	7,852.52	98.24	34.10	91.69	372.85	23.64	4,494.90	4,416.40	78.50	57.257				
10,700.00	7,730.00	8,925.00	7,852.52	98.18	34.10	91.69	372.85	23.64	4,495.01	4,416.30	78.71	57.106				
10,800.00	7,730.00	8,973.71	7,851.12	97.99	34.40	91.67	324.16	23.13	4,495.98	4,416.54	79.43	56.602				
10,900.00	7,730.00	9,014.00	7,850.20	97.81	34.66	91.66	283.90	21.81	4,498.63	4,418.47	80.16	56.119				
11,000.00	7,730.00	9,066.29	7,849.12	97.64	35.01	91.64	231.67	19.48	4,502.52	4,421.57	80.96	55.617				
11,100.00	7,730.00	9,178.14	7,846.69	97.50	35.85	91.61	119.97	14.25	4,506.82	4,424.86	81.95	54.992				
11,200.00	7,730.00	9,315.13	7,843.70	97.36	37.01	91.57	-16.88	8.88	4,510.32	4,427.06	83.26	54.173				
11,300.00	7,730.00	9,427.98	7,841.24	97.24	38.06	91.54	-129.64	5.07	4,513.30	4,428.66	84.64	53.326				
11,400.00	7,730.00	11,400.00	7,821.79	97.14	64.23	91.30	-950.18	40.24	4,511.90	4,400.47	111.43	40.492				
11,500.00	7,730.00	10,292.64	7,820.65	97.06	48.57	91.29	-991.69	45.43	4,499.29	4,402.78	96.52	46.616				
11,600.00	7,730.00	10,350.00	7,819.01	96.98	49.38	91.27	-1,048.75	51.09	4,488.56	4,390.51	98.06	45.776				
11,700.00	7,730.00	10,350.00	7,819.01	96.93	49.38	91.27	-1,048.75	51.09	4,478.76	4,380.14	98.62	45.416				
11,800.00	7,730.00	10,350.00	7,819.01	96.90	49.38	91.27	-1,048.75	51.09	4,471.17	4,371.98	99.19	45.076				
11,900.00	7,730.00	10,671.13	7,810.35	96.88	53.99	91.17	-1,368.63	76.02	4,464.73	4,359.11	105.62	42.270				
12,000.00	7,730.00	10,707.00	7,809.35	96.88	54.53	91.16	-1,404.30	79.73	4,454.02	4,347.14	106.88	41.673				
12,100.00	7,730.00	10,781.12	7,807.25	96.90	55.64	91.13	-1,478.06	86.66	4,444.29	4,335.38	108.91	40.808				
12,200.00	7,730.00	10,796.00	7,806.82	96.94	55.86	91.12	-1,492.88	87.99	4,435.69	4,325.92	109.76	40.412				
12,300.00	7,730.00	10,843.58	7,805.47	97.00	56.57	91.11	-1,540.30	91.53	4,428.33	4,317.05	111.28	39.796				
12,400.00	7,730.00	10,885.00	7,804.30	97.08	57.19	91.09	-1,581.66	93.46	4,422.90	4,310.23	112.67	39.256				
12,500.00	7,730.00	10,885.00	7,804.30	97.18	57.19	91.09	-1,581.66	93.46	4,419.01	4,305.79	113.22	39.032				
12,600.00	7,730.00	10,931.12	7,803.00	97.31	57.87	91.08	-1,627.75	94.50	4,416.62	4,301.92	114.70	38.506				
12,700.00	7,730.00	10,974.00	7,801.78	97.46	58.50	91.06	-1,670.61	94.56	4,415.88	4,299.77	116.11	38.030				
12,711.26	7,730.00	10,974.00	7,801.78	97.48	58.50	91.06	-1,670.61	94.56	4,415.87	4,299.69	116.18	38.010				
12,800.00	7,730.00	10,974.00	7,801.78	97.64	58.50	91.06	-1,670.61	94.56	4,416.76	4,300.12	116.63	37.868				
12,900.00	7,730.00	11,018.34	7,800.52	97.85	59.14	91.04	-1,714.92	93.54	4,419.07	4,301.00	118.07	37.429				
13,000.00	7,730.00	11,063.00	7,799.28	98.09	59.78	91.03	-1,759.50	91.29	4,423.30	4,303.80	119.50	37.015				
13,100.00	7,730.00	11,063.00	7,799.28	98.35	59.78	91.03	-1,759.50	91.29	4,428.94	4,308.97	119.98	36.915				
13,200.00	7,730.00	11,100.55	7,798.30	98.65	60.31	91.01	-1,796.94	88.48	4,436.28	4,315.04	121.24	36.592				
13,300.00	7,730.00	11,919.68	7,801.35	98.98	72.76	91.05	-2,612.61	80.75	4,440.55	4,299.85	140.70	31.560				
13,400.00	7,730.00	11,965.79	7,801.66	99.34	73.51	91.06	-2,658.61	83.93	4,433.26	4,290.88	142.38	31.136				
13,500.00	7,730.00	12,055.56	7,802.49	99.74	74.97	91.07	-2,748.19	89.62	4,426.60	4,281.45	145.15	30.496				
13,600.00	7,730.00	12,133.00	7,803.22	100.17	76.24	91.08	-2,825.49	94.23	4,420.33	4,272.70	147.63	29.943				
13,700.00	7,730.00	12,255.11	7,804.35	100.65	78.24	91.10	-2,947.37	101.54	4,414.01	4,262.76	151.25	29.183				
13,800.00	7,730.00	12,355.68	7,805.21	101.16	79.89	91.11	-3,047.74	107.83	4,407.44	4,253.09	154.35	28.554				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,730.00	12,475.21	7,806.26	101.71	81.87	91.13	-3,167.03	115.39	4,400.82	4,242.85	157.97	27.859		
14,000.00	7,730.00	14,000.00	7,807.56	102.30	107.59	91.15	-3,405.35	134.28	4,393.07	4,206.57	186.50	23.555		
14,100.00	7,730.00	12,756.00	7,807.58	102.93	86.57	91.15	-3,446.85	138.37	4,383.30	4,216.91	166.39	26.344		
14,200.00	7,730.00	12,804.07	7,807.66	103.60	87.38	91.15	-3,494.72	142.75	4,374.48	4,206.28	168.19	26.008		
14,300.00	7,730.00	12,845.00	7,807.89	104.32	88.07	91.16	-3,535.58	145.13	4,367.83	4,198.04	169.80	25.724		
14,400.00	7,730.00	12,845.00	7,807.89	105.07	88.07	91.16	-3,535.58	145.13	4,362.65	4,192.39	170.26	25.623		
14,500.00	7,730.00	12,877.61	7,808.14	105.86	88.60	91.16	-3,568.17	146.19	4,359.29	4,187.71	171.58	25.407		
14,600.00	7,730.00	12,934.00	7,808.64	106.70	89.53	91.17	-3,624.55	146.37	4,358.06	4,184.53	173.53	25.114		
14,700.00	7,730.00	13,125.41	7,809.18	107.57	92.69	91.17	-3,815.91	149.54	4,356.58	4,177.33	179.25	24.304		
14,800.00	7,730.00	13,202.00	7,809.40	108.48	93.97	91.18	-3,892.47	151.73	4,353.36	4,171.55	181.80	23.945		
14,900.00	7,730.00	13,297.51	7,809.85	109.43	95.57	91.18	-3,987.95	154.17	4,350.47	4,165.58	184.89	23.530		
15,000.00	7,730.00	13,342.80	7,810.05	110.42	96.32	91.19	-4,033.23	155.03	4,348.19	4,161.64	186.55	23.308		
15,100.00	7,730.00	13,430.49	7,810.38	111.43	97.78	91.19	-4,120.92	155.76	4,346.98	4,157.56	189.42	22.949		
15,200.00	7,730.00	13,603.93	7,810.98	112.49	100.69	91.20	-4,294.31	159.56	4,344.26	4,149.49	194.77	22.304		
15,300.00	7,730.00	13,672.55	7,810.97	113.57	101.84	91.20	-4,362.91	161.32	4,341.41	4,144.29	197.12	22.024		
15,400.00	7,730.00	13,736.00	7,811.11	114.68	102.91	91.20	-4,426.35	162.16	4,339.64	4,140.33	199.32	21.773		
15,500.00	7,730.00	13,793.55	7,811.39	115.82	103.87	91.21	-4,483.90	162.41	4,338.76	4,137.44	201.32	21.551		
15,556.75	7,730.00	13,826.00	7,811.59	116.48	104.41	91.21	-4,516.35	162.45	4,338.55	4,136.09	202.45	21.430		
15,600.00	7,730.00	13,853.22	7,811.79	116.99	104.87	91.21	-4,543.57	162.36	4,338.58	4,135.20	203.38	21.332		
15,700.00	7,730.00	14,055.29	7,815.14	118.19	108.26	91.26	-4,745.58	162.47	4,338.67	4,128.97	209.70	20.690		
15,800.00	7,730.00	14,129.88	7,816.84	119.41	109.52	91.28	-4,820.15	163.46	4,337.04	4,124.79	212.25	20.434		
15,900.00	7,730.00	14,238.79	7,819.80	120.65	111.36	91.32	-4,929.01	164.64	4,335.70	4,119.87	215.83	20.089		
16,000.00	7,730.00	14,652.95	7,830.24	121.91	118.49	91.47	-5,342.22	187.17	4,328.40	4,100.09	228.31	18.958		
16,100.00	7,730.00	14,717.00	7,831.74	123.20	119.60	91.49	-5,406.07	192.03	4,320.34	4,089.67	230.67	18.729		
16,200.00	7,730.00	14,717.00	7,831.74	124.50	119.60	91.49	-5,406.07	192.03	4,313.47	4,082.31	231.17	18.659		
16,300.00	7,730.00	14,757.15	7,832.67	125.82	120.29	91.50	-5,446.15	194.17	4,308.22	4,075.45	232.77	18.509		
16,400.00	7,730.00	14,984.00	7,835.95	127.16	124.21	91.55	-5,672.65	205.03	4,304.04	4,064.20	239.84	17.945		
16,500.00	7,730.00	15,038.33	7,836.11	128.52	125.16	91.55	-5,726.85	208.84	4,296.97	4,055.07	241.90	17.764		
16,600.00	7,730.00	15,073.00	7,836.36	129.89	125.76	91.56	-5,761.47	210.63	4,291.50	4,048.15	243.35	17.635		
16,700.00	7,730.00	15,106.60	7,836.66	131.27	126.33	91.56	-5,795.05	211.86	4,287.56	4,042.84	244.72	17.520		
16,800.00	7,730.00	15,162.00	7,837.18	132.67	127.28	91.57	-5,850.44	212.70	4,285.38	4,038.66	246.71	17.370		
16,890.66	7,730.00	15,162.00	7,837.18	133.95	127.28	91.57	-5,850.44	212.70	4,284.42	4,037.50	246.92	17.351		
16,900.00	7,730.00	15,162.00	7,837.18	134.09	127.28	91.57	-5,850.44	212.70	4,284.43	4,037.49	246.94	17.350		
17,000.00	7,730.00	15,199.86	7,837.53	135.51	127.92	91.57	-5,888.29	212.35	4,285.24	4,036.95	248.29	17.259		
17,100.00	7,730.00	15,251.00	7,837.97	136.95	128.78	91.58	-5,939.40	210.59	4,287.93	4,037.90	250.03	17.150		
17,200.00	7,730.00	15,251.00	7,837.97	138.40	128.78	91.58	-5,939.40	210.59	4,291.90	4,041.88	250.02	17.166		
17,300.00	7,730.00	15,309.79	7,838.42	139.85	129.76	91.58	-5,998.09	207.27	4,297.34	4,045.40	251.94	17.057		
17,400.00	7,730.00	15,427.45	7,839.36	141.32	131.72	91.59	-6,115.49	199.46	4,303.75	4,047.88	255.87	16.820		
17,500.00	7,730.00	15,494.74	7,839.84	142.80	132.83	91.60	-6,182.64	195.18	4,309.79	4,051.72	258.07	16.700		
17,600.00	7,730.00	15,582.81	7,840.19	144.28	134.30	91.60	-6,270.49	189.02	4,316.44	4,055.46	260.98	16.539		
17,700.00	7,730.00	15,644.34	7,840.42	145.78	135.31	91.60	-6,331.86	184.54	4,323.47	4,060.51	262.96	16.441		
17,800.00	7,730.00	15,697.00	7,840.87	147.28	136.19	91.61	-6,384.32	180.04	4,331.65	4,067.04	264.61	16.370		
17,900.00	7,730.00	16,320.00	7,845.87	148.79	146.63	91.66	-7,002.09	158.32	4,337.45	4,052.27	285.18	15.209		
18,000.00	7,730.00	16,320.00	7,845.87	150.31	146.63	91.66	-7,002.09	158.32	4,335.32	4,049.84	285.48	15.186		
18,042.49	7,730.00	16,320.00	7,845.87	150.96	146.63	91.66	-7,002.09	158.32	4,335.11	4,049.55	285.56	15.181		
18,100.00	7,730.00	16,320.00	7,845.87	151.83	146.63	91.66	-7,002.09	158.32	4,335.49	4,049.85	285.64	15.178		
18,200.00	7,730.00	16,320.00	7,845.87	153.37	146.63	91.66	-7,002.09	158.32	4,337.97	4,052.29	285.68	15.185		
18,300.00	7,730.00	16,320.00	7,845.87	154.90	146.63	91.66	-7,002.09	158.32	4,342.75	4,057.16	285.59	15.206		
18,400.00	7,730.00	16,366.91	7,845.68	156.45	147.41	91.66	-7,048.95	156.17	4,348.21	4,061.14	287.07	15.147		
18,500.00	7,730.00	16,409.00	7,845.52	158.00	148.11	91.66	-7,090.81	151.92	4,356.84	4,068.51	288.33	15.111		
18,600.00	7,730.00	16,409.00	7,845.52	159.55	148.11	91.66	-7,090.81	151.92	4,366.44	4,078.47	287.97	15.163		
18,700.00	7,730.00	16,460.59	7,845.39	161.11	148.96	91.65	-7,142.01	145.51	4,378.13	4,088.66	289.47	15.125		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 140-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,800.00	7,730.00	16,578.33	7,844.92	162.68	150.89	91.64	-7,258.91	131.57	4,389.60	4,096.11	293.48	14.957	
18,900.00	7,730.00	16,657.97	7,843.62	164.25	152.20	91.62	-7,337.97	122.03	4,401.20	4,105.16	296.04	14.867	
19,000.00	7,730.00	16,795.54	7,839.96	165.83	154.46	91.57	-7,474.51	105.70	4,412.67	4,111.86	300.81	14.669	
19,100.00	7,730.00	16,891.82	7,836.68	167.41	156.05	91.52	-7,570.11	94.75	4,423.62	4,119.61	304.01	14.551	
19,200.00	7,730.00	16,995.05	7,832.37	168.99	157.75	91.46	-7,672.56	82.77	4,434.80	4,127.33	307.47	14.424	
19,300.00	7,730.00	17,106.55	7,827.20	170.58	159.60	91.39	-7,783.24	70.28	4,445.55	4,134.30	311.25	14.283	
19,400.00	7,730.00	17,214.05	7,821.55	172.17	161.38	91.31	-7,889.92	58.36	4,456.19	4,141.32	314.87	14.152	
19,430.54	7,730.00	17,253.70	7,819.35	172.66	162.04	91.28	-7,929.28	54.05	4,459.37	4,143.14	316.23	14.101 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-53.17	786.89	-1,050.82	1,312.82					
100.00	100.00	89.50	89.50	0.13	0.15	-53.18	786.84	-1,050.88	1,312.80	1,312.52	0.28	4,632.338 CC		
200.00	200.00	188.94	188.94	0.49	0.31	-53.19	786.66	-1,051.08	1,312.86	1,312.05	0.81	1,626.056		
300.00	300.00	288.38	288.38	0.85	0.48	-53.21	786.37	-1,051.43	1,312.96	1,311.63	1.33	986.168		
400.00	400.00	386.01	386.01	1.21	0.77	-53.23	786.06	-1,051.89	1,313.16	1,311.18	1.98	662.906		
500.00	500.00	482.87	482.87	1.57	1.12	-53.24	786.05	-1,052.41	1,313.58	1,310.90	2.68	489.466		
600.00	599.98	578.67	578.66	1.92	1.45	-118.63	786.54	-1,052.88	1,315.11	1,311.74	3.37	389.927		
700.00	699.84	740.96	740.83	2.28	2.01	-118.73	788.88	-1,048.13	1,316.16	1,311.88	4.28	307.729		
791.38	790.87	845.63	845.05	2.61	2.37	-118.71	792.73	-1,039.27	1,315.68	1,310.71	4.97	264.703		
800.00	799.45	854.32	853.67	2.64	2.40	-118.70	793.20	-1,038.39	1,315.68	1,310.65	5.03	261.432 ES		
900.00	898.70	959.17	957.58	3.02	2.80	-118.61	800.51	-1,026.47	1,316.58	1,310.79	5.79	227.318		
1,000.00	997.47	1,070.57	1,067.31	3.41	3.25	-118.46	811.24	-1,010.59	1,318.40	1,311.78	6.62	199.228		
1,100.00	1,095.62	1,177.68	1,172.15	3.84	3.71	-118.28	823.88	-992.67	1,321.18	1,313.71	7.48	176.717		
1,200.00	1,193.06	1,270.30	1,262.63	4.29	4.13	-118.18	835.51	-976.63	1,325.60	1,317.28	8.32	159.298		
1,300.00	1,289.64	1,378.05	1,367.06	4.78	4.65	-118.02	851.99	-955.89	1,331.75	1,322.45	9.29	143.284		
1,400.00	1,385.27	1,457.00	1,443.14	5.32	5.05	-117.87	865.86	-939.99	1,340.10	1,329.90	10.20	131.442		
1,500.00	1,479.82	1,605.08	1,585.69	5.90	5.84	-117.88	891.41	-909.16	1,349.64	1,338.14	11.50	117.397		
1,600.00	1,573.17	1,696.82	1,674.06	6.53	6.34	-117.98	905.01	-888.62	1,357.94	1,345.38	12.56	108.155		
1,700.00	1,665.21	1,805.04	1,778.38	7.23	6.93	-118.23	921.89	-865.30	1,369.03	1,355.29	13.75	99.593		
1,800.00	1,755.84	1,925.10	1,893.71	7.98	7.60	-118.64	939.55	-837.00	1,379.55	1,364.50	15.05	91.656		
1,900.00	1,844.94	1,992.00	1,958.18	8.80	7.97	-118.84	949.42	-822.10	1,392.99	1,376.88	16.12	86.429		
2,000.00	1,932.39	2,099.98	2,062.43	9.68	8.57	-119.42	965.20	-798.81	1,408.87	1,391.44	17.43	80.826		
2,100.00	2,018.11	2,189.81	2,149.15	10.63	9.07	-119.91	978.40	-779.47	1,426.80	1,408.12	18.69	76.349		
2,200.00	2,101.97	2,295.95	2,251.43	11.65	9.67	-120.61	993.85	-755.67	1,445.97	1,425.90	20.07	72.043		
2,300.00	2,183.88	2,368.08	2,321.10	12.74	10.07	-121.02	1,004.23	-740.14	1,468.03	1,446.74	21.29	68.942		
2,400.00	2,263.74	2,438.00	2,388.88	13.90	10.45	-121.43	1,014.61	-726.49	1,494.10	1,471.59	22.51	66.361		
2,431.61	2,288.54	2,450.29	2,400.82	14.29	10.51	-121.43	1,016.48	-724.25	1,503.17	1,480.32	22.84	65.799		
2,500.00	2,341.97	2,493.97	2,443.32	15.13	10.74	-122.01	1,023.08	-716.68	1,523.81	1,500.16	23.65	64.439		
2,600.00	2,420.08	2,558.16	2,505.94	16.37	11.06	-122.86	1,032.91	-706.50	1,555.80	1,531.00	24.80	62.737		
2,700.00	2,498.20	2,700.00	2,693.71	17.63	11.79	-125.26	1,061.30	-671.94	1,586.93	1,560.50	26.43	60.034		
2,800.00	2,576.32	2,857.90	2,796.38	18.89	12.69	-126.45	1,076.30	-647.44	1,613.69	1,585.57	28.12	57.390		
2,900.00	2,654.43	2,974.92	2,908.95	20.17	13.36	-127.71	1,092.31	-619.79	1,640.29	1,610.72	29.57	55.465		
3,000.00	2,732.55	3,042.00	2,973.65	21.45	13.74	-128.43	1,101.01	-604.39	1,667.76	1,637.03	30.73	54.276		
3,100.00	2,810.67	3,131.18	3,059.71	22.74	14.25	-129.36	1,113.19	-584.47	1,696.48	1,664.50	31.98	53.043		
3,200.00	2,888.78	3,190.94	3,117.41	24.03	14.58	-129.95	1,121.85	-571.51	1,726.51	1,693.46	33.05	52.239		
3,300.00	2,966.90	3,284.15	3,207.70	25.33	15.10	-130.87	1,135.25	-552.66	1,758.19	1,723.90	34.29	51.276		
3,400.00	3,045.02	3,363.09	3,284.06	26.63	15.53	-131.62	1,146.67	-536.24	1,789.85	1,754.42	35.42	50.529		
3,500.00	3,123.13	3,450.59	3,369.03	27.94	16.01	-132.46	1,158.76	-519.22	1,822.81	1,786.23	36.58	49.830		
3,600.00	3,201.25	3,531.01	3,446.86	29.24	16.45	-133.16	1,170.94	-503.00	1,855.95	1,818.26	37.69	49.240		
3,700.00	3,279.37	3,623.58	3,536.74	30.55	16.95	-133.97	1,184.49	-485.49	1,890.37	1,851.51	38.86	48.650		
3,800.00	3,357.49	3,716.23	3,626.57	31.86	17.45	-134.76	1,197.67	-467.07	1,924.14	1,884.13	40.01	48.096		
3,900.00	3,435.60	3,825.67	3,732.59	33.18	18.06	-135.64	1,214.16	-445.47	1,958.66	1,917.40	41.26	47.467		
4,000.00	3,513.72	3,981.90	3,883.32	34.49	18.95	-136.84	1,236.06	-410.76	1,990.84	1,948.05	42.79	46.526		
4,100.00	3,591.84	4,052.00	3,950.77	35.81	19.35	-137.36	1,245.37	-394.08	2,021.95	1,978.17	43.78	46.186		
4,200.00	3,669.95	4,115.23	4,011.82	37.12	19.71	-137.84	1,253.64	-379.85	2,054.52	2,009.83	44.69	45.969		
4,300.00	3,748.07	4,195.52	4,089.71	38.44	20.15	-138.43	1,264.33	-363.57	2,089.13	2,043.44	45.69	45.720		
4,400.00	3,826.19	4,263.40	4,155.27	39.76	20.53	-138.88	1,274.69	-349.36	2,123.97	2,077.35	46.62	45.559		
4,500.00	3,904.30	4,319.00	4,209.27	41.08	20.83	-139.26	1,282.99	-339.07	2,160.87	2,113.43	47.44	45.553		
4,600.00	3,982.42	4,396.72	4,284.88	42.40	21.24	-139.77	1,294.79	-325.51	2,199.08	2,150.69	48.39	45.447		
4,700.00	4,060.54	4,570.80	4,453.30	43.72	22.20	-140.82	1,322.07	-291.02	2,235.35	2,185.31	50.04	44.669		
4,800.00	4,138.66	4,699.45	4,577.37	45.05	22.94	-141.59	1,340.40	-262.38	2,269.42	2,218.09	51.33	44.210		
4,900.00	4,216.77	4,782.99	4,657.79	46.37	23.43	-142.06	1,352.72	-243.37	2,303.36	2,251.03	52.33	44.013		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,881.58	4,752.76	47.69	24.00	-142.60	1,367.05	-221.13	2,337.64	2,284.22	53.42	43.759		
5,100.00	4,373.01	4,985.65	4,852.86	49.02	24.61	-143.17	1,381.90	-196.82	2,371.26	2,316.73	54.53	43.483		
5,200.00	4,451.12	5,055.29	4,919.84	50.34	25.01	-143.53	1,392.16	-180.78	2,405.45	2,350.03	55.42	43.405		
5,300.00	4,529.24	5,121.00	4,983.26	51.67	25.39	-143.86	1,401.76	-166.53	2,440.95	2,384.69	56.26	43.389		
5,400.00	4,607.36	5,182.46	5,042.68	52.99	25.74	-144.17	1,411.07	-153.85	2,477.62	2,420.56	57.06	43.423		
5,500.00	4,685.47	5,278.56	5,135.57	54.32	26.27	-144.62	1,426.15	-134.40	2,514.93	2,456.82	58.10	43.284		
5,600.00	4,763.59	5,349.62	5,204.46	55.64	26.66	-144.97	1,436.11	-120.09	2,552.31	2,493.38	58.93	43.308		
5,700.00	4,841.71	5,414.32	5,267.33	56.97	27.01	-145.29	1,445.17	-107.80	2,590.81	2,531.11	59.70	43.395		
5,800.00	4,919.83	5,532.35	5,382.05	58.30	27.64	-145.85	1,462.25	-85.94	2,630.12	2,569.25	60.86	43.213		
5,900.00	4,997.94	5,662.06	5,507.46	59.62	28.37	-146.41	1,481.53	-59.01	2,667.22	2,605.09	62.12	42.935		
6,000.00	5,076.06	5,727.44	5,570.84	60.95	28.73	-146.71	1,490.38	-45.61	2,704.69	2,641.80	62.89	43.009		
6,100.00	5,154.18	5,799.87	5,641.20	62.28	29.12	-147.04	1,499.94	-31.34	2,743.00	2,679.32	63.68	43.073		
6,200.00	5,232.29	5,943.72	5,780.79	63.61	29.90	-147.67	1,519.09	-2.35	2,781.15	2,716.17	64.98	42.801		
6,300.00	5,310.41	6,041.38	5,875.35	64.93	30.44	-148.09	1,531.70	18.53	2,818.13	2,752.18	65.95	42.733		
6,400.00	5,388.53	6,125.95	5,957.14	66.26	30.91	-148.43	1,543.12	36.78	2,855.08	2,788.25	66.83	42.721		
6,500.00	5,466.64	6,190.00	6,019.26	67.59	31.27	-148.70	1,551.18	50.10	2,892.82	2,825.27	67.55	42.823		
6,600.00	5,544.76	6,277.81	6,104.50	68.92	31.74	-149.05	1,562.47	67.91	2,931.15	2,862.71	68.44	42.830		
6,700.00	5,622.88	6,343.77	6,168.48	70.25	32.10	-149.30	1,571.72	81.04	2,969.97	2,900.80	69.18	42.933		
6,800.00	5,701.00	6,486.01	6,306.19	71.58	32.89	-149.79	1,592.64	109.83	3,008.66	2,938.16	70.50	42.675		
6,900.00	5,779.11	6,564.43	6,381.89	72.91	33.34	-150.05	1,604.54	126.46	3,046.50	2,975.14	71.36	42.694		
7,000.00	5,857.23	6,612.88	6,428.87	74.23	33.60	-150.21	1,611.26	136.19	3,085.40	3,013.44	71.96	42.878		
7,100.00	5,935.35	6,768.43	6,579.44	75.56	34.47	-150.72	1,633.61	168.14	3,123.89	3,050.52	73.37	42.577		
7,200.00	6,013.46	7,260.00	7,043.69	76.89	37.09	-153.22	1,645.83	301.08	3,154.32	3,078.94	75.38	41.846		
7,300.00	6,091.58	7,260.00	7,043.69	78.22	37.09	-153.22	1,645.83	301.08	3,182.35	3,106.49	75.85	41.954		
7,400.00	6,169.70	7,260.00	7,043.69	79.55	37.09	-153.22	1,645.83	301.08	3,213.24	3,136.99	76.26	42.137		
7,500.00	6,247.81	7,260.00	7,043.69	80.88	37.09	-153.22	1,645.83	301.08	3,246.93	3,170.33	76.59	42.391		
7,600.00	6,325.93	7,301.94	7,081.61	82.21	37.16	-153.69	1,630.98	311.07	3,282.06	3,205.39	76.67	42.806		
7,700.00	6,404.05	7,349.00	7,124.14	83.54	37.24	-154.25	1,612.87	319.87	3,320.67	3,243.99	76.68	43.303		
7,800.00	6,482.17	7,349.00	7,124.14	84.87	37.24	-154.25	1,612.87	319.87	3,360.28	3,283.39	76.89	43.704		
7,900.00	6,560.28	7,349.00	7,124.14	86.20	37.24	-154.25	1,612.87	319.87	3,402.37	3,325.33	77.04	44.166		
8,000.00	6,638.40	7,349.00	7,124.14	87.53	37.24	-154.25	1,612.87	319.87	3,446.84	3,369.71	77.14	44.686		
8,100.00	6,716.52	7,391.03	7,161.80	88.86	37.27	-154.76	1,595.27	326.06	3,492.86	3,415.83	77.02	45.349		
8,200.00	6,794.63	7,438.00	7,203.18	90.20	37.30	-155.35	1,573.79	331.75	3,541.13	3,464.28	76.85	46.078		
8,300.00	6,872.75	7,438.00	7,203.18	91.53	37.30	-155.35	1,573.79	331.75	3,590.62	3,513.76	76.86	46.718		
8,400.00	6,950.87	7,482.93	7,241.94	92.86	37.31	-155.94	1,551.60	336.59	3,641.91	3,565.28	76.63	47.525		
8,500.00	7,028.98	7,607.73	7,344.02	94.19	37.30	-157.66	1,481.45	351.01	3,694.15	3,618.21	75.94	48.648		
8,600.00	7,107.10	7,655.56	7,380.07	95.52	37.28	-158.36	1,450.67	357.29	3,746.66	3,671.06	75.60	49.559		
8,647.91	7,144.53	7,672.82	7,392.56	96.16	37.27	-158.63	1,438.96	359.54	3,772.33	3,696.87	75.46	49.989		
8,650.00	7,146.16	7,673.55	7,393.08	96.18	37.27	-159.02	1,438.47	359.64	3,773.46	3,698.00	75.46	50.008		
8,700.00	7,185.66	7,691.60	7,405.82	96.84	37.26	-168.69	1,425.89	361.98	3,800.62	3,725.31	75.31	50.466		
8,750.00	7,225.78	7,705.00	7,415.06	97.47	37.26	-178.75	1,416.34	363.72	3,827.99	3,752.79	75.20	50.905		
8,800.00	7,266.21	7,724.92	7,428.44	98.08	37.23	170.90	1,401.81	366.27	3,855.33	3,780.29	75.04	51.377		
8,850.00	7,306.63	7,741.25	7,439.09	98.64	37.22	160.69	1,389.60	368.31	3,882.42	3,807.52	74.90	51.832		
8,900.00	7,346.75	7,758.35	7,449.90	99.17	37.20	150.85	1,376.52	370.40	3,909.04	3,834.28	74.76	52.288		
8,950.00	7,386.25	7,794.00	7,471.35	99.64	37.17	141.46	1,348.36	374.60	3,935.05	3,860.57	74.47	52.838		
9,000.00	7,424.84	7,794.00	7,471.35	100.06	37.17	133.16	1,348.36	374.60	3,959.98	3,885.52	74.46	53.184		
9,050.00	7,462.22	7,794.00	7,471.35	100.42	37.17	125.65	1,348.36	374.60	3,984.00	3,909.55	74.45	53.515		
9,100.00	7,498.11	7,794.00	7,471.35	100.74	37.17	118.97	1,348.36	374.60	4,006.93	3,932.48	74.44	53.824		
9,150.00	7,532.24	7,794.00	7,471.35	100.99	37.17	113.08	1,348.36	374.60	4,028.62	3,954.16	74.46	54.107		
9,200.00	7,564.34	7,794.00	7,471.35	101.19	37.17	107.93	1,348.36	374.60	4,048.93	3,974.44	74.49	54.358		
9,250.00	7,594.17	7,830.28	7,491.40	101.34	37.10	103.44	1,318.33	378.03	4,066.74	3,992.49	74.24	54.775		
9,300.00	7,621.50	7,837.97	7,495.39	101.45	37.09	99.66	1,311.78	378.57	4,083.44	4,009.18	74.25	54.994		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,845.74	7,499.32	101.50	37.07	96.46	1,305.09	379.05	4,098.29	4,024.01	74.29	55.169		
9,400.00	7,667.87	7,883.00	7,516.80	101.51	37.01	93.83	1,272.23	380.41	4,111.86	4,037.78	74.08	55.506		
9,450.00	7,686.55	7,883.00	7,516.80	101.48	37.01	91.68	1,272.23	380.41	4,122.47	4,048.22	74.24	55.525		
9,500.00	7,702.04	7,883.00	7,516.80	101.42	37.01	89.98	1,272.23	380.41	4,131.08	4,056.63	74.45	55.488		
9,550.00	7,714.20	7,883.00	7,516.80	101.33	37.01	88.70	1,272.23	380.41	4,137.65	4,062.96	74.70	55.391		
9,600.00	7,722.96	7,899.15	7,523.77	101.20	36.97	87.88	1,257.66	380.67	4,142.12	4,067.28	74.83	55.351		
9,650.00	7,728.24	7,964.82	7,549.93	101.06	36.83	87.70	1,197.45	382.05	4,143.94	4,069.42	74.51	55.615		
9,699.97	7,730.00	7,973.00	7,552.94	100.90	36.81	87.69	1,189.85	382.26	4,143.18	4,068.39	74.79	55.395		
9,800.00	7,730.00	8,016.34	7,568.28	100.56	36.71	87.90	1,149.32	382.92	4,140.07	4,064.91	75.16	55.082		
9,900.00	7,730.00	8,062.00	7,583.41	100.24	36.61	88.11	1,106.24	382.63	4,138.83	4,063.31	75.52	54.805		
9,933.44	7,730.00	8,062.00	7,583.41	100.13	36.61	88.11	1,106.24	382.63	4,138.70	4,062.89	75.80	54.598		
10,000.00	7,730.00	8,114.92	7,599.82	99.93	36.49	88.34	1,055.94	381.75	4,138.93	4,063.07	75.85	54.564		
10,100.00	7,730.00	8,197.91	7,622.47	99.64	36.32	88.65	976.13	380.46	4,139.48	4,063.54	75.95	54.506		
10,200.00	7,730.00	8,284.73	7,637.55	99.36	36.17	88.86	890.68	378.85	4,140.63	4,064.61	76.02	54.468		
10,300.00	7,730.00	8,371.78	7,645.87	99.09	36.04	88.97	804.06	377.28	4,141.93	4,065.79	76.14	54.397		
10,400.00	7,730.00	8,627.42	7,659.97	98.84	35.99	89.17	548.97	376.03	4,142.58	4,066.97	75.61	54.790		
10,500.00	7,730.00	8,724.71	7,660.26	98.61	36.16	89.17	451.69	377.82	4,140.41	4,064.28	76.13	54.389		
10,600.00	7,730.00	8,824.73	7,660.53	98.39	36.46	89.18	351.68	379.56	4,138.32	4,061.53	76.79	53.890		
10,700.00	7,730.00	8,944.84	7,660.48	98.18	37.01	89.18	231.60	381.94	4,136.01	4,058.36	77.65	53.268		
10,800.00	7,730.00	9,025.65	7,660.35	97.99	37.49	89.17	150.81	383.63	4,133.59	4,055.02	78.57	52.610		
10,900.00	7,730.00	9,144.30	7,660.25	97.81	38.35	89.17	32.18	386.02	4,131.25	4,051.48	79.77	51.788		
11,000.00	7,730.00	9,233.47	7,660.14	97.64	39.08	89.17	-56.97	387.90	4,128.80	4,047.83	80.97	50.994		
11,100.00	7,730.00	9,347.01	7,660.12	97.50	40.13	89.17	-170.48	390.24	4,126.42	4,043.96	82.46	50.043		
11,200.00	7,730.00	9,469.22	7,659.49	97.36	41.36	89.16	-292.65	393.56	4,123.35	4,039.16	84.19	48.978		
11,300.00	7,730.00	9,527.18	7,658.20	97.24	41.98	89.14	-350.57	395.04	4,120.55	4,035.16	85.39	48.258		
11,400.00	7,730.00	9,576.00	7,656.92	97.14	42.51	89.12	-399.37	395.65	4,118.99	4,032.47	86.51	47.611		
11,500.00	7,730.00	9,643.98	7,656.42	97.06	43.26	89.12	-467.34	395.80	4,118.44	4,030.54	87.90	46.856		
11,600.00	7,730.00	9,753.00	7,659.15	96.98	44.50	89.15	-576.33	395.55	4,118.31	4,028.45	89.86	45.832		
11,700.00	7,730.00	9,835.70	7,661.20	96.93	45.48	89.18	-659.00	395.39	4,118.13	4,026.56	91.57	44.974		
11,743.02	7,730.00	9,910.47	7,662.86	96.91	46.39	89.20	-733.75	395.33	4,118.02	4,025.13	92.89	44.331		
11,800.00	7,730.00	10,038.23	7,666.03	96.90	48.00	89.25	-861.46	396.87	4,117.13	4,021.95	95.18	43.258		
11,900.00	7,730.00	10,209.25	7,669.98	96.88	50.27	89.30	-1,032.37	401.71	4,114.02	4,015.39	98.62	41.714		
12,000.00	7,730.00	10,199.00	7,669.78	96.88	50.13	89.30	-1,022.13	401.33	4,111.31	4,012.33	98.97	41.539		
12,100.00	7,730.00	10,255.41	7,670.36	96.90	50.88	89.31	-1,078.51	402.40	4,109.62	4,009.12	100.50	40.893		
12,106.30	7,730.00	10,257.14	7,670.36	96.90	50.91	89.31	-1,080.25	402.40	4,109.59	4,009.03	100.56	40.866		
12,200.00	7,730.00	10,288.00	7,670.22	96.94	51.32	89.31	-1,111.11	402.09	4,110.07	4,008.47	101.60	40.454		
12,300.00	7,730.00	10,460.60	7,667.55	97.00	53.67	89.27	-1,283.68	400.94	4,110.44	4,005.16	105.28	39.043		
12,400.00	7,730.00	10,603.08	7,663.87	97.08	55.68	89.22	-1,426.10	402.56	4,108.84	4,000.28	108.56	37.849		
12,500.00	7,730.00	12,500.00	7,660.32	97.18	83.70	89.17	-1,539.23	404.19	4,107.11	3,969.24	137.87	29.790		
12,600.00	7,730.00	10,773.83	7,658.39	97.31	58.14	89.14	-1,596.74	405.06	4,105.48	3,992.46	113.02	36.325		
12,656.82	7,730.00	10,794.32	7,657.67	97.39	58.44	89.13	-1,617.22	405.09	4,105.23	3,991.52	113.72	36.101		
12,700.00	7,730.00	10,823.00	7,656.65	97.46	58.86	89.12	-1,645.88	404.83	4,105.44	3,990.92	114.52	35.850		
12,800.00	7,730.00	10,964.07	7,651.38	97.64	60.92	89.04	-1,786.85	404.26	4,105.67	3,987.65	118.03	34.786		
12,897.47	7,730.00	11,035.16	7,648.47	97.85	61.98	89.00	-1,857.88	404.51	4,105.15	3,985.12	120.03	34.200		
12,900.00	7,730.00	11,036.38	7,648.41	97.85	61.99	89.00	-1,859.09	404.50	4,105.15	3,985.08	120.07	34.189		
13,000.00	7,730.00	11,090.00	7,645.75	98.09	62.79	88.96	-1,912.65	403.97	4,105.82	3,984.12	121.70	33.738		
13,100.00	7,730.00	11,250.55	7,636.61	98.35	65.20	88.84	-2,072.93	402.66	4,106.52	3,980.71	125.81	32.641		
13,158.32	7,730.00	11,296.43	7,633.74	98.52	65.90	88.80	-2,118.72	402.71	4,106.35	3,979.23	127.12	32.302		
13,200.00	7,730.00	11,319.92	7,632.26	98.65	66.25	88.78	-2,142.16	402.61	4,106.44	3,978.60	127.84	32.122		
13,300.00	7,730.00	11,402.89	7,627.04	98.98	67.52	88.70	-2,224.96	401.68	4,107.31	3,977.11	130.21	31.545		
13,400.00	7,730.00	11,488.37	7,621.47	99.34	68.83	88.63	-2,310.25	400.84	4,108.15	3,975.50	132.65	30.970		
13,500.00	7,730.00	11,551.40	7,617.03	99.74	69.79	88.56	-2,373.11	399.66	4,109.85	3,975.29	134.55	30.545		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,600.00	7,730.00	11,625.00	7,613.02	100.17	70.92	88.51	-2,446.58	397.69	4,112.31	3,975.58	136.73	30.076		
13,700.00	7,730.00	11,814.91	7,604.43	100.65	73.86	88.39	-2,636.26	394.19	4,113.90	3,971.97	141.92	28.987		
13,800.00	7,730.00	11,978.69	7,596.77	101.16	76.45	88.28	-2,799.86	393.95	4,113.93	3,967.39	146.54	28.074		
13,868.93	7,730.00	12,008.17	7,595.43	101.53	76.92	88.26	-2,829.31	394.05	4,113.58	3,966.03	147.55	27.879		
13,900.00	7,730.00	12,020.62	7,594.82	101.71	77.11	88.26	-2,841.74	394.00	4,113.65	3,965.67	147.98	27.799		
14,000.00	7,730.00	12,071.00	7,592.11	102.30	77.91	88.22	-2,892.04	393.22	4,114.86	3,965.24	149.62	27.502		
14,100.00	7,730.00	12,197.68	7,584.23	102.93	79.92	88.11	-3,018.45	391.15	4,116.40	3,963.08	153.32	26.849		
14,200.00	7,730.00	12,302.74	7,578.15	103.60	81.60	88.03	-3,123.33	390.01	4,117.35	3,960.88	156.47	26.315		
14,300.00	7,730.00	12,447.81	7,574.29	104.32	83.93	87.97	-3,268.33	388.98	4,117.86	3,957.08	160.78	25.611		
14,400.00	7,730.00	12,586.40	7,572.85	105.07	86.18	87.95	-3,406.91	389.56	4,117.12	3,952.14	164.98	24.956		
14,500.00	7,730.00	14,500.00	7,571.37	105.86	117.66	87.93	-3,520.29	390.83	4,115.69	3,917.35	198.35	20.750		
14,600.00	7,730.00	12,746.13	7,570.73	106.70	88.79	87.92	-3,566.62	391.09	4,114.87	3,944.77	170.09	24.192		
14,611.41	7,730.00	12,751.28	7,570.65	106.80	88.87	87.92	-3,571.77	391.08	4,114.86	3,944.59	170.27	24.167		
14,700.00	7,730.00	12,796.97	7,569.89	107.57	89.62	87.91	-3,617.45	390.67	4,115.37	3,943.56	171.81	23.953		
14,800.00	7,730.00	12,872.96	7,569.40	108.48	90.85	87.90	-3,693.43	389.41	4,116.71	3,942.45	174.25	23.625		
14,900.00	7,730.00	12,998.86	7,569.49	109.43	92.91	87.91	-3,819.31	387.33	4,118.02	3,939.83	178.19	23.110		
15,000.00	7,730.00	13,164.57	7,569.18	110.42	95.63	87.90	-3,985.01	386.36	4,118.31	3,934.98	183.33	22.464		
15,100.00	7,730.00	13,254.31	7,569.92	111.43	97.11	87.91	-4,074.75	386.64	4,117.64	3,931.40	186.24	22.109		
15,132.35	7,730.00	13,272.27	7,570.29	111.77	97.41	87.92	-4,092.71	386.60	4,117.59	3,930.73	186.86	22.036		
15,200.00	7,730.00	13,318.00	7,571.68	112.49	98.17	87.94	-4,138.41	386.19	4,117.85	3,929.46	188.39	21.858		
15,300.00	7,730.00	13,462.99	7,577.42	113.57	100.57	88.02	-4,283.28	385.17	4,118.18	3,925.15	193.03	21.335		
15,382.83	7,730.00	13,496.00	7,578.84	114.49	101.12	88.04	-4,316.26	385.26	4,117.96	3,923.75	194.21	21.203		
15,400.00	7,730.00	13,523.54	7,579.93	114.68	101.58	88.05	-4,343.79	385.20	4,117.83	3,922.73	195.09	21.107		
15,500.00	7,730.00	13,556.58	7,580.94	115.82	102.12	88.06	-4,376.80	384.66	4,119.04	3,922.76	196.28	20.985		
15,600.00	7,730.00	13,599.98	7,581.82	116.99	102.84	88.08	-4,420.17	383.19	4,121.86	3,924.11	197.76	20.843		
15,700.00	7,730.00	13,721.81	7,583.72	118.19	104.85	88.11	-4,541.90	378.77	4,125.12	3,923.42	201.70	20.452		
15,800.00	7,730.00	13,852.46	7,584.57	119.41	107.01	88.12	-4,672.50	375.11	4,127.55	3,921.62	205.93	20.043		
15,900.00	7,730.00	15,900.00	7,581.37	120.65	141.47	88.08	-4,858.73	373.24	4,127.95	3,884.51	243.45	16.956		
16,000.00	7,730.00	14,088.50	7,580.07	121.91	110.96	88.06	-4,908.47	372.96	4,128.43	3,914.85	213.59	19.329		
16,100.00	7,730.00	14,187.89	7,578.02	123.20	112.62	88.03	-5,007.82	370.91	4,130.23	3,913.39	216.84	19.047		
16,200.00	7,730.00	14,266.84	7,576.95	124.50	113.94	88.02	-5,086.75	369.66	4,131.57	3,912.11	219.46	18.826		
16,300.00	7,730.00	14,374.73	7,577.58	125.82	115.75	88.03	-5,194.61	367.18	4,133.53	3,910.51	223.02	18.534		
16,400.00	7,730.00	14,433.54	7,577.93	127.16	116.73	88.03	-5,253.40	365.83	4,135.53	3,910.52	225.00	18.380		
16,500.00	7,730.00	14,508.20	7,579.00	128.52	117.98	88.05	-5,328.01	363.14	4,138.66	3,911.17	227.49	18.193		
16,600.00	7,730.00	14,717.95	7,580.30	129.89	121.51	88.07	-5,537.67	358.33	4,140.66	3,906.28	234.38	17.666		
16,700.00	7,730.00	14,928.46	7,578.67	131.27	125.08	88.04	-5,748.17	358.93	4,140.27	3,899.07	241.20	17.165		
16,800.00	7,730.00	15,097.12	7,579.63	132.67	127.98	88.05	-5,916.75	363.93	4,136.70	3,890.00	246.70	16.768		
16,900.00	7,730.00	15,194.74	7,580.09	134.09	129.66	88.06	-6,014.31	367.24	4,132.96	3,882.95	250.01	16.531		
17,000.00	7,730.00	15,320.54	7,580.43	135.51	131.83	88.06	-6,140.02	371.98	4,128.83	3,874.65	254.18	16.244		
17,100.00	7,730.00	15,402.66	7,580.50	136.95	133.25	88.06	-6,222.09	375.04	4,124.74	3,867.72	257.02	16.048		
17,200.00	7,730.00	15,508.94	7,580.50	138.40	135.09	88.06	-6,328.29	379.02	4,120.66	3,860.05	260.60	15.812		
17,300.00	7,730.00	15,613.35	7,580.15	139.85	136.89	88.05	-6,432.63	382.85	4,116.67	3,852.54	264.13	15.586		
17,400.00	7,730.00	15,683.03	7,580.54	141.32	138.10	88.06	-6,502.27	385.25	4,112.87	3,846.28	266.59	15.428		
17,500.00	7,730.00	15,736.00	7,581.84	142.80	139.01	88.07	-6,555.20	386.71	4,109.83	3,841.31	268.52	15.306		
17,600.00	7,730.00	15,780.71	7,583.62	144.28	139.78	88.10	-6,599.87	387.37	4,108.05	3,837.91	270.14	15.207		
17,650.79	7,730.00	15,798.84	7,584.52	145.04	140.09	88.11	-6,617.97	387.38	4,107.77	3,836.97	270.80	15.169		
17,700.00	7,730.00	15,825.00	7,586.00	145.78	140.54	88.13	-6,644.09	387.14	4,107.90	3,836.18	271.72	15.118		
17,800.00	7,730.00	15,870.00	7,588.80	147.28	141.31	88.17	-6,689.00	386.22	4,109.17	3,835.89	273.27	15.037		
17,900.00	7,730.00	15,916.03	7,591.38	148.79	142.09	88.21	-6,734.93	384.81	4,111.63	3,836.81	274.82	14.961		
18,000.00	7,730.00	15,978.86	7,593.90	150.31	143.15	88.24	-6,797.66	382.22	4,115.24	3,838.31	276.92	14.861		
18,100.00	7,730.00	16,074.00	7,597.06	151.83	144.76	88.29	-6,892.66	378.08	4,119.15	3,839.00	280.15	14.703		
18,200.00	7,730.00	16,150.94	7,599.24	153.37	146.07	88.32	-6,969.47	374.37	4,123.54	3,840.81	282.73	14.585		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,300.00	7,730.00	16,260.22	7,602.06	154.90	147.91	88.36	-7,078.58	368.89	4,128.14	3,841.68	286.46	14.411	
18,400.00	7,730.00	16,375.43	7,604.81	156.45	149.87	88.40	-7,193.64	363.68	4,132.25	3,841.84	290.41	14.229	
18,500.00	7,730.00	16,469.87	7,606.70	158.00	151.47	88.43	-7,287.97	359.45	4,136.33	3,842.71	293.62	14.088	
18,600.00	7,730.00	16,572.86	7,607.95	159.55	153.22	88.45	-7,390.84	354.78	4,140.49	3,843.37	297.12	13.935	
18,700.00	7,730.00	16,661.85	7,608.36	161.11	154.73	88.46	-7,479.74	350.73	4,144.70	3,844.57	300.13	13.810	
18,800.00	7,730.00	16,759.51	7,608.11	162.68	156.39	88.45	-7,577.29	346.11	4,149.09	3,845.65	303.44	13.674	
18,900.00	7,730.00	17,072.37	7,626.81	164.25	161.75	88.71	-7,889.34	339.27	4,150.48	3,836.16	314.32	13.205	
19,000.00	7,730.00	17,262.08	7,638.03	165.83	165.05	88.87	-8,078.69	342.17	4,148.30	3,827.55	320.74	12.933	
19,100.00	7,730.00	17,411.73	7,644.61	167.41	167.66	88.96	-8,228.12	346.78	4,144.76	3,818.97	325.80	12.722	
19,200.00	7,730.00	17,526.99	7,648.72	168.99	169.68	89.01	-8,343.22	351.03	4,140.70	3,810.95	329.75	12.557	
19,300.00	7,730.00	17,583.00	7,650.55	170.58	170.66	89.04	-8,399.16	353.26	4,136.53	3,804.69	331.84	12.465	
19,400.00	7,730.00	17,583.00	7,650.55	172.17	170.66	89.04	-8,399.16	353.26	4,134.38	3,802.34	332.04	12.451	
19,430.54	7,730.00	17,583.00	7,650.55	172.66	170.66	89.04	-8,399.16	353.26	4,134.21	3,802.14	332.07	12.450 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-52.92	786.89	-1,041.02	1,304.99					
100.00	100.00	90.77	90.77	0.13	0.15	-52.91	786.93	-1,040.95	1,304.93	1,304.64	0.29	4,573.219		
200.00	200.00	191.63	191.63	0.49	0.32	-52.90	787.08	-1,040.72	1,304.83	1,304.02	0.81	1,607.964		
300.00	300.00	292.49	292.49	0.85	0.49	-52.88	787.33	-1,040.33	1,304.68	1,303.34	1.34	975.370		
400.00	400.00	392.27	392.27	1.21	0.79	-52.87	787.48	-1,039.97	1,304.48	1,302.49	2.00	653.685		
500.00	500.00	491.68	491.68	1.57	1.13	-52.89	787.02	-1,040.14	1,304.33	1,301.63	2.70	483.417		
507.59	507.59	499.23	499.23	1.60	1.16	-118.24	786.96	-1,040.17	1,304.33	1,301.58	2.75	474.100		
600.00	599.98	594.42	594.41	1.92	1.49	-118.36	785.87	-1,040.85	1,305.05	1,301.64	3.41	382.963		
700.00	699.84	736.24	736.15	2.28	1.99	-118.53	785.73	-1,036.95	1,305.15	1,300.89	4.26	306.502		
800.00	799.45	873.50	872.83	2.64	2.49	-118.56	789.84	-1,025.35	1,304.34	1,299.23	5.11	255.295		
900.00	898.70	982.51	980.61	3.02	2.91	-118.45	796.97	-1,010.75	1,303.34	1,297.45	5.89	221.310		
929.59	927.98	1,013.00	1,010.56	3.13	3.03	-118.39	799.88	-1,005.88	1,303.28	1,297.16	6.12	212.854 CC		
1,000.00	997.47	1,085.70	1,081.55	3.41	3.34	-118.19	808.57	-992.84	1,303.63	1,296.93	6.70	194.574 ES		
1,100.00	1,095.62	1,187.36	1,179.67	3.84	3.82	-117.78	824.49	-971.58	1,305.38	1,297.81	7.57	172.408		
1,200.00	1,193.06	1,266.78	1,255.98	4.29	4.21	-117.46	838.28	-954.46	1,309.35	1,300.96	8.40	155.954		
1,300.00	1,289.64	1,421.43	1,404.47	4.78	5.03	-117.11	863.91	-919.79	1,313.70	1,304.05	9.65	136.119		
1,400.00	1,385.27	1,521.38	1,499.29	5.32	5.61	-116.85	881.64	-893.61	1,317.39	1,306.67	10.72	122.943		
1,500.00	1,479.82	1,595.64	1,569.53	5.90	6.05	-116.66	896.00	-874.22	1,323.74	1,312.05	11.70	113.160		
1,600.00	1,573.17	1,677.13	1,646.61	6.53	6.55	-116.50	913.17	-854.13	1,333.75	1,320.98	12.77	104.472		
1,700.00	1,665.21	1,794.94	1,758.76	7.23	7.25	-116.57	936.13	-826.36	1,345.34	1,331.25	14.09	95.506		
1,800.00	1,755.84	1,957.76	1,914.39	7.98	8.22	-117.14	961.45	-785.80	1,354.98	1,339.31	15.67	86.448		
1,900.00	1,844.94	2,055.55	2,008.25	8.80	8.79	-117.66	973.06	-760.97	1,363.85	1,346.93	16.92	80.590		
2,000.00	1,932.39	2,134.50	2,084.20	9.68	9.25	-118.10	982.71	-741.69	1,375.56	1,357.45	18.11	75.957		
2,100.00	2,018.11	2,100.00	2,190.65	10.63	9.04	-118.89	996.64	-714.57	1,389.34	1,370.64	18.70	74.293		
2,200.00	2,101.97	2,345.59	2,287.00	11.65	10.48	-119.67	1,008.30	-689.05	1,403.89	1,383.03	20.86	67.288		
2,300.00	2,183.88	2,407.37	2,346.54	12.74	10.83	-120.07	1,015.78	-674.37	1,422.28	1,400.23	22.05	64.509		
2,400.00	2,263.74	2,471.43	2,408.50	13.90	11.19	-120.49	1,024.17	-660.46	1,445.06	1,421.81	23.25	62.147		
2,431.61	2,288.54	2,488.00	2,424.54	14.29	11.28	-120.57	1,026.50	-656.97	1,453.11	1,429.49	23.61	61.536		
2,500.00	2,341.97	2,537.88	2,472.83	15.13	11.56	-121.24	1,033.76	-646.81	1,471.44	1,446.97	24.47	60.130		
2,600.00	2,420.08	2,624.46	2,556.77	16.37	12.03	-122.37	1,046.99	-630.23	1,500.03	1,474.23	25.80	58.147		
2,700.00	2,498.20	2,782.26	2,708.05	17.63	12.97	-124.17	1,072.67	-593.53	1,526.02	1,498.43	27.59	55.305		
2,800.00	2,576.32	2,842.22	2,765.47	18.89	13.32	-124.82	1,082.32	-579.23	1,552.26	1,523.48	28.77	53.945		
2,900.00	2,654.43	2,981.46	2,899.56	20.17	14.14	-126.42	1,101.67	-547.14	1,578.87	1,548.50	30.37	51.985		
3,000.00	2,732.55	3,074.66	2,989.24	21.45	14.68	-127.47	1,113.05	-524.50	1,604.21	1,572.54	31.68	50.644		
3,100.00	2,810.67	3,149.20	3,060.65	22.74	15.13	-128.24	1,123.79	-506.01	1,630.51	1,597.63	32.88	49.594		
3,200.00	2,888.78	3,218.00	3,126.86	24.03	15.53	-128.94	1,133.97	-490.32	1,658.94	1,624.92	34.02	48.768		
3,300.00	2,966.90	3,308.21	3,213.83	25.33	16.05	-129.84	1,147.41	-470.47	1,688.64	1,653.38	35.26	47.892		
3,400.00	3,045.02	3,432.08	3,333.03	26.63	16.77	-131.08	1,163.56	-440.92	1,716.24	1,679.57	36.66	46.810		
3,500.00	3,123.13	3,487.30	3,386.56	27.94	17.08	-131.66	1,169.62	-428.82	1,745.60	1,707.98	37.62	46.400		
3,600.00	3,201.25	3,569.15	3,465.95	29.24	17.53	-132.48	1,179.57	-411.63	1,776.61	1,737.90	38.70	45.902		
3,700.00	3,279.37	3,678.32	3,571.12	30.55	18.16	-133.43	1,196.01	-387.40	1,807.83	1,767.83	40.00	45.196		
3,800.00	3,357.49	3,791.29	3,679.64	31.86	18.83	-134.36	1,213.22	-361.13	1,838.49	1,797.17	41.32	44.491		
3,900.00	3,435.60	3,870.18	3,755.35	33.18	19.29	-135.00	1,224.72	-342.17	1,868.63	1,826.24	42.40	44.076		
4,000.00	3,513.72	3,916.14	3,799.85	34.49	19.54	-135.39	1,230.68	-332.36	1,901.01	1,857.81	43.21	44.000		
4,100.00	3,591.84	3,962.00	3,844.61	35.81	19.79	-135.82	1,235.93	-323.91	1,935.91	1,891.95	43.96	44.036		
4,200.00	3,669.95	4,094.71	3,974.04	37.12	20.48	-136.98	1,251.80	-299.28	1,971.21	1,925.97	45.25	43.564		
4,300.00	3,748.07	4,250.80	4,124.20	38.44	21.39	-138.06	1,276.58	-264.75	2,004.62	1,957.81	46.81	42.825		
4,400.00	3,826.19	4,371.23	4,238.84	39.76	22.15	-138.79	1,296.90	-233.98	2,034.98	1,986.82	48.16	42.254		
4,500.00	3,904.30	4,459.76	4,323.71	41.08	22.69	-139.38	1,309.52	-212.17	2,066.02	2,016.79	49.23	41.964		
4,600.00	3,982.42	4,548.80	4,408.91	42.40	23.23	-139.93	1,322.77	-189.96	2,097.13	2,046.82	50.31	41.687		
4,700.00	4,060.54	4,610.61	4,468.00	43.72	23.61	-140.30	1,332.70	-174.81	2,129.14	2,077.94	51.20	41.588		
4,800.00	4,138.66	4,656.58	4,512.22	45.05	23.88	-140.57	1,339.95	-164.52	2,163.17	2,111.23	51.94	41.648		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	4,713.89	4,567.64	46.37	24.20	-140.92	1,348.76	-152.90	2,199.18	2,146.46	52.73	41.710		
5,000.00	4,294.89	4,919.39	4,766.64	47.69	25.34	-142.22	1,376.26	-109.92	2,235.66	2,181.20	54.46	41.052		
5,100.00	4,373.01	5,047.61	4,889.89	49.02	26.10	-143.04	1,390.34	-77.49	2,266.65	2,211.03	55.62	40.750		
5,200.00	4,451.12	5,107.52	4,947.49	50.34	26.45	-143.40	1,397.26	-62.51	2,298.38	2,241.97	56.41	40.748		
5,300.00	4,529.24	5,165.55	5,003.45	51.67	26.79	-143.75	1,404.15	-48.79	2,331.62	2,274.47	57.15	40.795		
5,400.00	4,607.36	5,209.00	5,045.42	52.99	27.04	-144.00	1,409.66	-39.02	2,366.47	2,308.68	57.79	40.949		
5,500.00	4,685.47	5,274.91	5,109.26	54.32	27.40	-144.36	1,418.45	-25.15	2,402.79	2,344.23	58.56	41.030		
5,600.00	4,763.59	5,371.28	5,202.77	55.64	27.93	-144.87	1,431.70	-6.01	2,440.31	2,380.76	59.55	40.982		
5,700.00	4,841.71	5,496.27	5,323.47	56.97	28.64	-145.47	1,450.59	20.39	2,476.94	2,416.17	60.77	40.757		
5,800.00	4,919.83	5,647.14	5,468.81	58.30	29.52	-146.19	1,471.52	55.00	2,511.84	2,449.70	62.14	40.421		
5,900.00	4,997.94	5,701.39	5,520.97	59.62	29.83	-146.44	1,479.23	67.74	2,546.49	2,483.64	62.85	40.517		
6,000.00	5,076.06	5,757.30	5,574.98	60.95	30.15	-146.70	1,487.08	79.89	2,582.76	2,519.22	63.54	40.646		
6,100.00	5,154.18	5,922.76	5,735.16	62.28	31.08	-147.50	1,507.28	116.07	2,619.42	2,554.49	64.93	40.343		
6,200.00	5,232.29	5,974.99	5,785.53	63.61	31.38	-147.74	1,513.97	128.14	2,654.61	2,589.02	65.59	40.474		
6,300.00	5,310.41	6,035.43	5,843.86	64.93	31.72	-147.99	1,522.67	141.35	2,691.18	2,624.88	66.30	40.589		
6,400.00	5,388.53	6,099.00	5,905.21	66.26	32.09	-148.23	1,532.46	154.81	2,728.64	2,661.60	67.05	40.698		
6,500.00	5,466.64	6,150.23	5,954.79	67.59	32.37	-148.43	1,540.32	165.05	2,767.34	2,699.67	67.67	40.895		
6,600.00	5,544.76	6,200.00	6,043.24	68.92	34.68	-148.82	1,551.66	181.95	2,807.15	2,737.07	70.08	40.056		
6,700.00	5,622.88	6,390.86	6,189.59	70.25	33.60	-149.60	1,563.40	211.72	2,845.65	2,775.98	69.66	40.848		
6,800.00	5,701.00	6,594.77	6,387.30	71.58	34.71	-150.61	1,578.97	258.87	2,880.89	2,809.82	71.07	40.537		
6,900.00	5,779.11	6,634.00	6,424.94	72.91	34.94	-150.75	1,584.32	268.56	2,915.91	2,844.29	71.62	40.713		
7,000.00	5,857.23	6,694.05	6,482.61	74.23	35.29	-150.94	1,593.46	282.56	2,952.18	2,879.85	72.33	40.816		
7,100.00	5,935.35	7,223.27	6,981.42	75.56	38.69	-152.87	1,653.22	439.06	2,978.78	2,903.23	75.54	39.432		
7,200.00	6,013.46	7,258.00	7,013.78	76.89	38.88	-153.16	1,648.40	450.68	3,003.59	2,927.58	76.00	39.519		
7,300.00	6,091.58	7,258.00	7,013.78	78.22	38.88	-153.16	1,648.40	450.68	3,030.96	2,954.50	76.46	39.643		
7,400.00	6,169.70	7,258.00	7,013.78	79.55	38.88	-153.16	1,648.40	450.68	3,061.35	2,984.51	76.84	39.843		
7,500.00	6,247.81	7,307.66	7,060.22	80.88	39.05	-153.62	1,638.25	465.00	3,092.64	3,015.60	77.04	40.142		
7,600.00	6,325.93	7,348.00	7,097.92	82.21	39.19	-154.04	1,627.18	474.07	3,127.81	3,050.62	77.20	40.516		
7,700.00	6,404.05	7,348.00	7,097.92	83.54	39.19	-154.04	1,627.18	474.07	3,164.44	3,087.02	77.42	40.872		
7,800.00	6,482.17	7,348.00	7,097.92	84.87	39.19	-154.04	1,627.18	474.07	3,203.77	3,126.19	77.59	41.293		
7,900.00	6,560.28	7,348.00	7,097.92	86.20	39.19	-154.04	1,627.18	474.07	3,245.71	3,168.02	77.69	41.776		
8,000.00	6,638.40	7,383.22	7,130.61	87.53	39.24	-154.44	1,615.64	480.21	3,289.22	3,211.57	77.65	42.357		
8,100.00	6,716.52	7,397.38	7,143.67	88.86	39.26	-154.61	1,610.56	482.26	3,335.15	3,257.51	77.64	42.959		
8,200.00	6,794.63	7,437.00	7,179.86	90.20	39.31	-155.09	1,595.06	486.67	3,383.65	3,306.14	77.50	43.658		
8,300.00	6,872.75	7,437.00	7,179.86	91.53	39.31	-155.09	1,595.06	486.67	3,433.22	3,355.76	77.46	44.322		
8,400.00	6,950.87	7,437.00	7,179.86	92.86	39.31	-155.09	1,595.06	486.67	3,484.95	3,407.57	77.38	45.038		
8,500.00	7,028.98	7,437.00	7,179.86	94.19	39.31	-155.09	1,595.06	486.67	3,538.76	3,461.50	77.26	45.803		
8,600.00	7,107.10	7,470.25	7,209.86	95.52	39.32	-155.51	1,580.93	489.17	3,593.97	3,516.93	77.04	46.651		
8,647.91	7,144.53	7,478.22	7,217.01	96.16	39.32	-155.61	1,577.45	489.65	3,621.06	3,544.11	76.95	47.059		
8,650.00	7,146.16	7,478.57	7,217.31	96.18	39.32	-156.00	1,577.30	489.67	3,622.25	3,545.31	76.94	47.077		
8,700.00	7,185.66	7,487.09	7,224.95	96.84	39.32	-165.80	1,573.53	490.13	3,651.03	3,574.18	76.85	47.510		
8,750.00	7,225.78	8,750.00	7,262.34	97.47	39.95	-176.41	1,554.22	491.75	3,680.70	3,603.62	77.08	47.750		
8,800.00	7,266.21	7,673.07	7,385.73	98.08	39.33	171.97	1,481.14	501.96	3,709.43	3,633.24	76.19	48.687		
8,850.00	7,306.63	7,704.00	7,411.16	98.64	39.33	161.61	1,463.79	504.81	3,736.94	3,660.90	76.04	49.144		
8,900.00	7,346.75	7,730.02	7,432.11	99.17	39.32	151.70	1,448.54	507.19	3,763.91	3,688.00	75.91	49.585		
8,950.00	7,386.25	7,756.03	7,452.48	99.64	39.31	142.42	1,432.54	509.56	3,790.13	3,714.35	75.77	50.020		
9,000.00	7,424.84	8,060.00	7,625.16	100.06	39.12	131.76	1,191.19	552.24	3,813.97	3,740.25	73.72	51.736		
9,050.00	7,462.22	8,092.44	7,635.17	100.42	39.10	124.29	1,160.98	558.52	3,834.92	3,761.44	73.47	52.194		
9,100.00	7,498.11	8,103.84	7,638.44	100.74	39.09	117.89	1,150.26	560.59	3,854.79	3,781.41	73.38	52.533		
9,150.00	7,532.24	8,115.82	7,641.73	100.99	39.08	112.28	1,138.93	562.69	3,873.24	3,799.96	73.29	52.851		
9,200.00	7,564.34	8,149.00	7,650.10	101.19	39.07	107.28	1,107.28	568.07	3,890.31	3,817.27	73.05	53.257		
9,250.00	7,594.17	8,149.00	7,650.10	101.34	39.07	103.22	1,107.28	568.07	3,905.35	3,832.29	73.06	53.451		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	8,149.00	7,650.10	101.45	39.07	99.76	1,107.28	568.07	3,918.73	3,845.63	73.11	53.604		
9,350.00	7,646.13	8,149.00	7,650.10	101.50	39.07	96.86	1,107.28	568.07	3,930.37	3,857.20	73.17	53.713		
9,400.00	7,667.87	8,149.00	7,650.10	101.51	39.07	94.46	1,107.28	568.07	3,940.19	3,866.92	73.28	53.772		
9,450.00	7,686.55	8,187.88	7,658.66	101.48	39.02	92.46	1,069.74	573.42	3,947.34	3,874.22	73.12	53.987		
9,500.00	7,702.04	8,199.66	7,661.02	101.42	39.01	90.99	1,058.28	574.81	3,952.80	3,879.61	73.19	54.008		
9,550.00	7,714.20	8,238.00	7,667.91	101.33	38.98	89.94	1,020.76	578.59	3,956.52	3,883.43	73.09	54.134		
9,600.00	7,722.96	8,238.00	7,667.91	101.20	38.98	89.33	1,020.76	578.59	3,957.46	3,884.14	73.33	53.971		
9,650.00	7,728.24	8,238.00	7,667.91	101.06	38.98	89.10	1,020.76	578.59	3,956.41	3,882.80	73.61	53.747		
9,699.97	7,730.00	8,258.89	7,671.30	100.90	38.95	89.29	1,000.22	580.29	3,953.28	3,879.50	73.78	53.581		
9,800.00	7,730.00	8,327.00	7,681.80	100.56	38.89	89.44	933.10	585.22	3,945.33	3,871.37	73.96	53.343		
9,900.00	7,730.00	8,372.33	7,688.14	100.24	38.86	89.54	888.31	588.03	3,938.42	3,864.04	74.38	52.951		
10,000.00	7,730.00	8,417.00	7,693.68	99.93	38.84	89.62	844.05	590.50	3,932.61	3,857.79	74.81	52.566		
10,100.00	7,730.00	8,417.00	7,693.68	99.64	38.84	89.62	844.05	590.50	3,928.92	3,853.32	75.60	51.970		
10,200.00	7,730.00	8,466.01	7,698.40	99.36	38.80	89.68	795.29	591.96	3,926.37	3,850.30	76.07	51.616		
10,228.73	7,730.00	8,472.25	7,698.86	99.28	38.80	89.69	789.08	591.98	3,926.13	3,849.86	76.27	51.477		
10,300.00	7,730.00	8,506.00	7,700.82	99.09	38.79	89.72	755.39	591.52	3,926.45	3,849.84	76.61	51.253		
10,400.00	7,730.00	8,506.00	7,700.82	98.84	38.79	89.72	755.39	591.52	3,928.14	3,850.66	77.48	50.699		
10,500.00	7,730.00	8,544.29	7,702.33	98.61	38.75	89.74	717.15	590.02	3,931.81	3,853.73	78.08	50.358		
10,600.00	7,730.00	8,595.00	7,703.72	98.39	38.73	89.76	666.56	586.89	3,937.31	3,858.70	78.61	50.086		
10,700.00	7,730.00	8,683.75	7,705.74	98.18	38.71	89.79	578.05	580.73	3,943.84	3,864.89	78.95	49.955		
10,800.00	7,730.00	9,058.79	7,716.13	97.99	39.50	89.94	203.51	568.04	3,948.14	3,868.91	79.23	49.834		
10,900.00	7,730.00	9,129.00	7,716.54	97.81	39.84	89.95	133.30	568.17	3,947.62	3,867.48	80.13	49.263		
10,920.28	7,730.00	9,141.89	7,716.63	97.77	39.90	89.95	120.41	568.13	3,947.61	3,867.28	80.33	49.143		
11,000.00	7,730.00	9,192.83	7,717.07	97.64	40.18	89.96	69.47	567.75	3,947.93	3,866.84	81.09	48.687		
11,100.00	7,730.00	9,472.09	7,719.12	97.50	42.26	89.99	-209.71	571.11	3,946.31	3,862.69	83.62	47.194		
11,200.00	7,730.00	9,625.99	7,717.47	97.36	43.74	89.96	-363.46	577.49	3,941.81	3,856.04	85.77	45.960		
11,300.00	7,730.00	9,732.42	7,715.70	97.24	44.87	89.94	-469.74	582.78	3,936.50	3,848.92	87.58	44.947		
11,400.00	7,730.00	9,790.01	7,714.66	97.14	45.50	89.92	-527.26	585.43	3,931.63	3,842.78	88.85	44.250		
11,500.00	7,730.00	9,842.00	7,714.44	97.06	46.08	89.92	-579.22	587.07	3,928.08	3,838.01	90.07	43.609		
11,600.00	7,730.00	9,931.00	7,714.64	96.98	47.10	89.92	-668.19	589.43	3,925.10	3,833.24	91.86	42.731		
11,700.00	7,730.00	9,965.83	7,714.66	96.93	47.49	89.92	-703.02	590.07	3,923.11	3,830.22	92.89	42.234		
11,759.10	7,730.00	9,982.94	7,714.66	96.91	47.69	89.92	-720.12	590.10	3,922.79	3,829.33	93.46	41.974		
11,800.00	7,730.00	10,020.00	7,714.61	96.90	48.12	89.92	-757.18	589.55	3,923.22	3,829.01	94.21	41.642		
11,900.00	7,730.00	10,032.57	7,714.59	96.88	48.27	89.92	-769.75	589.21	3,924.57	3,829.64	94.93	41.341		
12,000.00	7,730.00	10,128.37	7,714.28	96.88	49.39	89.92	-865.51	586.63	3,926.93	3,830.02	96.92	40.519		
12,100.00	7,730.00	10,226.25	7,713.48	96.90	50.56	89.90	-963.34	583.80	3,929.48	3,830.48	99.00	39.690		
12,200.00	7,730.00	10,403.81	7,710.64	96.94	52.80	89.86	-1,140.84	580.24	3,931.29	3,828.71	102.58	38.323		
12,260.45	7,730.00	10,484.42	7,709.64	96.97	53.86	89.85	-1,221.44	579.98	3,931.22	3,826.85	104.37	37.664		
12,300.00	7,730.00	10,505.41	7,709.45	97.00	54.13	89.85	-1,242.43	579.86	3,931.31	3,826.36	104.95	37.459		
12,400.00	7,730.00	10,569.21	7,708.92	97.08	54.98	89.84	-1,306.23	578.93	3,932.37	3,825.75	106.63	36.880		
12,500.00	7,730.00	10,741.59	7,705.70	97.18	57.33	89.79	-1,478.56	577.73	3,932.65	3,822.10	110.55	35.574		
12,565.00	7,730.00	10,789.04	7,704.16	97.26	58.00	89.77	-1,525.99	577.65	3,932.54	3,820.73	111.81	35.171		
12,600.00	7,730.00	10,816.76	7,703.24	97.31	58.38	89.76	-1,553.69	577.53	3,932.57	3,820.04	112.53	34.946		
12,700.00	7,730.00	10,869.94	7,702.08	97.46	59.13	89.74	-1,606.86	576.96	3,933.33	3,819.27	114.07	34.482		
12,800.00	7,730.00	10,925.01	7,702.37	97.64	59.90	89.74	-1,661.91	575.67	3,935.32	3,819.66	115.66	34.025		
12,900.00	7,730.00	11,000.00	7,703.93	97.85	60.95	89.77	-1,736.84	573.21	3,938.22	3,820.51	117.71	33.456		
13,000.00	7,730.00	11,121.10	7,707.96	98.09	62.67	89.82	-1,857.80	569.28	3,941.13	3,820.24	120.89	32.601		
13,100.00	7,730.00	11,364.79	7,715.38	98.35	66.26	89.93	-2,101.34	567.35	3,941.07	3,813.90	127.17	30.990		
13,200.00	7,730.00	11,454.30	7,716.81	98.65	67.61	89.95	-2,190.84	567.82	3,940.20	3,810.46	129.74	30.370		
13,300.00	7,730.00	11,563.95	7,718.16	98.98	69.27	89.97	-2,300.48	568.43	3,939.31	3,806.46	132.85	29.653		
13,400.00	7,730.00	11,656.80	7,718.91	99.34	70.69	89.98	-2,393.32	569.05	3,938.30	3,802.75	135.55	29.054		
13,500.00	7,730.00	11,731.15	7,719.01	99.74	71.83	89.99	-2,467.67	569.18	3,937.79	3,800.01	137.78	28.580		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,522.19	7,730.00	11,746.64	7,718.99	99.83	72.07	89.99	-2,483.16	569.14	3,937.77	3,799.52	138.25	28.483		
13,600.00	7,730.00	11,802.00	7,718.81	100.17	72.92	89.98	-2,538.52	568.79	3,938.01	3,798.09	139.92	28.145		
13,700.00	7,730.00	11,942.64	7,717.63	100.65	75.11	89.97	-2,679.15	568.68	3,937.62	3,793.66	143.96	27.352		
13,800.00	7,730.00	12,029.48	7,716.27	101.16	76.46	89.95	-2,765.98	568.62	3,937.35	3,790.78	146.57	26.864		
13,900.00	7,730.00	12,170.31	7,713.72	101.71	78.68	89.91	-2,906.79	568.83	3,936.92	3,786.23	150.69	26.126		
14,000.00	7,730.00	12,269.91	7,711.84	102.30	80.26	89.88	-3,006.36	569.70	3,935.72	3,782.01	153.71	25.605		
14,100.00	7,730.00	12,337.00	7,710.18	102.93	81.33	89.86	-3,073.43	570.16	3,934.79	3,778.98	155.81	25.254		
14,149.02	7,730.00	12,373.57	7,709.21	103.25	81.91	89.84	-3,109.99	570.21	3,934.60	3,777.65	156.95	25.069		
14,200.00	7,730.00	12,399.44	7,708.62	103.60	82.32	89.83	-3,135.85	570.04	3,934.76	3,776.99	157.78	24.938		
14,300.00	7,730.00	12,460.02	7,707.52	104.32	83.29	89.82	-3,196.42	569.08	3,935.97	3,776.28	159.69	24.648		
14,400.00	7,730.00	12,547.75	7,706.81	105.07	84.68	89.81	-3,284.12	567.05	3,937.93	3,775.53	162.40	24.248		
14,500.00	7,730.00	12,717.05	7,708.80	105.86	87.38	89.84	-3,453.39	564.82	3,938.83	3,771.25	167.58	23.505		
14,600.00	7,730.00	14,600.00	7,710.42	106.70	118.51	89.86	-3,695.13	567.41	3,937.70	3,735.30	202.39	19.456		
14,700.00	7,730.00	13,025.41	7,710.61	107.57	92.42	89.86	-3,761.65	569.45	3,934.44	3,757.30	177.14	22.210		
14,800.00	7,730.00	13,080.12	7,710.54	108.48	93.32	89.86	-3,816.36	570.32	3,932.48	3,753.52	178.97	21.973		
14,900.00	7,730.00	13,139.61	7,710.56	109.43	94.29	89.86	-3,875.85	570.64	3,931.60	3,750.68	180.92	21.731		
15,000.00	7,730.00	13,255.07	7,710.46	110.42	96.19	89.86	-3,991.31	571.45	3,930.49	3,745.90	184.59	21.293		
15,055.29	7,730.00	13,280.04	7,710.71	110.97	96.60	89.86	-4,016.27	571.46	3,930.27	3,744.84	185.43	21.196		
15,100.00	7,730.00	13,317.00	7,711.51	111.43	97.21	89.88	-4,053.22	571.12	3,930.49	3,743.87	186.63	21.061		
15,200.00	7,730.00	13,380.32	7,713.41	112.49	98.24	89.90	-4,116.51	570.19	3,931.46	3,742.76	188.70	20.835		
15,300.00	7,730.00	13,497.36	7,717.17	113.57	100.17	89.96	-4,233.47	568.66	3,932.42	3,739.94	192.48	20.430		
15,400.00	7,730.00	13,659.67	7,721.44	114.68	102.85	90.02	-4,395.73	567.78	3,932.82	3,735.10	197.72	19.891		
15,500.00	7,730.00	13,822.83	7,725.48	115.82	105.58	90.08	-4,558.82	570.33	3,930.78	3,727.78	203.00	19.363		
15,600.00	7,730.00	13,948.26	7,727.53	116.99	107.69	90.11	-4,684.19	573.40	3,928.00	3,720.91	207.09	18.967		
15,700.00	7,730.00	13,979.38	7,727.89	118.19	108.21	90.12	-4,715.30	573.92	3,925.82	3,717.61	208.21	18.856		
15,800.00	7,730.00	15,800.00	7,728.86	119.41	138.88	90.13	-4,816.51	574.46	3,924.95	3,684.18	240.77	16.302		
15,900.00	7,730.00	14,208.00	7,730.10	120.65	112.05	90.15	-4,943.87	577.03	3,922.44	3,706.72	215.72	18.183		
16,000.00	7,730.00	14,264.18	7,730.49	121.91	112.99	90.15	-5,000.05	577.66	3,920.94	3,703.32	217.62	18.018		
16,071.86	7,730.00	14,297.00	7,730.67	122.83	113.55	90.16	-5,032.87	577.79	3,920.51	3,701.79	218.72	17.925		
16,100.00	7,730.00	14,297.00	7,730.67	123.20	113.55	90.16	-5,032.87	577.79	3,920.61	3,701.89	218.72	17.925		
16,200.00	7,730.00	14,354.55	7,730.84	124.50	114.51	90.16	-5,090.41	577.21	3,921.53	3,700.93	220.60	17.776		
16,300.00	7,730.00	14,404.06	7,730.80	125.82	115.33	90.16	-5,139.90	575.73	3,924.08	3,701.89	222.19	17.661		
16,400.00	7,730.00	14,528.16	7,730.64	127.16	117.39	90.16	-5,263.92	571.51	3,927.20	3,700.90	226.30	17.354		
16,500.00	7,730.00	14,722.08	7,730.46	128.52	120.64	90.15	-5,457.82	568.84	3,928.01	3,695.24	232.77	16.875		
16,600.00	7,730.00	14,860.44	7,730.09	129.89	122.98	90.15	-5,596.19	568.83	3,927.72	3,690.34	237.38	16.546		
16,700.00	7,730.00	16,700.00	7,729.22	131.27	154.40	90.13	-5,750.91	571.23	3,925.66	3,654.17	271.49	14.459		
16,800.00	7,730.00	15,080.87	7,728.94	132.67	126.73	90.13	-5,816.58	572.43	3,923.60	3,678.86	244.74	16.031		
16,900.00	7,730.00	15,135.19	7,728.56	134.09	127.65	90.13	-5,870.89	572.70	3,922.77	3,676.20	246.57	15.909		
17,000.00	7,730.00	15,360.48	7,731.16	135.51	131.50	90.16	-6,096.12	575.36	3,921.67	3,667.57	254.09	15.434		
17,100.00	7,730.00	15,432.56	7,732.67	136.95	132.73	90.19	-6,168.15	577.33	3,918.58	3,662.01	256.57	15.273		
17,200.00	7,730.00	15,532.07	7,734.62	138.40	134.44	90.21	-6,267.62	579.69	3,915.89	3,655.93	259.95	15.064		
17,300.00	7,730.00	15,632.06	7,736.65	139.85	136.16	90.24	-6,367.56	582.24	3,913.00	3,649.65	263.35	14.858		
17,400.00	7,730.00	15,697.00	7,738.00	141.32	137.28	90.26	-6,432.47	583.51	3,910.72	3,645.14	265.58	14.725		
17,500.00	7,730.00	15,758.79	7,739.28	142.80	138.34	90.28	-6,494.24	584.14	3,909.38	3,641.69	267.69	14.604		
17,582.00	7,730.00	15,805.09	7,740.23	144.02	139.13	90.30	-6,540.53	584.19	3,909.03	3,639.79	269.25	14.518		
17,600.00	7,730.00	15,814.21	7,740.41	144.28	139.28	90.30	-6,549.65	584.15	3,909.06	3,639.52	269.55	14.502		
17,700.00	7,730.00	15,875.00	7,741.59	145.78	140.32	90.32	-6,610.42	583.31	3,910.01	3,638.45	271.57	14.398		
17,800.00	7,730.00	15,912.20	7,742.30	147.28	140.94	90.33	-6,647.60	582.31	3,912.20	3,639.50	272.71	14.346		
17,900.00	7,730.00	15,964.00	7,743.28	148.79	141.82	90.34	-6,699.35	580.25	3,915.79	3,641.46	274.33	14.274		
18,000.00	7,730.00	16,215.75	7,745.50	150.31	146.09	90.37	-6,950.98	573.42	3,918.45	3,635.30	283.16	13.838		
18,100.00	7,730.00	16,320.42	7,745.95	151.83	147.88	90.38	-7,055.65	573.03	3,918.49	3,631.77	286.72	13.667		
18,200.00	7,730.00	16,396.54	7,746.15	153.37	149.18	90.38	-7,131.76	572.44	3,918.93	3,629.65	289.28	13.547		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,300.00	7,730.00	16,509.99	7,746.49	154.90	151.12	90.39	-7,245.21	571.32	3,919.59	3,626.43	293.16	13.370	
18,400.00	7,730.00	16,606.62	7,746.60	156.45	152.77	90.39	-7,341.83	570.47	3,920.12	3,623.68	296.44	13.224	
18,500.00	7,730.00	16,724.22	7,746.91	158.00	154.79	90.39	-7,459.43	569.83	3,920.32	3,619.85	300.47	13.047	
18,600.00	7,730.00	16,813.89	7,747.18	159.55	156.33	90.40	-7,549.10	569.46	3,920.41	3,616.88	303.52	12.916	
18,700.00	7,730.00	16,901.54	7,747.42	161.11	157.84	90.40	-7,636.74	568.70	3,920.93	3,614.43	306.50	12.793	
18,800.00	7,730.00	17,000.22	7,747.43	162.68	159.53	90.40	-7,735.42	567.74	3,921.57	3,611.70	309.87	12.656	
18,900.00	7,730.00	17,102.18	7,746.95	164.25	161.28	90.39	-7,837.38	566.74	3,922.21	3,608.85	313.35	12.517	
19,000.00	7,730.00	17,200.04	7,745.93	165.83	162.96	90.38	-7,935.23	565.80	3,922.82	3,606.13	316.69	12.387	
19,100.00	7,730.00	17,301.00	7,744.26	167.41	164.70	90.35	-8,036.17	565.09	3,923.17	3,603.03	320.14	12.255	
19,200.00	7,730.00	17,368.09	7,743.43	168.99	165.85	90.34	-8,103.25	564.38	3,923.99	3,601.63	322.37	12.172	
19,300.00	7,730.00	17,489.68	7,743.31	170.58	167.94	90.34	-8,224.82	562.26	3,925.45	3,598.87	326.57	12.020	
19,400.00	7,730.00	17,568.00	7,743.51	172.17	169.28	90.34	-8,303.13	560.98	3,926.72	3,597.51	329.21	11.928	
19,430.54	7,730.00	17,590.96	7,743.58	172.66	169.68	90.34	-8,326.08	560.52	3,927.22	3,597.24	329.98	11.901 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-52.65	786.88	-1,030.94	1,296.96					
100.00	100.00	83.26	83.26	0.13	0.14	-52.64	787.08	-1,031.05	1,297.16	1,296.88	0.27	4,738.027		
200.00	200.00	175.77	175.77	0.49	0.29	-52.63	787.78	-1,031.46	1,297.97	1,297.18	0.79	1,650.910		
300.00	300.00	268.27	268.25	0.85	0.45	-52.61	788.98	-1,032.16	1,299.35	1,298.05	1.30	1,000.601		
400.00	400.00	362.45	362.42	1.21	0.69	-52.57	790.68	-1,033.15	1,301.28	1,299.38	1.90	684.953		
500.00	500.00	458.62	458.55	1.57	1.04	-52.54	792.63	-1,034.41	1,303.55	1,300.95	2.60	500.707		
600.00	599.98	554.73	554.64	1.92	1.38	-117.86	794.75	-1,035.88	1,306.92	1,303.62	3.30	395.807		
700.00	699.84	679.04	678.86	2.28	1.83	-117.90	798.87	-1,035.93	1,311.49	1,307.39	4.10	320.026		
800.00	799.45	819.35	818.56	2.64	2.34	-117.75	808.32	-1,027.40	1,314.82	1,309.85	4.97	264.797		
900.00	898.70	1,001.77	998.37	3.02	3.05	-117.35	824.91	-1,002.06	1,314.92	1,308.88	6.04	217.834		
1,000.00	997.47	1,197.89	1,188.02	3.41	3.97	-116.73	843.63	-956.08	1,308.78	1,301.51	7.27	180.004		
1,100.00	1,095.62	1,278.00	1,264.48	3.84	4.40	-116.52	852.46	-933.88	1,302.49	1,294.40	8.10	160.877		
1,200.00	1,193.06	1,352.07	1,335.19	4.29	4.81	-116.34	861.82	-913.91	1,299.44	1,290.51	8.93	145.460		
1,253.74	1,245.08	1,403.62	1,384.57	4.55	5.09	-116.26	868.71	-900.81	1,299.30	1,289.84	9.46	137.352		
1,300.00	1,289.64	1,457.55	1,436.20	4.78	5.40	-116.20	875.75	-886.93	1,299.34	1,289.37	9.96	130.390		
1,400.00	1,385.27	1,581.32	1,553.94	5.32	6.14	-116.12	891.75	-852.30	1,298.52	1,287.37	11.15	116.421		
1,405.18	1,390.20	1,585.41	1,557.82	5.35	6.16	-116.11	892.30	-851.13	1,298.52	1,287.31	11.21	115.877 ES		
1,500.00	1,479.82	1,655.91	1,624.65	5.90	6.59	-116.09	902.45	-831.12	1,299.99	1,287.85	12.14	107.060		
1,600.00	1,573.17	1,723.00	1,688.53	6.53	7.00	-116.11	912.92	-813.50	1,305.39	1,292.27	13.13	99.440		
1,700.00	1,665.21	1,821.35	1,782.25	7.23	7.60	-116.25	929.28	-788.55	1,313.73	1,299.40	14.33	91.670		
1,800.00	1,755.84	1,941.76	1,896.62	7.98	8.35	-116.56	949.24	-756.63	1,322.71	1,306.99	15.72	84.144		
1,900.00	1,844.94	2,066.67	2,015.58	8.80	9.13	-117.13	967.20	-723.04	1,331.74	1,314.58	17.16	77.616		
2,000.00	1,932.39	2,147.43	2,092.75	9.68	9.62	-117.57	977.55	-701.59	1,341.90	1,323.52	18.38	73.016		
2,100.00	2,018.11	2,256.52	2,197.17	10.63	10.28	-118.34	991.77	-673.40	1,354.64	1,334.86	19.78	68.481		
2,200.00	2,101.97	2,327.37	2,265.09	11.65	10.70	-118.81	1,000.75	-655.39	1,369.50	1,348.50	21.00	65.205		
2,300.00	2,183.88	2,444.06	2,377.32	12.74	11.39	-119.89	1,015.01	-626.79	1,387.08	1,364.60	22.48	61.697		
2,400.00	2,263.74	2,509.49	2,440.39	13.90	11.77	-120.41	1,022.53	-611.09	1,406.87	1,383.17	23.70	59.357		
2,431.61	2,288.54	2,531.73	2,461.89	14.29	11.89	-120.60	1,025.12	-605.99	1,413.95	1,389.85	24.10	58.681		
2,500.00	2,341.97	2,581.58	2,510.16	15.13	12.17	-121.31	1,030.91	-594.97	1,430.13	1,405.19	24.95	57.329		
2,600.00	2,420.08	2,642.56	2,569.41	16.37	12.50	-122.19	1,038.00	-582.43	1,455.73	1,429.64	26.09	55.791		
2,700.00	2,498.20	2,713.40	2,638.60	17.63	12.86	-123.21	1,046.21	-569.65	1,483.98	1,456.73	27.25	54.462		
2,800.00	2,576.32	2,816.02	2,739.29	18.89	13.35	-124.76	1,055.50	-552.19	1,512.90	1,484.39	28.51	53.062		
2,900.00	2,654.43	2,922.96	2,844.19	20.17	13.87	-126.33	1,064.24	-533.34	1,541.85	1,512.09	29.76	51.808		
3,000.00	2,732.55	3,027.09	2,946.04	21.45	14.39	-127.77	1,073.00	-513.50	1,570.52	1,539.53	30.99	50.678		
3,100.00	2,810.67	3,127.20	3,043.40	22.74	14.92	-129.01	1,083.49	-492.73	1,599.24	1,567.01	32.22	49.630		
3,200.00	2,888.78	3,236.08	3,148.96	24.03	15.52	-130.27	1,095.47	-468.92	1,627.78	1,594.28	33.50	48.588		
3,300.00	2,966.90	3,338.56	3,248.11	25.33	16.10	-131.41	1,106.50	-445.44	1,655.86	1,621.13	34.73	47.678		
3,400.00	3,045.02	3,418.25	3,325.11	26.63	16.55	-132.25	1,115.59	-427.03	1,684.52	1,648.70	35.83	47.020		
3,500.00	3,123.13	3,485.34	3,389.99	27.94	16.93	-132.93	1,123.92	-412.14	1,714.73	1,677.89	36.83	46.553		
3,600.00	3,201.25	3,561.41	3,463.64	29.24	17.35	-133.67	1,133.93	-395.98	1,746.40	1,708.52	37.88	46.108		
3,700.00	3,279.37	3,647.40	3,547.03	30.55	17.82	-134.48	1,145.22	-378.27	1,779.03	1,740.07	38.96	45.668		
3,800.00	3,357.49	3,760.89	3,657.26	31.86	18.43	-135.56	1,158.66	-354.81	1,811.67	1,771.51	40.16	45.108		
3,900.00	3,435.60	3,869.07	3,762.35	33.18	19.02	-136.61	1,169.43	-331.54	1,843.45	1,802.16	41.29	44.648		
4,000.00	3,513.72	3,957.83	3,848.53	34.49	19.50	-137.43	1,178.22	-312.20	1,875.39	1,833.10	42.29	44.343		
4,100.00	3,591.84	4,029.66	3,918.31	35.81	19.89	-138.08	1,185.62	-296.85	1,908.20	1,865.01	43.19	44.182		
4,200.00	3,669.95	4,110.55	3,997.02	37.12	20.32	-138.79	1,194.08	-280.26	1,942.15	1,898.03	44.12	44.018		
4,300.00	3,748.07	4,231.14	4,113.95	38.44	20.98	-139.74	1,208.67	-254.62	1,976.16	1,930.85	45.31	43.610		
4,400.00	3,826.19	4,346.98	4,225.62	39.76	21.65	-140.58	1,223.62	-227.76	2,008.73	1,962.23	46.50	43.201		
4,500.00	3,904.30	4,456.85	4,331.71	41.08	22.28	-141.39	1,236.02	-201.98	2,041.11	1,993.51	47.60	42.881		
4,600.00	3,982.42	4,569.71	4,436.69	42.40	23.80	-142.86	1,267.36	-135.25	2,069.31	2,019.84	49.47	41.830		
4,700.00	4,060.54	4,685.00	4,553.45	43.72	24.30	-143.22	1,278.59	-112.91	2,095.33	2,044.85	50.48	41.512		
4,800.00	4,138.66	4,805.30	4,661.43	45.05	24.57	-143.42	1,284.91	-101.01	2,123.27	2,072.01	51.26	41.424		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	4,854.00	4,707.76	46.37	24.89	-143.68	1,292.52	-88.07	2,153.88	2,101.83	52.05	41.382		
5,000.00	4,294.89	4,900.19	4,751.96	47.69	25.17	-143.92	1,299.70	-76.77	2,186.60	2,133.82	52.78	41.429		
5,100.00	4,373.01	4,996.03	4,843.89	49.02	25.75	-144.42	1,314.64	-54.13	2,220.56	2,166.73	53.84	41.244		
5,200.00	4,451.12	5,101.74	4,944.85	50.34	26.40	-144.92	1,331.83	-27.95	2,253.61	2,198.63	54.98	40.987		
5,300.00	4,529.24	5,177.36	5,017.10	51.67	26.86	-145.27	1,344.23	-9.41	2,287.06	2,231.16	55.90	40.912		
5,400.00	4,607.36	5,243.57	5,080.83	52.99	27.25	-145.62	1,353.37	6.03	2,321.53	2,264.83	56.70	40.944		
5,500.00	4,685.47	5,305.85	5,141.05	54.32	27.60	-145.95	1,361.50	19.71	2,357.30	2,299.86	57.44	41.040		
5,600.00	4,763.59	5,375.50	5,208.66	55.64	27.98	-146.34	1,369.78	34.23	2,394.18	2,335.99	58.19	41.144		
5,700.00	4,841.71	5,700.00	5,355.40	56.97	29.75	-147.22	1,385.21	66.11	2,431.06	2,370.87	60.18	40.395		
5,800.00	4,919.83	5,648.66	5,473.30	58.30	29.50	-147.87	1,398.57	95.23	2,465.27	2,404.77	60.50	40.750		
5,900.00	4,997.94	5,715.85	5,537.95	59.62	29.89	-148.18	1,407.60	111.15	2,500.10	2,438.83	61.27	40.805		
6,000.00	5,076.06	5,767.88	5,588.10	60.95	30.19	-148.41	1,414.90	122.93	2,536.13	2,474.21	61.92	40.957		
6,100.00	5,154.18	5,808.72	5,627.69	62.28	30.41	-148.60	1,420.29	131.38	2,574.00	2,511.54	62.46	41.211		
6,200.00	5,232.29	5,858.03	5,675.75	63.61	30.67	-148.83	1,426.32	140.59	2,613.69	2,550.66	63.02	41.473		
6,300.00	5,310.41	6,300.00	5,790.62	64.93	32.94	-149.40	1,439.55	162.07	2,654.02	2,588.57	65.45	40.549		
6,400.00	5,388.53	6,090.72	5,902.56	66.26	31.88	-149.94	1,452.67	185.24	2,692.54	2,627.46	65.08	41.370		
6,500.00	5,466.64	6,240.97	6,048.73	67.59	32.68	-150.66	1,467.39	216.71	2,730.60	2,664.31	66.29	41.194		
6,600.00	5,544.76	6,457.00	6,255.75	68.92	33.99	-151.48	1,495.37	271.07	2,763.82	2,695.79	68.03	40.627		
6,700.00	5,622.88	6,515.95	6,311.44	70.25	34.37	-151.62	1,506.76	286.67	2,797.08	2,728.26	68.82	40.643		
6,800.00	5,701.00	6,568.39	6,361.25	71.58	34.71	-151.73	1,516.90	299.57	2,831.96	2,762.42	69.54	40.724		
6,900.00	5,779.11	6,635.00	6,424.89	72.91	35.12	-151.90	1,528.80	315.23	2,867.97	2,797.62	70.34	40.771		
7,000.00	5,857.23	6,926.99	6,703.29	74.23	36.96	-152.83	1,570.43	392.46	2,901.31	2,828.69	72.62	39.952		
7,100.00	5,935.35	6,992.00	6,764.60	75.56	37.40	-153.01	1,580.59	411.52	2,931.85	2,858.43	73.42	39.932		
7,200.00	6,013.46	7,038.81	6,808.96	76.89	37.70	-153.14	1,587.74	424.67	2,963.67	2,889.59	74.07	40.010		
7,300.00	6,091.58	7,087.56	6,855.53	78.22	38.01	-153.29	1,594.05	437.59	2,997.05	2,922.36	74.70	40.123		
7,400.00	6,169.70	7,177.50	6,942.06	79.55	38.54	-153.66	1,601.71	460.87	3,031.20	2,955.73	75.48	40.161		
7,500.00	6,247.81	7,264.64	7,026.18	80.88	39.02	-154.09	1,604.87	483.37	3,065.57	2,989.44	76.13	40.266		
7,600.00	6,325.93	7,330.45	7,089.84	82.21	39.37	-154.44	1,605.42	500.05	3,100.57	3,023.93	76.64	40.454		
7,700.00	6,404.05	7,797.02	7,519.21	83.54	41.31	-158.72	1,501.03	636.66	3,134.46	3,058.44	76.03	41.229		
7,800.00	6,482.17	7,853.30	7,566.21	84.87	41.50	-159.41	1,476.65	655.71	3,161.24	3,085.12	76.12	41.532		
7,900.00	6,560.28	7,883.00	7,590.33	86.20	41.61	-159.79	1,462.34	665.46	3,189.83	3,113.51	76.32	41.796		
8,000.00	6,638.40	7,919.42	7,619.20	87.53	41.69	-160.29	1,443.30	676.86	3,220.54	3,144.12	76.42	42.142		
8,100.00	6,716.52	7,942.33	7,636.93	88.86	41.75	-160.61	1,430.44	683.60	3,253.61	3,177.05	76.56	42.496		
8,200.00	6,794.63	7,972.00	7,659.34	90.20	41.82	-161.04	1,412.82	691.81	3,289.02	3,212.40	76.61	42.929		
8,300.00	6,872.75	7,972.00	7,659.34	91.53	41.82	-161.04	1,412.82	691.81	3,326.69	3,249.88	76.81	43.312		
8,400.00	6,950.87	7,972.00	7,659.34	92.86	41.82	-161.04	1,412.82	691.81	3,366.91	3,289.96	76.95	43.756		
8,500.00	7,028.98	8,011.73	7,688.31	94.19	41.87	-161.63	1,387.53	701.78	3,408.73	3,331.92	76.81	44.377		
8,600.00	7,107.10	8,025.24	7,697.87	95.52	41.88	-161.84	1,378.50	704.87	3,453.06	3,376.26	76.80	44.965		
8,647.91	7,144.53	8,061.00	7,722.40	96.16	41.93	-162.40	1,353.59	712.33	3,475.54	3,398.93	76.61	45.368		
8,650.00	7,146.16	8,061.00	7,722.40	96.18	41.93	-162.75	1,353.59	712.33	3,476.50	3,399.89	76.61	45.380		
8,700.00	7,185.66	8,061.00	7,722.40	96.84	41.93	-171.54	1,353.59	712.33	3,499.69	3,423.06	76.62	45.674		
8,750.00	7,225.78	8,061.00	7,722.40	97.47	41.93	179.21	1,353.59	712.33	3,523.09	3,446.46	76.64	45.970		
8,800.00	7,266.21	8,061.00	7,722.40	98.08	41.93	169.74	1,353.59	712.33	3,546.54	3,469.89	76.65	46.268		
8,850.00	7,306.63	8,061.00	7,722.40	98.64	41.93	160.30	1,353.59	712.33	3,569.86	3,493.19	76.66	46.566		
8,900.00	7,346.75	8,061.00	7,722.40	99.17	41.93	151.18	1,353.59	712.33	3,592.86	3,516.19	76.67	46.859		
8,950.00	7,386.25	8,061.00	7,722.40	99.64	41.93	142.59	1,353.59	712.33	3,615.39	3,538.71	76.68	47.146		
9,000.00	7,424.84	8,061.00	7,722.40	100.06	41.93	134.68	1,353.59	712.33	3,637.28	3,560.58	76.70	47.422		
9,050.00	7,462.22	8,061.00	7,722.40	100.42	41.93	127.52	1,353.59	712.33	3,658.38	3,581.66	76.72	47.683		
9,100.00	7,498.11	8,061.00	7,722.40	100.74	41.93	121.15	1,353.59	712.33	3,678.54	3,601.79	76.76	47.925		
9,150.00	7,532.24	8,100.71	7,748.70	100.99	41.93	115.46	1,324.57	718.89	3,696.24	3,619.65	76.59	48.261		
9,200.00	7,564.34	8,107.86	7,753.37	101.19	41.93	110.59	1,319.24	719.82	3,713.58	3,636.97	76.61	48.472		
9,250.00	7,594.17	8,150.00	7,780.38	101.34	41.93	106.41	1,287.16	723.83	3,730.59	3,654.13	76.46	48.791		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	8,150.00	7,780.38	101.45	41.93	102.85	1,287.16	723.83	3,744.60	3,668.03	76.57	48.905		
9,350.00	7,646.13	8,150.00	7,780.38	101.50	41.93	99.83	1,287.16	723.83	3,757.09	3,680.38	76.71	48.979		
9,400.00	7,667.87	8,150.00	7,780.38	101.51	41.93	97.31	1,287.16	723.83	3,767.98	3,691.09	76.89	49.008		
9,450.00	7,686.55	8,150.00	7,780.38	101.48	41.93	95.25	1,287.16	723.83	3,777.20	3,700.10	77.10	48.990		
9,500.00	7,702.04	8,150.00	7,780.38	101.42	41.93	93.61	1,287.16	723.83	3,784.70	3,707.34	77.36	48.921		
9,550.00	7,714.20	8,150.00	7,780.38	101.33	41.93	92.38	1,287.16	723.83	3,790.43	3,712.76	77.67	48.802		
9,600.00	7,722.96	8,179.76	7,798.71	101.20	41.89	91.74	1,263.77	725.49	3,793.98	3,716.17	77.81	48.758		
9,650.00	7,728.24	8,193.46	7,806.83	101.06	41.88	91.40	1,252.76	726.09	3,795.66	3,717.56	78.10	48.598		
9,699.97	7,730.00	8,206.85	7,814.58	100.90	41.87	91.43	1,241.85	726.58	3,795.37	3,716.93	78.44	48.388		
9,800.00	7,730.00	8,239.00	7,832.39	100.56	41.84	91.70	1,215.10	727.33	3,793.86	3,714.75	79.10	47.960		
9,831.38	7,730.00	8,248.39	7,837.37	100.46	41.82	91.77	1,207.14	727.46	3,793.78	3,714.45	79.33	47.823		
9,900.00	7,730.00	8,298.97	7,862.21	100.24	41.75	92.15	1,163.09	728.01	3,794.01	3,714.49	79.52	47.714		
10,000.00	7,730.00	8,374.82	7,892.33	99.93	41.64	92.60	1,093.56	728.29	3,795.06	3,715.34	79.72	47.606		
10,100.00	7,730.00	8,445.33	7,910.72	99.64	41.53	92.88	1,025.53	727.71	3,796.88	3,716.97	79.91	47.514		
10,200.00	7,730.00	8,507.00	7,922.68	99.36	41.44	93.06	965.05	726.42	3,799.70	3,719.50	80.20	47.378		
10,300.00	7,730.00	8,646.72	7,939.42	99.09	41.28	93.31	826.42	723.68	3,801.81	3,722.03	79.77	47.657		
10,400.00	7,730.00	8,836.13	7,944.19	98.84	41.25	93.38	637.14	721.15	3,802.95	3,723.68	79.27	47.975		
10,500.00	7,730.00	8,988.36	7,938.33	98.61	41.41	93.29	485.04	721.56	3,802.07	3,722.62	79.44	47.859		
10,600.00	7,730.00	9,041.00	7,936.05	98.39	41.51	93.26	432.45	721.92	3,801.02	3,720.94	80.08	47.466		
10,638.09	7,730.00	9,073.11	7,934.96	98.30	41.57	93.24	400.35	721.94	3,800.83	3,720.50	80.33	47.315		
10,700.00	7,730.00	9,099.23	7,934.30	98.18	41.63	93.23	374.25	721.69	3,801.12	3,720.35	80.76	47.065		
10,800.00	7,730.00	9,187.54	7,932.99	97.99	41.85	93.21	285.97	719.91	3,802.65	3,721.17	81.49	46.665		
10,900.00	7,730.00	9,275.53	7,932.13	97.81	42.14	93.20	198.00	718.57	3,803.82	3,721.49	82.32	46.206		
11,000.00	7,730.00	9,536.88	7,933.02	97.64	43.44	93.21	-63.30	719.34	3,803.11	3,718.93	84.18	45.180		
11,100.00	7,730.00	11,100.00	7,933.06	97.50	59.65	93.21	-165.73	721.62	3,800.56	3,700.35	100.20	37.929		
11,200.00	7,730.00	9,698.29	7,934.16	97.36	44.58	93.23	-224.64	723.08	3,798.06	3,711.38	86.68	43.820		
11,300.00	7,730.00	9,754.00	7,935.47	97.24	45.02	93.25	-280.33	722.97	3,797.57	3,709.79	87.78	43.263		
11,318.86	7,730.00	9,754.00	7,935.47	97.22	45.02	93.25	-280.33	722.97	3,797.53	3,709.63	87.89	43.207		
11,400.00	7,730.00	9,754.00	7,935.47	97.14	45.02	93.25	-280.33	722.97	3,798.39	3,710.03	88.36	42.986		
11,500.00	7,730.00	9,809.32	7,936.49	97.06	45.44	93.27	-335.62	721.47	3,800.98	3,711.48	89.49	42.473		
11,600.00	7,730.00	9,898.44	7,937.27	96.98	46.17	93.28	-424.66	717.73	3,804.84	3,713.85	90.99	41.817		
11,700.00	7,730.00	9,976.07	7,937.36	96.93	46.83	93.27	-502.22	714.72	3,808.45	3,716.03	92.42	41.208		
11,800.00	7,730.00	10,021.00	7,938.48	96.90	47.24	93.29	-547.09	712.51	3,813.27	3,719.76	93.51	40.779		
11,900.00	7,730.00	10,088.17	7,941.35	96.88	47.85	93.33	-614.08	708.51	3,819.19	3,724.27	94.91	40.239		
12,000.00	7,730.00	10,260.99	7,947.34	96.88	49.56	93.41	-786.48	698.55	3,824.88	3,727.03	97.85	39.090		
12,100.00	7,730.00	10,420.11	7,949.94	96.90	51.30	93.45	-945.48	693.12	3,827.67	3,726.83	100.85	37.955		
12,200.00	7,730.00	10,851.92	7,966.37	96.94	56.74	93.70	-1,376.50	699.14	3,825.54	3,715.89	109.65	34.889		
12,300.00	7,730.00	10,884.00	7,966.43	97.00	57.18	93.70	-1,408.55	700.48	3,820.87	3,710.19	110.68	34.523		
12,400.00	7,730.00	11,038.16	7,966.30	97.08	59.31	93.71	-1,562.57	707.00	3,816.31	3,701.91	114.40	33.360		
12,500.00	7,730.00	11,119.88	7,966.18	97.18	60.46	93.71	-1,644.19	710.95	3,811.17	3,694.59	116.57	32.693		
12,600.00	7,730.00	11,152.00	7,966.16	97.31	60.92	93.71	-1,676.29	712.33	3,807.03	3,689.41	117.62	32.368		
12,700.00	7,730.00	11,209.52	7,966.13	97.46	61.73	93.71	-1,733.78	713.96	3,804.15	3,684.91	119.25	31.902		
12,800.00	7,730.00	11,241.00	7,966.09	97.64	62.17	93.71	-1,765.26	714.23	3,803.09	3,682.83	120.26	31.624		
12,803.81	7,730.00	11,241.00	7,966.09	97.65	62.17	93.71	-1,765.26	714.23	3,803.09	3,682.82	120.27	31.621		
12,900.00	7,730.00	11,275.99	7,966.04	97.85	62.65	93.71	-1,800.25	713.92	3,803.77	3,682.43	121.35	31.347		
13,000.00	7,730.00	11,330.00	7,965.95	98.09	63.40	93.71	-1,854.22	711.98	3,806.54	3,683.66	122.87	30.979		
13,100.00	7,730.00	11,644.42	7,965.32	98.35	67.91	93.70	-2,168.47	709.36	3,808.05	3,677.11	130.94	29.083		
13,200.00	7,730.00	11,742.11	7,965.13	98.65	69.37	93.69	-2,266.14	711.29	3,805.71	3,672.01	133.70	28.464		
13,300.00	7,730.00	11,913.10	7,963.11	98.98	71.97	93.67	-2,437.01	717.13	3,801.79	3,663.34	138.45	27.460		
13,400.00	7,730.00	11,984.12	7,961.77	99.34	73.07	93.65	-2,507.95	720.07	3,797.30	3,656.73	140.57	27.013		
13,500.00	7,730.00	12,043.00	7,960.66	99.74	73.97	93.64	-2,566.80	721.48	3,794.26	3,651.90	142.36	26.652		
13,600.00	7,730.00	12,043.00	7,960.66	100.17	73.97	93.64	-2,566.80	721.48	3,792.80	3,650.28	142.52	26.612		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,643.31	7,730.00	12,081.00	7,959.94	100.37	74.55	93.63	-2,604.79	721.65	3,792.45	3,648.82	143.63	26.404		
13,700.00	7,730.00	12,101.06	7,959.57	100.65	74.85	93.62	-2,624.85	721.46	3,792.73	3,648.47	144.26	26.291		
13,800.00	7,730.00	12,258.33	7,956.56	101.16	77.25	93.58	-2,782.07	719.61	3,793.74	3,644.94	148.80	25.496		
13,900.00	7,730.00	12,349.52	7,954.88	101.71	78.66	93.55	-2,873.25	719.60	3,793.30	3,641.78	151.51	25.036		
14,000.00	7,730.00	12,589.84	7,952.83	102.30	82.44	93.52	-3,113.50	723.68	3,791.31	3,632.71	158.60	23.904		
14,100.00	7,730.00	12,662.44	7,952.58	102.93	83.60	93.52	-3,186.06	725.98	3,787.76	3,626.89	160.87	23.546		
14,200.00	7,730.00	12,770.17	7,952.21	103.60	85.33	93.52	-3,293.74	729.29	3,784.32	3,620.14	164.18	23.049		
14,300.00	7,730.00	12,844.00	7,952.09	104.32	86.52	93.52	-3,367.53	731.47	3,781.07	3,614.57	166.50	22.709		
14,400.00	7,730.00	12,883.58	7,952.06	105.07	87.15	93.52	-3,407.11	732.19	3,779.01	3,611.23	167.78	22.524		
14,466.69	7,730.00	12,907.43	7,952.04	105.59	87.53	93.52	-3,430.95	732.26	3,778.58	3,610.05	168.53	22.420		
14,500.00	7,730.00	12,934.00	7,952.01	105.86	87.95	93.52	-3,457.52	732.02	3,778.73	3,609.38	169.36	22.312		
14,600.00	7,730.00	12,957.66	7,951.98	106.70	88.32	93.52	-3,481.17	731.54	3,779.98	3,609.90	170.08	22.224		
14,700.00	7,730.00	12,997.75	7,951.92	107.57	88.95	93.52	-3,521.24	730.23	3,782.89	3,611.61	171.28	22.085		
14,800.00	7,730.00	13,072.97	7,951.77	108.48	90.13	93.51	-3,596.38	726.63	3,787.22	3,613.64	173.58	21.818		
14,900.00	7,730.00	13,207.55	7,951.49	109.43	92.24	93.50	-3,730.84	720.90	3,791.12	3,613.33	177.79	21.323		
15,000.00	7,730.00	13,296.25	7,951.38	110.42	93.65	93.50	-3,819.46	717.34	3,794.77	3,614.22	180.55	21.018		
15,100.00	7,730.00	13,413.52	7,951.02	111.43	95.51	93.49	-3,936.66	712.95	3,798.13	3,613.88	184.25	20.614		
15,200.00	7,730.00	13,519.06	7,950.79	112.49	97.20	93.48	-4,042.11	709.03	3,801.49	3,613.91	187.59	20.265		
15,300.00	7,730.00	13,890.12	7,953.82	113.57	103.25	93.53	-4,413.00	706.89	3,803.71	3,604.17	199.54	19.063		
15,400.00	7,730.00	14,025.92	7,957.15	114.68	105.53	93.58	-4,548.63	712.97	3,798.98	3,595.03	203.95	18.627		
15,500.00	7,730.00	14,092.00	7,958.64	115.82	106.64	93.61	-4,614.64	715.56	3,794.75	3,588.59	206.15	18.407		
15,600.00	7,730.00	14,139.01	7,959.42	116.99	107.43	93.62	-4,661.62	716.85	3,791.58	3,583.86	207.72	18.253		
15,700.00	7,730.00	14,204.61	7,960.51	118.19	108.52	93.64	-4,727.20	718.13	3,789.40	3,579.52	209.88	18.055		
15,800.00	7,730.00	14,270.00	7,961.59	119.41	109.61	93.66	-4,792.58	718.82	3,788.11	3,576.10	212.01	17.868		
15,885.24	7,730.00	14,324.16	7,962.49	120.46	110.51	93.67	-4,846.73	718.92	3,787.76	3,574.00	213.76	17.719		
15,900.00	7,730.00	14,333.47	7,962.64	120.65	110.67	93.67	-4,856.03	718.89	3,787.77	3,573.71	214.06	17.695		
16,000.00	7,730.00	14,392.42	7,963.62	121.91	111.64	93.69	-4,914.98	718.37	3,788.43	3,572.49	215.95	17.543		
16,100.00	7,730.00	14,472.72	7,964.99	123.20	112.97	93.71	-4,995.24	716.68	3,790.24	3,571.69	218.55	17.343		
16,200.00	7,730.00	14,660.99	7,967.79	124.50	116.11	93.75	-5,183.49	716.10	3,789.84	3,564.98	224.86	16.855		
16,300.00	7,730.00	14,747.94	7,969.03	125.82	117.56	93.77	-5,270.43	716.26	3,789.41	3,561.70	227.72	16.641		
16,400.00	7,730.00	14,843.35	7,970.39	127.16	119.16	93.79	-5,365.83	716.09	3,789.35	3,558.48	230.87	16.413		
16,500.00	7,730.00	14,950.26	7,972.02	128.52	120.95	93.81	-5,472.73	716.15	3,789.05	3,554.62	234.43	16.163		
16,600.00	7,730.00	15,089.58	7,973.96	129.89	123.30	93.84	-5,612.03	716.96	3,788.22	3,549.12	239.10	15.844		
16,700.00	7,730.00	15,149.03	7,973.78	131.27	124.30	93.84	-5,671.48	717.22	3,787.42	3,546.39	241.03	15.713		
16,723.96	7,730.00	15,163.00	7,973.54	131.61	124.54	93.84	-5,685.45	717.18	3,787.39	3,545.90	241.49	15.684		
16,800.00	7,730.00	15,205.53	7,972.76	132.67	125.25	93.83	-5,727.96	716.80	3,787.72	3,544.88	242.84	15.598		
16,900.00	7,730.00	15,267.11	7,971.76	134.09	126.28	93.81	-5,789.53	715.60	3,789.18	3,544.38	244.80	15.479		
17,000.00	7,730.00	15,358.63	7,969.54	135.51	127.81	93.77	-5,880.99	713.30	3,791.18	3,543.38	247.80	15.299		
17,100.00	7,730.00	15,444.05	7,968.12	136.95	129.24	93.75	-5,966.37	710.98	3,793.46	3,542.86	250.60	15.138		
17,200.00	7,730.00	15,519.00	7,967.81	138.40	130.49	93.74	-6,041.27	708.51	3,796.36	3,543.35	253.01	15.005		
17,300.00	7,730.00	16,232.00	7,979.80	139.85	142.71	93.96	-6,750.36	738.58	3,794.47	3,518.06	276.41	13.728		
17,400.00	7,730.00	16,268.05	7,982.97	141.32	143.34	94.01	-6,785.99	743.02	3,782.42	3,504.44	277.98	13.607		
17,500.00	7,730.00	16,321.00	7,988.08	142.80	144.27	94.10	-6,838.41	748.48	3,772.14	3,492.13	280.01	13.471		
17,600.00	7,730.00	16,321.00	7,988.08	144.28	144.27	94.10	-6,838.41	748.48	3,763.46	3,483.15	280.32	13.426		
17,700.00	7,730.00	16,356.82	7,991.49	145.78	144.89	94.15	-6,873.96	751.18	3,756.71	3,475.05	281.66	13.338		
17,800.00	7,730.00	16,410.00	7,995.72	147.28	145.82	94.22	-6,926.94	753.09	3,752.57	3,469.06	283.51	13.236		
17,900.00	7,730.00	16,410.00	7,995.72	148.79	145.82	94.22	-6,926.94	753.09	3,749.50	3,466.03	283.47	13.227		
17,994.72	7,730.00	16,439.46	7,997.52	150.23	146.32	94.25	-6,956.34	753.27	3,748.78	3,464.43	284.35	13.184		
18,000.00	7,730.00	16,441.74	7,997.64	150.31	146.36	94.25	-6,958.62	753.27	3,748.78	3,464.36	284.42	13.180		
18,100.00	7,730.00	16,499.00	7,999.54	151.83	147.33	94.28	-7,015.84	752.60	3,749.68	3,463.43	286.24	13.100		
18,200.00	7,730.00	16,606.19	8,001.18	153.37	149.15	94.30	-7,122.99	750.72	3,751.23	3,461.34	289.89	12.940		
18,300.00	7,730.00	16,713.23	8,002.72	154.90	150.97	94.32	-7,230.02	749.66	3,751.97	3,458.43	293.54	12.782		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,400.00	7,730.00	16,814.40	8,004.14	156.45	152.70	94.34	-7,331.17	748.35	3,753.04	3,456.07	296.98	12.638	
18,500.00	7,730.00	16,935.94	8,005.78	158.00	154.77	94.37	-7,452.70	747.57	3,753.42	3,452.26	301.17	12.463	
18,600.00	7,730.00	17,025.85	8,006.99	159.55	156.31	94.38	-7,542.60	747.04	3,753.78	3,449.58	304.19	12.340	
18,700.00	7,730.00	17,144.98	8,008.63	161.11	158.35	94.41	-7,661.72	746.69	3,753.80	3,445.49	308.30	12.176	
18,700.31	7,730.00	17,145.17	8,008.64	161.12	158.35	94.41	-7,661.91	746.69	3,753.80	3,445.49	308.31	12.175	
18,800.00	7,730.00	17,212.00	8,009.58	162.68	159.50	94.42	-7,728.73	746.15	3,754.32	3,443.84	310.49	12.092	
18,900.00	7,730.00	17,250.97	8,009.98	164.25	160.16	94.43	-7,767.69	745.34	3,756.07	3,444.49	311.58	12.055	
19,000.00	7,730.00	17,301.00	8,010.05	165.83	161.01	94.43	-7,817.68	743.49	3,759.33	3,446.30	313.03	12.010	
19,100.00	7,730.00	17,339.60	8,009.83	167.41	161.66	94.42	-7,856.23	741.46	3,764.05	3,450.08	313.97	11.989	
19,200.00	7,730.00	17,390.00	8,009.27	168.99	162.50	94.41	-7,906.51	738.09	3,770.23	3,454.91	315.32	11.957	
19,300.00	7,730.00	17,422.38	8,008.80	170.58	163.04	94.40	-7,938.77	735.41	3,777.94	3,462.07	315.86	11.961	
19,400.00	7,730.00	17,479.00	8,007.94	172.17	163.97	94.38	-7,995.08	729.56	3,787.47	3,470.10	317.37	11.934 SF	
19,430.54	7,730.00	17,479.00	8,007.94	172.66	163.97	94.38	-7,995.08	729.56	3,790.54	3,473.47	317.07	11.955	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-52.39	786.52	-1,020.86	1,288.74					
100.00	100.00	90.36	90.36	0.13	0.15	-52.38	786.67	-1,020.77	1,288.73	1,288.44	0.28	4,524.827		
200.00	200.00	189.65	189.65	0.49	0.32	-52.35	787.19	-1,020.46	1,288.81	1,288.00	0.81	1,594.011		
300.00	300.00	288.94	288.93	0.85	0.48	-52.31	788.08	-1,019.94	1,288.94	1,287.61	1.33	967.500		
400.00	400.00	387.10	387.08	1.21	0.78	-52.25	789.29	-1,019.28	1,289.16	1,287.17	1.99	648.800		
500.00	500.00	484.79	484.76	1.57	1.13	-52.18	790.70	-1,018.68	1,289.55	1,286.86	2.70	478.355		
600.00	599.98	582.48	582.43	1.92	1.48	-117.50	792.32	-1,018.12	1,290.93	1,287.53	3.40	379.659		
700.00	699.84	776.31	775.89	2.28	2.18	-117.52	795.82	-1,008.11	1,290.37	1,285.92	4.45	290.174		
800.00	799.45	939.53	937.11	2.64	2.82	-117.28	802.14	-983.82	1,284.78	1,279.36	5.42	237.107		
900.00	898.70	1,045.15	1,040.21	3.02	3.30	-117.02	810.11	-962.36	1,278.97	1,272.74	6.23	205.230		
1,000.00	997.47	1,148.10	1,139.40	3.41	3.81	-116.64	821.39	-937.29	1,273.65	1,266.55	7.10	179.394		
1,100.00	1,095.62	1,231.82	1,219.28	3.84	4.26	-116.27	833.77	-915.49	1,271.01	1,263.06	7.94	160.005		
1,200.00	1,193.06	1,339.52	1,321.20	4.29	4.89	-115.76	852.48	-886.17	1,270.68	1,261.70	8.98	141.424		
1,233.58	1,225.59	1,383.87	1,362.72	4.45	5.15	-115.53	860.79	-872.96	1,270.53	1,261.14	9.40	135.217 CC, ES		
1,300.00	1,289.64	1,426.60	1,402.76	4.78	5.43	-115.33	869.08	-860.55	1,271.31	1,261.33	9.98	127.324		
1,400.00	1,385.27	1,524.03	1,494.03	5.32	6.05	-114.94	888.73	-832.71	1,274.78	1,263.67	11.11	114.786		
1,500.00	1,479.82	1,674.80	1,634.30	5.90	7.08	-114.52	916.93	-785.23	1,276.08	1,263.45	12.64	100.993		
1,600.00	1,573.17	1,751.79	1,705.85	6.53	7.62	-114.38	931.60	-760.89	1,279.40	1,265.64	13.76	92.984		
1,700.00	1,665.21	1,872.55	1,818.25	7.23	8.47	-114.34	954.58	-723.22	1,284.63	1,269.42	15.21	84.433		
1,800.00	1,755.84	1,975.62	1,914.45	7.98	9.20	-114.50	971.90	-690.50	1,289.35	1,272.75	16.59	77.707		
1,900.00	1,844.94	2,086.22	2,018.31	8.80	9.96	-114.90	988.98	-656.55	1,295.54	1,277.51	18.04	71.824		
2,000.00	1,932.39	2,192.01	2,118.12	9.68	10.67	-115.50	1,002.92	-624.38	1,302.10	1,282.63	19.47	66.888		
2,100.00	2,018.11	2,268.75	2,190.87	10.63	11.18	-115.99	1,012.93	-602.12	1,311.40	1,290.65	20.75	63.195		
2,200.00	2,101.97	2,371.07	2,288.40	11.65	11.83	-116.86	1,025.26	-573.75	1,323.02	1,300.83	22.19	59.632		
2,300.00	2,183.88	2,462.32	2,375.65	12.74	12.39	-117.73	1,035.20	-548.94	1,336.46	1,312.89	23.57	56.703		
2,400.00	2,263.74	2,538.08	2,448.11	13.90	12.86	-118.43	1,044.19	-528.76	1,353.10	1,328.21	24.89	54.360		
2,431.61	2,288.54	2,561.80	2,470.81	14.29	13.01	-118.65	1,047.21	-522.54	1,359.11	1,333.79	25.31	53.693		
2,500.00	2,341.97	2,612.97	2,519.77	15.13	13.32	-119.34	1,054.04	-509.35	1,372.94	1,346.72	26.22	52.364		
2,600.00	2,420.08	2,688.74	2,592.30	16.37	13.79	-120.34	1,064.90	-490.32	1,394.76	1,367.22	27.54	50.653		
2,700.00	2,498.20	2,786.37	2,685.77	17.63	14.39	-121.58	1,079.40	-466.11	1,417.76	1,388.78	28.97	48.936		
2,800.00	2,576.32	2,920.20	2,813.46	18.89	15.23	-123.22	1,098.04	-430.69	1,439.48	1,408.86	30.61	47.024		
2,900.00	2,654.43	3,024.69	2,912.83	20.17	15.91	-124.45	1,111.77	-401.44	1,460.20	1,428.14	32.05	45.554		
3,000.00	2,732.55	3,145.70	3,027.68	21.45	16.70	-125.83	1,126.86	-366.43	1,480.40	1,446.83	33.57	44.103		
3,100.00	2,810.67	3,236.14	3,112.78	22.74	17.33	-126.76	1,139.36	-338.51	1,500.01	1,465.08	34.93	42.943		
3,200.00	2,888.78	3,293.54	3,166.68	24.03	17.73	-127.30	1,148.78	-321.17	1,521.66	1,485.56	36.09	42.162		
3,300.00	2,966.90	3,411.06	3,277.05	25.33	18.55	-128.35	1,168.92	-286.22	1,544.43	1,506.79	37.63	41.037		
3,400.00	3,045.02	3,508.66	3,368.60	26.63	19.24	-129.20	1,184.83	-256.34	1,566.35	1,527.33	39.02	40.138		
3,500.00	3,123.13	3,589.15	3,443.76	27.94	19.81	-129.85	1,199.21	-231.39	1,588.86	1,548.56	40.31	39.421		
3,600.00	3,201.25	3,647.72	3,498.77	29.24	20.22	-130.32	1,209.80	-214.29	1,613.32	1,571.92	41.39	38.974		
3,700.00	3,279.37	3,748.62	3,594.13	30.55	20.90	-131.15	1,227.38	-186.39	1,639.26	1,596.52	42.74	38.352		
3,800.00	3,357.49	3,841.42	3,681.86	31.86	21.52	-131.91	1,242.93	-160.47	1,664.98	1,620.98	44.00	37.838		
3,900.00	3,435.60	3,905.74	3,742.88	33.18	21.94	-132.44	1,253.60	-143.16	1,691.89	1,646.86	45.03	37.574		
4,000.00	3,513.72	3,971.60	3,805.61	34.49	22.36	-132.97	1,264.85	-126.53	1,720.70	1,674.67	46.03	37.380		
4,100.00	3,591.84	4,050.63	3,881.21	35.81	22.85	-133.62	1,277.96	-107.61	1,750.86	1,703.77	47.09	37.178		
4,200.00	3,669.95	4,187.88	4,012.98	37.12	23.67	-134.81	1,297.35	-74.52	1,780.48	1,731.99	48.49	36.717		
4,300.00	3,748.07	4,300.00	4,131.04	38.44	24.36	-135.87	1,312.50	-42.32	1,808.01	1,758.33	49.68	36.391		
4,400.00	3,826.19	4,377.07	4,194.17	39.76	24.83	-136.44	1,320.11	-25.10	1,835.94	1,785.33	50.61	36.276		
4,500.00	3,904.30	4,469.15	4,283.01	41.08	25.37	-137.26	1,329.92	-2.99	1,865.79	1,814.21	51.58	36.170		
4,600.00	3,982.42	4,576.16	4,385.71	42.40	26.01	-138.13	1,342.60	24.26	1,894.93	1,842.25	52.67	35.976		
4,700.00	4,060.54	4,636.33	4,443.32	43.72	26.38	-138.57	1,350.81	39.56	1,924.86	1,871.38	53.48	35.991		
4,800.00	4,138.66	4,716.04	4,520.11	45.05	26.85	-139.17	1,361.14	58.28	1,956.59	1,902.20	54.39	35.976		
4,900.00	4,216.77	4,892.97	4,689.19	46.37	27.95	-140.43	1,383.43	105.25	1,985.03	1,929.12	55.91	35.505		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,940.00	4,734.27	47.69	28.24	-140.79	1,388.44	117.67	2,014.25	1,957.66	56.59	35.593		
5,100.00	4,373.01	4,993.93	4,786.24	49.02	28.56	-141.19	1,394.33	130.82	2,045.67	1,988.40	57.27	35.721		
5,200.00	4,451.12	5,096.42	4,885.00	50.34	29.16	-141.87	1,407.84	154.61	2,078.85	2,020.56	58.29	35.667		
5,300.00	4,529.24	5,186.19	4,970.82	51.67	29.71	-142.38	1,421.72	176.98	2,110.93	2,051.65	59.27	35.614		
5,400.00	4,607.36	5,240.52	5,022.89	52.99	30.03	-142.69	1,430.23	189.95	2,144.25	2,084.27	59.97	35.753		
5,500.00	4,685.47	5,297.00	5,077.44	54.32	30.36	-143.02	1,438.55	201.99	2,179.73	2,119.08	60.65	35.940		
5,600.00	4,763.59	5,426.24	5,202.53	55.64	31.08	-143.81	1,455.58	229.64	2,215.38	2,153.55	61.83	35.833		
5,700.00	4,841.71	5,594.51	5,364.36	56.97	32.08	-144.79	1,476.84	270.44	2,248.30	2,185.04	63.25	35.546		
5,800.00	4,919.83	5,653.00	5,420.38	58.30	32.44	-145.11	1,484.74	285.32	2,280.57	2,216.62	63.95	35.661		
5,900.00	4,997.94	5,697.13	5,462.85	59.62	32.69	-145.35	1,490.62	295.77	2,314.70	2,250.19	64.51	35.881		
6,000.00	5,076.06	5,742.00	5,506.36	60.95	32.94	-145.60	1,496.27	305.15	2,351.16	2,286.13	65.03	36.153		
6,100.00	5,154.18	5,803.73	5,566.54	62.28	33.26	-145.97	1,503.16	317.00	2,389.30	2,323.68	65.63	36.408		
6,200.00	5,232.29	5,934.40	5,693.97	63.61	33.93	-146.74	1,516.85	342.44	2,427.55	2,360.85	66.70	36.394		
6,300.00	5,310.41	6,300.00	5,842.98	64.93	36.07	-147.48	1,537.77	377.12	2,463.09	2,394.01	69.08	35.653		
6,400.00	5,388.53	6,165.72	5,916.73	66.26	35.28	-147.81	1,549.45	395.37	2,497.99	2,429.10	68.88	36.263		
6,500.00	5,466.64	6,233.33	5,982.02	67.59	35.67	-148.11	1,558.64	410.35	2,534.24	2,464.65	69.59	36.417		
6,600.00	5,544.76	6,301.21	6,047.57	68.92	36.05	-148.41	1,568.44	424.99	2,571.28	2,500.98	70.29	36.579		
6,700.00	5,622.88	6,366.00	6,110.40	70.25	36.40	-148.69	1,577.34	438.07	2,609.58	2,538.62	70.95	36.780		
6,800.00	5,701.00	6,444.03	6,186.35	71.58	36.81	-149.05	1,586.92	453.19	2,648.70	2,577.02	71.67	36.955		
6,900.00	5,779.11	6,759.11	6,490.46	72.91	38.62	-150.44	1,624.10	526.21	2,685.18	2,611.12	74.06	36.257		
7,000.00	5,857.23	6,843.69	6,507.72	74.23	39.17	-150.74	1,636.20	549.96	2,716.46	2,641.53	74.93	36.253		
7,100.00	5,935.35	6,902.00	6,626.37	75.56	39.54	-150.95	1,644.66	565.19	2,749.48	2,673.87	75.61	36.363		
7,200.00	6,013.46	6,963.90	6,685.71	76.89	39.92	-151.17	1,653.17	580.62	2,783.72	2,707.43	76.29	36.491		
7,300.00	6,091.58	7,021.69	6,741.24	78.22	40.26	-151.39	1,660.42	594.88	2,818.56	2,741.67	76.90	36.653		
7,400.00	6,169.70	7,080.00	6,797.65	79.55	40.60	-151.62	1,667.11	608.04	2,855.17	2,777.69	77.48	36.850		
7,500.00	6,247.81	7,105.36	6,822.30	80.88	40.73	-151.73	1,669.84	613.33	2,893.24	2,815.45	77.79	37.193		
7,600.00	6,325.93	7,475.28	7,173.56	82.21	42.26	-154.69	1,630.97	700.83	2,929.78	2,851.48	78.30	37.416		
7,700.00	6,404.05	7,525.00	7,218.49	83.54	42.41	-155.29	1,613.77	713.37	2,962.66	2,884.36	78.30	37.840		
7,800.00	6,482.17	7,525.00	7,218.49	84.87	42.41	-155.29	1,613.77	713.37	2,997.11	2,918.60	78.51	38.175		
7,900.00	6,560.28	7,525.00	7,218.49	86.20	42.41	-155.29	1,613.77	713.37	3,034.47	2,955.81	78.66	38.579		
8,000.00	6,638.40	7,574.57	7,263.50	87.53	42.51	-155.89	1,596.09	724.24	3,073.55	2,995.00	78.55	39.131		
8,100.00	6,716.52	7,614.00	7,299.06	88.86	42.59	-156.39	1,580.87	731.89	3,115.00	3,036.56	78.44	39.711		
8,200.00	6,794.63	7,671.56	7,350.43	90.20	42.68	-157.13	1,557.22	742.60	3,158.11	3,079.88	78.23	40.370		
8,300.00	6,872.75	7,727.12	7,399.26	91.53	42.77	-157.86	1,532.93	753.18	3,202.04	3,124.04	78.00	41.051		
8,400.00	6,950.87	7,758.24	7,426.09	92.86	42.81	-158.28	1,518.20	758.79	3,247.73	3,169.89	77.84	41.722		
8,500.00	7,028.98	7,792.00	7,454.71	94.19	42.85	-158.75	1,501.22	764.50	3,295.25	3,217.61	77.64	42.443		
8,600.00	7,107.10	8,600.00	7,577.56	95.52	44.07	-161.13	1,407.67	793.77	3,342.83	3,265.39	77.44	43.169		
8,647.91	7,144.53	8,647.91	7,596.66	96.16	44.18	-161.53	1,391.53	798.83	3,365.98	3,288.66	77.32	43.532		
8,650.00	7,146.16	8,650.00	7,597.50	96.18	44.18	-161.91	1,390.82	799.06	3,367.00	3,289.68	77.32	43.548		
8,700.00	7,185.66	7,970.00	7,592.99	96.84	43.00	-170.81	1,394.63	797.86	3,391.61	3,315.03	76.58	44.288		
8,750.00	7,225.78	7,970.00	7,592.99	97.47	43.00	179.72	1,394.63	797.86	3,416.48	3,339.93	76.55	44.628		
8,800.00	7,266.21	8,006.92	7,618.75	98.08	43.01	169.57	1,369.22	805.10	3,440.75	3,364.42	76.33	45.075		
8,850.00	7,306.63	8,016.54	7,625.09	98.64	43.01	159.87	1,362.20	806.84	3,465.18	3,388.92	76.26	45.439		
8,900.00	7,346.75	8,026.54	7,631.51	99.17	43.02	150.50	1,354.73	808.60	3,489.18	3,412.99	76.18	45.799		
8,950.00	7,386.25	8,059.00	7,651.09	99.64	43.03	141.49	1,329.38	813.83	3,512.83	3,436.86	75.96	46.243		
9,000.00	7,424.84	8,059.00	7,651.09	100.06	43.03	133.53	1,329.38	813.83	3,535.23	3,459.28	75.96	46.541		
9,050.00	7,462.22	8,059.00	7,651.09	100.42	43.03	126.34	1,329.38	813.83	3,556.80	3,480.83	75.96	46.822		
9,100.00	7,498.11	8,059.00	7,651.09	100.74	43.03	119.93	1,329.38	813.83	3,577.37	3,501.38	75.98	47.082		
9,150.00	7,532.24	8,086.50	7,666.24	100.99	43.00	114.18	1,306.78	817.76	3,596.47	3,520.65	75.82	47.435		
9,200.00	7,564.34	8,100.96	7,673.71	101.19	42.99	109.24	1,294.55	819.68	3,614.20	3,538.44	75.76	47.704		
9,250.00	7,594.17	8,115.63	7,680.94	101.34	42.98	104.99	1,281.92	821.51	3,630.36	3,554.64	75.72	47.943		
9,300.00	7,621.50	8,148.00	7,695.60	101.45	42.97	101.34	1,253.29	825.16	3,644.97	3,569.42	75.55	48.245		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	8,148.00	7,695.60	101.50	42.97	98.34	1,253.29	825.16	3,657.52	3,581.83	75.68	48.326		
9,400.00	7,667.87	8,172.61	7,705.79	101.51	42.93	95.83	1,231.03	827.67	3,668.25	3,592.62	75.64	48.497		
9,450.00	7,686.55	8,202.39	7,717.42	101.48	42.90	93.84	1,203.77	830.59	3,676.86	3,601.28	75.58	48.650		
9,500.00	7,702.04	8,237.00	7,729.94	101.42	42.87	92.34	1,171.67	833.81	3,683.27	3,607.77	75.50	48.785		
9,550.00	7,714.20	8,258.57	7,737.28	101.33	42.84	91.27	1,151.48	835.71	3,687.45	3,611.86	75.59	48.782		
9,600.00	7,722.96	8,284.04	7,745.63	101.20	42.81	90.64	1,127.51	837.80	3,689.43	3,613.75	75.69	48.747		
9,650.00	7,728.24	8,309.32	7,753.57	101.06	42.78	90.43	1,103.59	839.73	3,689.21	3,613.39	75.82	48.658		
9,699.97	7,730.00	8,327.00	7,758.92	100.90	42.76	90.59	1,086.78	840.98	3,686.81	3,610.74	76.06	48.472		
9,800.00	7,730.00	8,366.99	7,770.12	100.56	42.71	90.77	1,048.46	843.35	3,680.74	3,604.17	76.58	48.066		
9,900.00	7,730.00	8,416.00	7,781.93	100.24	42.66	90.95	1,000.94	845.24	3,676.55	3,599.54	77.01	47.741		
10,000.00	7,730.00	8,416.00	7,781.93	99.93	42.66	90.95	1,000.94	845.24	3,674.18	3,596.23	77.94	47.139		
10,076.37	7,730.00	8,455.95	7,789.59	99.70	42.60	91.07	961.74	845.77	3,673.46	3,595.18	78.28	46.925		
10,100.00	7,730.00	8,462.82	7,790.69	99.64	42.59	91.09	954.96	845.75	3,673.51	3,595.08	78.44	46.834		
10,200.00	7,730.00	8,505.00	7,796.00	99.36	42.54	91.17	913.14	844.94	3,675.02	3,596.05	78.97	46.538		
10,300.00	7,730.00	8,772.00	7,803.92	99.09	42.42	91.29	646.39	845.55	3,674.05	3,596.41	77.65	47.317		
10,400.00	7,730.00	8,832.72	7,804.83	98.84	42.46	91.31	585.69	847.05	3,671.60	3,593.41	78.19	46.959		
10,480.74	7,730.00	8,861.00	7,804.98	98.65	42.49	91.31	557.42	847.18	3,671.00	3,592.26	78.74	46.625		
10,500.00	7,730.00	8,861.00	7,804.98	98.61	42.49	91.31	557.42	847.18	3,671.05	3,592.15	78.89	46.531		
10,600.00	7,730.00	8,910.00	7,804.81	98.39	42.52	91.31	508.42	846.58	3,672.10	3,592.55	79.55	46.162		
10,700.00	7,730.00	8,950.00	7,804.26	98.18	42.57	91.30	468.45	845.33	3,674.84	3,594.60	80.25	45.794		
10,800.00	7,730.00	9,154.39	7,803.50	97.99	42.95	91.29	264.16	839.45	3,677.79	3,597.05	80.74	45.551		
10,900.00	7,730.00	9,267.54	7,802.52	97.81	43.33	91.27	151.02	838.16	3,678.60	3,596.94	81.67	45.045		
11,000.00	7,730.00	9,405.49	7,803.32	97.64	43.96	91.28	13.08	838.09	3,678.29	3,595.38	82.91	44.363		
11,100.00	7,730.00	9,513.94	7,803.17	97.50	44.58	91.28	-95.37	838.73	3,677.35	3,593.12	84.23	43.661		
11,200.00	7,730.00	9,601.08	7,802.40	97.36	45.15	91.27	-182.50	838.99	3,676.68	3,591.18	85.50	43.002		
11,300.00	7,730.00	9,664.00	7,801.42	97.24	45.61	91.25	-245.42	839.14	3,676.27	3,589.64	86.63	42.436		
11,308.36	7,730.00	9,685.46	7,800.93	97.23	45.77	91.25	-266.88	839.12	3,676.18	3,589.30	86.88	42.315		
11,400.00	7,730.00	9,725.17	7,799.50	97.14	46.07	91.22	-306.56	838.64	3,676.91	3,589.13	87.78	41.887		
11,500.00	7,730.00	10,020.02	7,797.88	97.06	48.73	91.20	-601.14	840.46	3,676.28	3,584.42	91.85	40.023		
11,600.00	7,730.00	10,099.52	7,800.66	96.98	49.57	91.24	-680.55	843.03	3,672.77	3,579.25	93.52	39.272		
11,700.00	7,730.00	10,216.82	7,804.41	96.93	50.86	91.30	-797.73	846.75	3,669.34	3,573.47	95.87	38.274		
11,800.00	7,730.00	10,316.79	7,807.40	96.90	52.02	91.35	-897.59	850.30	3,665.52	3,567.50	98.02	37.394		
11,900.00	7,730.00	11,900.00	7,809.64	96.88	73.10	91.39	-1,029.74	855.30	3,661.46	3,540.78	120.68	30.341		
12,000.00	7,730.00	10,513.80	7,810.82	96.88	54.42	91.41	-1,094.41	858.18	3,656.95	3,554.48	102.47	35.688		
12,100.00	7,730.00	10,554.00	7,811.05	96.90	54.92	91.41	-1,134.59	859.12	3,654.20	3,550.60	103.60	35.271		
12,200.00	7,730.00	10,614.24	7,810.87	96.94	55.67	91.41	-1,194.83	859.70	3,652.84	3,547.70	105.14	34.743		
12,300.00	7,730.00	10,684.48	7,810.29	97.00	56.56	91.40	-1,265.07	859.77	3,652.36	3,545.48	106.88	34.171		
12,311.43	7,730.00	10,692.78	7,810.20	97.00	56.66	91.40	-1,273.37	859.75	3,652.36	3,545.27	107.09	34.105		
12,400.00	7,730.00	10,769.15	7,809.27	97.08	57.64	91.38	-1,349.73	859.25	3,652.60	3,543.64	108.95	33.525		
12,500.00	7,730.00	10,876.96	7,807.38	97.18	59.04	91.36	-1,457.52	858.59	3,652.83	3,541.27	111.56	32.744		
12,600.00	7,730.00	10,976.00	7,803.77	97.31	60.36	91.30	-1,556.49	858.07	3,652.92	3,538.92	114.01	32.041		
12,700.00	7,730.00	11,083.79	7,796.99	97.46	61.83	91.19	-1,664.07	857.52	3,652.97	3,536.27	116.69	31.304		
12,788.78	7,730.00	11,170.67	7,790.79	97.62	63.03	91.09	-1,750.72	857.19	3,652.87	3,533.96	118.91	30.720		
12,800.00	7,730.00	11,179.20	7,790.16	97.64	63.14	91.08	-1,759.23	857.15	3,652.88	3,533.75	119.13	30.662		
12,900.00	7,730.00	11,261.03	7,783.95	97.85	64.29	90.99	-1,840.82	856.43	3,653.27	3,531.99	121.28	30.122		
13,000.00	7,730.00	11,365.38	7,775.70	98.09	65.76	90.86	-1,944.83	855.42	3,653.77	3,529.77	124.00	29.466		
13,100.00	7,730.00	11,476.83	7,766.03	98.35	67.35	90.71	-2,055.86	854.48	3,654.17	3,527.24	126.94	28.788		
13,200.00	7,730.00	13,200.00	7,753.59	98.65	93.23	90.51	-2,175.06	854.24	3,653.89	3,499.06	154.83	23.600		
13,249.42	7,730.00	11,633.13	7,750.21	98.81	69.63	90.46	-2,211.35	854.23	3,653.73	3,522.60	131.13	27.864		
13,300.00	7,730.00	11,663.72	7,748.16	98.98	70.08	90.43	-2,241.87	854.03	3,653.87	3,521.87	131.99	27.682		
13,400.00	7,730.00	11,806.30	7,743.42	99.34	72.19	90.35	-2,384.36	853.82	3,653.57	3,517.60	135.97	26.871		
13,462.29	7,730.00	11,847.58	7,743.04	99.58	72.80	90.35	-2,425.65	853.81	3,653.37	3,516.19	137.17	26.633		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,500.00	7,730.00	11,876.08	7,743.09	99.74	73.23	90.35	-2,454.15	853.68	3,653.41	3,515.40	138.01	26.473		
13,600.00	7,730.00	11,966.39	7,744.59	100.17	74.58	90.37	-2,544.44	852.99	3,653.83	3,513.19	140.65	25.978		
13,700.00	7,730.00	12,145.14	7,748.33	100.65	77.30	90.43	-2,723.14	853.50	3,653.22	3,507.32	145.90	25.039		
13,800.00	7,730.00	12,215.00	7,750.92	101.16	78.37	90.47	-2,792.95	854.03	3,652.10	3,504.07	148.03	24.671		
13,900.00	7,730.00	12,347.72	7,756.86	101.71	80.43	90.56	-2,925.53	855.22	3,650.93	3,498.87	152.06	24.009		
14,000.00	7,730.00	12,485.42	7,762.62	102.30	82.59	90.65	-3,063.08	857.85	3,648.75	3,492.46	156.29	23.346		
14,100.00	7,730.00	12,553.00	7,765.66	102.93	83.66	90.70	-3,130.58	859.21	3,646.44	3,488.03	158.41	23.019		
14,200.00	7,730.00	14,200.00	7,771.21	103.60	110.15	90.79	-3,238.68	861.13	3,644.39	3,457.34	187.05	19.484		
14,300.00	7,730.00	12,725.36	7,774.53	104.32	86.40	90.84	-3,302.68	862.14	3,642.63	3,478.82	163.81	22.237		
14,400.00	7,730.00	12,823.52	7,780.13	105.07	87.96	90.93	-3,400.68	862.69	3,641.80	3,474.90	166.90	21.820		
14,500.00	7,730.00	12,951.14	7,787.26	105.86	90.00	91.04	-3,528.09	864.62	3,639.96	3,469.00	170.96	21.291		
14,600.00	7,730.00	13,017.00	7,791.32	106.70	91.06	91.11	-3,593.82	865.14	3,638.83	3,465.78	173.05	21.027		
14,700.00	7,730.00	13,147.08	7,799.06	107.57	93.15	91.23	-3,723.67	866.12	3,637.95	3,460.72	177.23	20.526		
14,800.00	7,730.00	13,233.28	7,803.66	108.48	94.55	91.30	-3,809.73	867.54	3,636.14	3,456.14	180.00	20.201		
14,899.41	7,730.00	13,285.00	7,806.01	109.43	95.39	91.34	-3,861.40	867.78	3,635.47	3,453.84	181.62	20.017		
14,900.00	7,730.00	13,285.00	7,806.01	109.43	95.39	91.34	-3,861.40	867.78	3,635.47	3,453.85	181.62	20.017		
15,000.00	7,730.00	13,345.00	7,808.01	110.42	96.35	91.37	-3,921.36	867.31	3,636.00	3,452.51	183.49	19.816		
15,100.00	7,730.00	13,428.12	7,809.20	111.43	97.69	91.39	-4,004.45	865.76	3,637.53	3,451.41	186.11	19.545		
15,200.00	7,730.00	13,548.93	7,808.21	112.49	99.63	91.37	-4,125.24	863.71	3,638.88	3,448.89	189.99	19.153		
15,300.00	7,730.00	13,899.35	7,810.64	113.57	105.40	91.41	-4,475.39	869.92	3,637.62	3,436.13	201.50	18.053		
15,400.00	7,730.00	13,962.74	7,811.86	114.68	106.46	91.44	-4,538.68	873.15	3,632.24	3,428.64	203.60	17.840		
15,500.00	7,730.00	13,997.00	7,812.30	115.82	107.04	91.44	-4,572.91	874.62	3,628.07	3,423.36	204.70	17.723		
15,600.00	7,730.00	14,042.56	7,812.66	116.99	107.79	91.45	-4,618.45	875.80	3,625.48	3,419.34	206.14	17.587		
15,698.41	7,730.00	14,086.00	7,812.81	118.17	108.51	91.45	-4,661.89	875.77	3,624.93	3,417.45	207.48	17.471		
15,700.00	7,730.00	14,086.00	7,812.81	118.19	108.51	91.45	-4,661.89	875.77	3,624.93	3,417.46	207.47	17.472		
15,800.00	7,730.00	14,119.89	7,812.66	119.41	109.06	91.45	-4,695.77	875.16	3,626.02	3,417.60	208.43	17.397		
15,900.00	7,730.00	14,176.00	7,811.61	120.65	109.98	91.43	-4,751.85	873.56	3,628.48	3,418.36	210.11	17.269		
16,000.00	7,730.00	14,324.78	7,811.47	121.91	112.41	91.43	-4,900.56	869.67	3,630.70	3,415.60	215.11	16.879		
16,100.00	7,730.00	14,463.33	7,812.21	123.20	114.69	91.44	-5,039.09	867.68	3,631.80	3,412.05	219.75	16.527		
16,200.00	7,730.00	14,566.37	7,813.41	124.50	116.40	91.46	-5,142.13	866.64	3,632.50	3,409.34	223.16	16.278		
16,300.00	7,730.00	14,727.97	7,815.44	125.82	119.09	91.49	-5,303.71	866.48	3,632.35	3,403.71	228.64	15.887		
16,400.00	7,730.00	14,831.16	7,816.82	127.16	120.83	91.51	-5,406.88	867.51	3,631.04	3,398.96	232.08	15.645		
16,500.00	7,730.00	14,921.19	7,818.55	128.52	122.34	91.54	-5,496.89	868.10	3,630.09	3,395.02	235.07	15.442		
16,600.00	7,730.00	15,021.18	7,820.23	129.89	124.02	91.57	-5,596.87	868.97	3,628.93	3,390.51	238.42	15.221		
16,700.00	7,730.00	15,121.63	7,824.03	131.27	125.71	91.63	-5,697.24	869.48	3,628.18	3,386.39	241.79	15.005		
16,800.00	7,730.00	15,245.39	7,827.66	132.67	127.80	91.69	-5,820.94	870.85	3,626.81	3,380.81	246.00	14.743		
16,900.00	7,730.00	15,336.23	7,829.30	134.09	129.34	91.71	-5,911.75	871.97	3,625.29	3,376.25	249.04	14.557		
17,000.00	7,730.00	15,425.36	7,830.60	135.51	130.85	91.73	-6,000.87	872.80	3,624.07	3,372.05	252.02	14.380		
17,093.27	7,730.00	15,479.78	7,831.59	136.85	131.76	91.75	-6,055.28	872.96	3,623.55	3,369.80	253.75	14.280		
17,100.00	7,730.00	15,483.59	7,831.68	136.95	131.83	91.75	-6,059.09	872.95	3,623.55	3,369.68	253.87	14.273		
17,200.00	7,730.00	15,565.06	7,833.88	138.40	133.20	91.78	-6,140.53	872.25	3,624.10	3,367.54	256.56	14.126		
17,300.00	7,730.00	15,735.58	7,839.39	139.85	136.09	91.87	-6,310.95	872.46	3,623.75	3,361.23	262.52	13.804		
17,400.00	7,730.00	15,845.14	7,842.53	141.32	137.95	91.92	-6,420.46	873.90	3,622.19	3,355.93	266.26	13.604		
17,500.00	7,730.00	15,968.24	7,846.25	142.80	140.06	91.98	-6,543.49	875.89	3,620.36	3,349.87	270.49	13.385		
17,600.00	7,730.00	16,023.48	7,847.73	144.28	141.00	92.01	-6,598.70	876.63	3,618.76	3,346.49	272.27	13.291		
17,700.00	7,730.00	16,101.38	7,849.55	145.78	142.32	92.04	-6,676.59	876.83	3,618.19	3,343.34	274.85	13.164		
17,800.00	7,730.00	16,304.74	7,854.44	147.28	145.80	92.12	-6,879.86	879.52	3,616.88	3,334.89	281.99	12.826		
17,900.00	7,730.00	16,370.93	7,855.05	148.79	146.94	92.13	-6,946.02	881.33	3,613.93	3,329.73	284.20	12.716		
18,000.00	7,730.00	16,430.71	7,855.32	150.31	147.96	92.13	-7,005.79	882.14	3,612.23	3,326.09	286.14	12.624		
18,100.00	7,730.00	16,509.28	7,855.59	151.83	149.30	92.14	-7,084.36	882.57	3,611.34	3,322.59	288.75	12.507		
18,200.00	7,730.00	16,602.47	7,855.87	153.37	150.89	92.14	-7,177.55	882.77	3,610.80	3,318.91	291.89	12.370		
18,300.00	7,730.00	16,696.04	7,856.28	154.90	152.49	92.15	-7,271.11	882.73	3,610.52	3,315.47	295.05	12.237		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 318-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,400.00	7,730.00	16,817.23	7,857.83	156.45	154.56	92.17	-7,392.29	883.03	3,609.98	3,310.72	299.26	12.063	
18,500.00	7,730.00	16,963.40	7,860.59	158.00	157.07	92.22	-7,538.43	884.71	3,608.60	3,304.22	304.38	11.856	
18,600.00	7,730.00	17,102.37	7,862.94	159.55	159.47	92.26	-7,677.34	888.07	3,605.90	3,296.68	309.22	11.661	
18,700.00	7,730.00	17,220.15	7,864.52	161.11	161.51	92.28	-7,795.05	891.82	3,602.42	3,289.13	313.29	11.499	
18,800.00	7,730.00	17,298.43	7,865.05	162.68	162.87	92.29	-7,873.29	894.20	3,599.07	3,283.12	315.94	11.391	
18,900.00	7,730.00	17,371.84	7,865.23	164.25	164.14	92.30	-7,946.67	895.96	3,596.34	3,277.93	318.41	11.295	
19,000.00	7,730.00	17,449.53	7,865.40	165.83	165.48	92.30	-8,024.36	897.27	3,594.32	3,273.29	321.02	11.196	
19,100.00	7,730.00	17,545.58	7,866.37	167.41	167.14	92.32	-8,120.39	898.51	3,592.73	3,268.42	324.31	11.078	
19,200.00	7,730.00	17,623.36	7,867.35	168.99	168.48	92.34	-8,198.16	899.39	3,591.33	3,264.42	326.91	10.986	
19,300.00	7,730.00	17,699.48	7,868.15	170.58	169.79	92.35	-8,274.28	899.64	3,590.70	3,261.26	329.44	10.899	
19,365.94	7,730.00	17,753.27	7,868.66	171.63	170.71	92.36	-8,328.06	899.57	3,590.59	3,259.35	331.24	10.840	
19,400.00	7,730.00	17,781.74	7,868.92	172.17	171.20	92.36	-8,356.53	899.46	3,590.62	3,258.42	332.19	10.809	
19,430.54	7,730.00	17,812.27	7,869.19	172.66	171.73	92.37	-8,387.06	899.32	3,590.66	3,257.42	333.24	10.775 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-31.37	218.57	-133.28	256.13				
100.00	100.00	94.54	94.53	0.13	0.16	-31.47	217.94	-133.42	255.55	255.25	0.29	869.723	
200.00	200.00	198.19	198.15	0.49	0.39	-31.85	215.67	-133.97	253.97	253.08	0.89	286.824	
300.00	300.00	301.34	301.13	0.85	0.78	-32.95	210.16	-136.24	250.63	249.00	1.62	154.262	
400.00	400.00	397.78	397.19	1.21	1.15	-34.78	203.22	-141.11	247.46	245.11	2.35	105.507	
488.94	488.94	481.91	480.94	1.53	1.47	-36.63	197.91	-147.13	246.60	243.61	2.99	82.421	CC
500.00	500.00	492.49	491.46	1.57	1.51	-36.88	197.26	-148.01	246.62	243.54	3.07	80.245	ES
600.00	599.98	588.25	586.54	1.92	1.90	-105.18	191.20	-157.54	248.26	244.44	3.81	65.080	
700.00	699.84	682.24	679.42	2.28	2.30	-109.36	184.16	-170.13	253.28	248.71	4.57	55.439	
800.00	799.45	773.73	769.35	2.64	2.71	-114.29	176.77	-185.19	263.14	257.81	5.33	49.328	
900.00	898.70	861.92	855.41	3.02	3.13	-119.64	168.82	-202.70	279.21	273.11	6.10	45.798	
1,000.00	997.47	955.70	946.49	3.41	3.61	-125.39	160.07	-223.28	301.78	294.89	6.89	43.825	
1,100.00	1,095.62	1,050.87	1,039.13	3.84	4.09	-130.82	150.49	-242.86	328.14	320.47	7.67	42.782	
1,200.00	1,193.06	1,140.18	1,126.09	4.29	4.56	-135.53	140.96	-260.87	359.15	350.74	8.41	42.712	SF
1,300.00	1,289.64	1,234.18	1,217.61	4.78	5.05	-140.08	130.39	-279.48	394.76	385.59	9.16	43.082	
1,400.00	1,385.27	1,326.40	1,307.75	5.32	5.52	-143.95	120.48	-296.25	433.81	423.92	9.89	43.848	
1,500.00	1,479.82	1,409.22	1,388.78	5.90	5.93	-146.97	111.75	-310.99	476.98	466.42	10.56	45.164	
1,600.00	1,573.17	1,486.07	1,463.79	6.53	6.33	-149.48	103.45	-325.47	525.20	514.02	11.19	46.946	
1,700.00	1,665.21	1,561.25	1,537.00	7.23	6.73	-151.64	95.46	-340.61	578.40	566.59	11.80	49.004	
1,800.00	1,755.84	1,637.01	1,610.64	7.98	7.13	-153.59	87.17	-356.35	635.76	623.34	12.42	51.168	
1,900.00	1,844.94	1,714.21	1,685.65	8.80	7.55	-155.41	78.40	-372.39	696.58	683.52	13.06	53.328	
2,000.00	1,932.39	1,792.44	1,761.75	9.68	7.97	-157.01	69.91	-388.39	760.32	746.61	13.71	55.453	
2,100.00	2,018.11	1,873.37	1,840.68	10.63	8.39	-158.43	61.95	-404.41	826.50	812.11	14.38	57.460	
2,200.00	2,101.97	1,951.40	1,916.99	11.65	8.79	-159.58	55.04	-419.16	894.77	879.73	15.04	59.501	
2,300.00	2,183.88	2,020.90	1,985.10	12.74	9.13	-160.29	50.48	-432.17	965.32	949.68	15.64	61.726	
2,400.00	2,263.74	2,080.03	2,043.01	13.90	9.42	-160.69	46.95	-443.59	1,038.74	1,022.57	16.17	64.243	
2,431.61	2,288.54	2,097.44	2,060.05	14.29	9.51	-160.78	45.93	-447.05	1,062.54	1,046.21	16.33	65.062	
2,500.00	2,341.97	2,133.91	2,095.69	15.13	9.70	-161.42	43.91	-454.47	1,114.56	1,097.90	16.66	66.892	
2,600.00	2,420.08	2,187.06	2,147.57	16.37	9.97	-162.25	41.25	-465.76	1,191.24	1,174.10	17.15	69.480	
2,700.00	2,498.20	2,244.19	2,203.24	17.63	10.26	-163.04	38.39	-478.24	1,268.43	1,250.77	17.66	71.818	
2,800.00	2,576.32	2,302.78	2,260.29	18.89	10.57	-163.78	35.25	-491.22	1,345.97	1,327.78	18.19	73.985	
2,900.00	2,654.43	2,363.35	2,319.24	20.17	10.89	-164.45	32.15	-504.77	1,423.70	1,404.96	18.74	75.959	
3,000.00	2,732.55	2,435.03	2,389.05	21.45	11.26	-165.15	28.74	-520.68	1,501.34	1,481.96	19.39	77.449	
3,100.00	2,810.67	2,494.11	2,446.64	22.74	11.57	-165.68	25.95	-533.57	1,578.81	1,558.88	19.93	79.215	
3,200.00	2,888.78	2,544.98	2,496.16	24.03	11.84	-166.12	22.86	-544.79	1,656.70	1,636.29	20.41	81.172	
3,300.00	2,966.90	2,614.37	2,563.68	25.33	12.20	-166.71	18.00	-560.07	1,734.80	1,713.75	21.04	82.446	
3,400.00	3,045.02	2,684.62	2,632.11	26.63	12.58	-167.26	13.03	-575.09	1,812.56	1,790.88	21.68	83.597	
3,500.00	3,123.13	2,754.37	2,700.12	27.94	12.94	-167.77	7.88	-589.71	1,890.18	1,867.86	22.32	84.686	
3,600.00	3,201.25	2,838.36	2,782.16	29.24	13.38	-168.32	1.94	-606.71	1,967.35	1,944.27	23.07	85.264	
3,700.00	3,279.37	2,912.74	2,854.93	30.55	13.75	-168.77	-3.07	-621.23	2,044.04	2,020.29	23.75	86.064	
3,800.00	3,357.49	2,963.11	2,904.23	31.86	14.01	-169.04	-6.43	-631.03	2,120.72	2,096.49	24.24	87.499	
3,900.00	3,435.60	3,006.79	2,946.89	33.18	14.24	-169.27	-9.35	-639.92	2,197.99	2,173.32	24.67	89.097	
4,000.00	3,513.72	3,045.24	2,984.37	34.49	14.44	-169.45	-11.95	-648.11	2,275.88	2,250.82	25.06	90.819	
4,100.00	3,591.84	3,080.55	3,018.70	35.81	14.63	-169.62	-14.50	-655.99	2,354.49	2,329.06	25.42	92.618	
4,200.00	3,669.95	3,115.66	3,052.73	37.12	14.82	-169.78	-17.22	-664.17	2,433.79	2,408.01	25.78	94.406	
4,300.00	3,748.07	3,182.07	3,117.05	38.44	15.20	-170.07	-22.60	-679.81	2,513.35	2,486.94	26.41	95.168	
4,400.00	3,826.19	3,295.54	3,227.20	39.76	15.82	-170.55	-32.08	-705.32	2,592.45	2,565.01	27.44	94.482	
4,500.00	3,904.30	3,409.30	3,338.21	41.08	16.42	-171.00	-41.31	-728.41	2,670.09	2,641.63	28.46	93.824	
4,600.00	3,982.42	3,440.09	3,368.26	42.40	16.58	-171.11	-43.77	-734.67	2,747.64	2,718.85	28.79	95.434	
4,700.00	4,060.54	3,490.00	3,416.87	43.72	16.84	-171.28	-47.81	-745.22	2,825.79	2,796.51	29.28	96.501	
4,800.00	4,138.66	3,513.31	3,439.53	45.05	16.97	-171.36	-49.69	-750.36	2,904.41	2,874.86	29.55	98.289	
4,900.00	4,216.77	3,546.77	3,472.00	46.37	17.16	-171.46	-52.31	-758.04	2,983.65	2,953.75	29.90	99.782	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,584.00	3,508.02	47.69	17.36	-171.56	-55.13	-766.98	3,063.46	3,033.17	30.29	101.150		
5,100.00	4,373.01	3,775.74	3,694.26	49.02	18.41	-172.03	-68.50	-810.47	3,142.83	3,110.83	32.00	98.209		
5,200.00	4,451.12	3,810.61	3,728.29	50.34	18.60	-172.12	-71.15	-817.63	3,220.58	3,188.21	32.37	99.485		
5,300.00	4,529.24	3,849.11	3,765.80	51.67	18.80	-172.22	-74.06	-825.81	3,298.78	3,266.01	32.77	100.655		
5,400.00	4,607.36	3,918.81	3,833.64	52.99	19.17	-172.38	-79.44	-840.87	3,377.27	3,343.83	33.44	100.993		
5,500.00	4,685.47	3,993.58	3,906.51	54.32	19.57	-172.57	-85.64	-856.44	3,455.39	3,421.24	34.15	101.181		
5,600.00	4,763.59	4,055.55	3,966.91	55.64	19.90	-172.71	-90.71	-869.31	3,533.47	3,498.72	34.75	101.675		
5,700.00	4,841.71	4,098.15	4,008.41	56.97	20.13	-172.81	-94.33	-878.24	3,611.74	3,576.55	35.19	102.631		
5,800.00	4,919.83	4,148.00	4,056.90	58.30	20.40	-172.93	-98.97	-888.83	3,690.36	3,654.66	35.69	103.397		
5,900.00	4,997.94	4,183.51	4,091.40	59.62	20.59	-173.01	-102.45	-896.49	3,769.27	3,733.20	36.07	104.501		
6,000.00	5,076.06	5,174.41	5,071.53	60.95	24.61	-174.54	-148.27	-1,009.61	3,844.84	3,801.34	43.50	88.394		
6,100.00	5,154.18	5,248.41	5,145.53	62.28	24.79	-174.63	-148.63	-1,009.44	3,907.07	3,862.91	44.16	88.472		
6,200.00	5,232.29	5,335.01	5,232.13	63.61	25.00	-174.74	-149.41	-1,009.10	3,969.30	3,924.40	44.90	88.401		
6,300.00	5,310.41	5,422.77	5,319.88	64.93	25.21	-174.86	-150.46	-1,008.40	4,031.32	3,985.67	45.65	88.316		
6,400.00	5,388.53	5,491.69	5,388.79	66.26	25.38	-174.94	-151.39	-1,007.75	4,093.28	4,047.00	46.28	88.440		
6,500.00	5,466.64	5,551.00	5,448.09	67.59	25.53	-175.02	-152.15	-1,007.50	4,155.61	4,108.75	46.86	88.674		
6,600.00	5,544.76	5,621.34	5,518.43	68.92	25.72	-175.09	-152.78	-1,007.54	4,218.19	4,170.67	47.52	88.768		
6,700.00	5,622.88	5,704.16	5,601.24	70.25	25.95	-175.17	-152.94	-1,007.84	4,280.81	4,232.55	48.25	88.715		
6,800.00	5,701.00	5,788.17	5,685.25	71.58	26.17	-175.23	-152.54	-1,008.21	4,343.29	4,294.30	48.99	88.652		
6,900.00	5,779.11	5,865.17	5,762.25	72.91	26.38	-175.29	-152.09	-1,008.51	4,405.72	4,356.03	49.69	88.669		
7,000.00	5,857.23	5,935.63	5,832.71	74.23	26.57	-175.34	-151.65	-1,008.89	4,468.24	4,417.89	50.34	88.757		
7,100.00	5,935.35	6,000.16	5,897.24	75.56	26.75	-175.39	-151.30	-1,009.38	4,530.95	4,479.98	50.96	88.906		
7,200.00	6,013.46	6,065.41	5,962.49	76.89	26.94	-175.43	-151.00	-1,010.06	4,593.88	4,542.29	51.59	89.045		
7,300.00	6,091.58	6,134.88	6,031.95	78.22	27.14	-175.48	-150.60	-1,011.00	4,657.02	4,604.77	52.25	89.135		
7,400.00	6,169.70	6,214.41	6,111.47	79.55	27.37	-175.53	-150.35	-1,012.02	4,720.18	4,667.21	52.97	89.110		
7,500.00	6,247.81	6,265.20	6,162.25	80.88	27.52	-175.56	-150.29	-1,012.80	4,783.56	4,730.06	53.51	89.403		
7,600.00	6,325.93	6,331.41	6,228.45	82.21	27.72	-175.60	-150.24	-1,014.12	4,847.30	4,793.15	54.14	89.527		
7,700.00	6,404.05	6,415.75	6,312.78	83.54	27.98	-175.65	-150.05	-1,015.77	4,910.97	4,856.06	54.90	89.446		
7,800.00	6,482.17	6,489.80	6,386.81	84.87	28.20	-175.69	-149.79	-1,017.25	4,974.64	4,919.04	55.60	89.478		
7,900.00	6,560.28	6,578.28	6,475.27	86.20	28.47	-175.74	-149.51	-1,018.92	5,038.24	4,981.85	56.39	89.352		
8,000.00	6,638.40	6,718.31	6,615.30	87.53	28.88	-175.83	-149.89	-1,020.28	5,101.41	5,043.89	57.52	88.689		
8,100.00	6,716.52	6,828.09	6,725.06	88.86	29.18	-175.92	-151.05	-1,019.60	5,163.54	5,105.10	58.43	88.366		
8,200.00	6,794.63	6,895.08	6,792.06	90.20	29.36	-175.97	-151.42	-1,019.27	5,225.67	5,166.61	59.07	88.467		
8,300.00	6,872.75	6,955.00	6,851.97	91.53	29.53	-176.01	-151.80	-1,019.17	5,288.07	5,228.41	59.66	88.637		
8,400.00	6,950.87	7,015.11	6,912.08	92.86	29.70	-176.05	-152.21	-1,019.28	5,350.74	5,290.48	60.26	88.797		
8,500.00	7,028.98	7,076.06	6,973.03	94.19	29.88	-176.09	-152.65	-1,019.58	5,413.65	5,352.79	60.86	88.948		
8,600.00	7,107.10	7,137.08	7,034.04	95.52	30.07	-176.13	-153.22	-1,020.04	5,476.80	5,415.34	61.47	89.098		
8,647.91	7,144.53	7,166.05	7,063.01	96.16	30.16	-176.15	-153.54	-1,020.30	5,507.14	5,445.39	61.76	89.172		
8,650.00	7,146.16	7,167.31	7,064.27	96.18	30.16	-176.56	-153.55	-1,020.32	5,508.47	5,446.70	61.77	89.175		
8,700.00	7,185.66	7,197.79	7,094.75	96.84	30.25	173.48	-153.88	-1,020.65	5,539.64	5,477.57	62.07	89.247		
8,750.00	7,225.78	7,228.71	7,125.66	97.47	30.35	163.41	-154.20	-1,021.05	5,569.71	5,507.34	62.37	89.306		
8,800.00	7,266.21	7,281.49	7,178.44	98.08	30.51	153.53	-154.79	-1,021.70	5,598.37	5,535.57	62.81	89.138		
8,850.00	7,306.63	7,340.17	7,237.11	98.64	30.69	144.06	-155.58	-1,022.19	5,625.32	5,562.05	63.28	88.901		
8,900.00	7,346.75	7,365.46	7,262.39	99.17	30.77	135.04	-156.00	-1,022.38	5,650.51	5,587.00	63.51	88.977		
8,950.00	7,386.25	7,395.66	7,292.59	99.64	30.86	126.80	-156.57	-1,022.63	5,673.82	5,610.06	63.76	88.991		
9,000.00	7,424.84	7,430.18	7,327.10	100.06	30.97	119.45	-157.32	-1,022.92	5,695.12	5,631.09	64.03	88.946		
9,050.00	7,462.22	7,681.31	7,578.16	100.42	31.68	114.42	-161.32	-1,020.47	5,713.39	5,647.66	65.73	86.921		
9,100.00	7,498.11	7,757.93	7,654.75	100.74	31.88	109.28	-161.25	-1,018.48	5,728.76	5,662.51	66.25	86.477		
9,150.00	7,532.24	7,956.65	7,853.27	100.99	32.38	105.91	-157.98	-1,010.43	5,741.05	5,673.55	67.50	85.051		
9,200.00	7,564.34	9,200.00	7,874.01	101.19	35.47	102.06	-157.36	-1,009.34	5,750.66	5,679.29	71.36	80.582		
9,250.00	7,594.17	7,984.00	7,880.57	101.34	32.44	98.79	-157.19	-1,009.01	5,758.13	5,690.40	67.72	85.024		
9,300.00	7,621.50	8,017.53	7,914.05	101.45	32.53	96.35	-156.39	-1,007.30	5,763.19	5,695.24	67.96	84.808		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 168-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	8,028.22	7,924.73	101.50	32.56	94.30	-156.24	-1,006.78	5,766.11	5,698.06	68.05	84.736		
9,400.00	7,667.87	8,037.74	7,934.24	101.51	32.58	92.76	-156.14	-1,006.32	5,766.79	5,698.65	68.14	84.635		
9,450.00	7,686.55	8,046.01	7,942.50	101.48	32.60	91.68	-156.08	-1,005.93	5,765.23	5,697.00	68.23	84.502		
9,500.00	7,702.04	8,052.94	7,949.42	101.42	32.62	91.04	-156.05	-1,005.62	5,761.46	5,693.14	68.32	84.335		
9,550.00	7,714.20	8,077.00	7,973.45	101.33	32.68	91.00	-156.11	-1,004.55	5,755.58	5,687.05	68.53	83.986		
9,600.00	7,722.96	8,077.00	7,973.45	101.20	32.68	91.14	-156.11	-1,004.55	5,747.48	5,678.87	68.61	83.774		
9,650.00	7,728.24	8,077.00	7,973.45	101.06	32.68	91.67	-156.11	-1,004.55	5,737.33	5,668.63	68.70	83.511		
9,699.97	7,730.00	8,077.00	7,973.45	100.90	32.68	92.61	-156.11	-1,004.55	5,725.20	5,656.38	68.82	83.194		
9,800.00	7,730.00	8,077.00	7,973.45	100.56	32.68	92.61	-156.11	-1,004.55	5,699.80	5,630.71	69.09	82.494		
9,900.00	7,730.00	8,077.00	7,973.45	100.24	32.68	92.61	-156.11	-1,004.55	5,676.06	5,606.64	69.41	81.773		
10,000.00	7,730.00	8,077.00	7,973.45	99.93	32.68	92.61	-156.11	-1,004.55	5,653.98	5,584.21	69.78	81.031		
10,100.00	7,730.00	8,077.00	7,973.45	99.64	32.68	92.61	-156.11	-1,004.55	5,633.60	5,563.42	70.18	80.273		
10,200.00	7,730.00	8,077.00	7,973.45	99.36	32.68	92.61	-156.11	-1,004.55	5,614.92	5,544.29	70.63	79.500		
10,300.00	7,730.00	8,077.00	7,973.45	99.09	32.68	92.61	-156.11	-1,004.55	5,597.97	5,526.85	71.12	78.716		
10,400.00	7,730.00	8,077.00	7,973.45	98.84	32.68	92.61	-156.11	-1,004.55	5,582.75	5,511.11	71.64	77.924		
10,500.00	7,730.00	8,077.00	7,973.45	98.61	32.68	92.61	-156.11	-1,004.55	5,569.29	5,497.08	72.21	77.127		
10,600.00	7,730.00	8,077.00	7,973.45	98.39	32.68	92.61	-156.11	-1,004.55	5,557.60	5,484.79	72.81	76.329		
10,700.00	7,730.00	8,077.00	7,973.45	98.18	32.68	92.61	-156.11	-1,004.55	5,547.69	5,474.24	73.45	75.533		
10,800.00	7,730.00	8,077.00	7,973.45	97.99	32.68	92.61	-156.11	-1,004.55	5,539.56	5,465.45	74.12	74.742		
10,900.00	7,730.00	8,077.00	7,973.45	97.81	32.68	92.61	-156.11	-1,004.55	5,533.23	5,458.42	74.81	73.959		
11,000.00	7,730.00	8,077.00	7,973.45	97.64	32.68	92.61	-156.11	-1,004.55	5,528.70	5,453.16	75.54	73.188		
11,100.00	7,730.00	8,077.00	7,973.45	97.50	32.68	92.61	-156.11	-1,004.55	5,525.98	5,449.69	76.29	72.431		
11,200.00	7,730.00	8,077.00	7,973.45	97.36	32.68	92.61	-156.11	-1,004.55	5,525.07	5,448.00	77.07	71.691		
11,200.49	7,730.00	8,077.00	7,973.45	97.36	32.68	92.61	-156.11	-1,004.55	5,525.07	5,447.99	77.07	71.687		
11,300.00	7,730.00	8,077.00	7,973.45	97.24	32.68	92.61	-156.11	-1,004.55	5,525.96	5,448.10	77.86	70.969		
11,400.00	7,730.00	8,077.00	7,973.45	97.14	32.68	92.61	-156.11	-1,004.55	5,528.67	5,449.99	78.68	70.269		
11,500.00	7,730.00	8,077.00	7,973.45	97.06	32.68	92.61	-156.11	-1,004.55	5,533.18	5,453.67	79.51	69.592		
11,600.00	7,730.00	8,069.36	7,965.82	96.98	32.66	92.53	-156.07	-1,004.88	5,539.48	5,459.18	80.30	68.984		
11,700.00	7,730.00	8,069.65	7,966.12	96.93	32.66	92.53	-156.07	-1,004.87	5,547.59	5,466.44	81.16	68.356		
11,800.00	7,730.00	8,069.96	7,966.43	96.90	32.66	92.54	-156.07	-1,004.86	5,557.49	5,475.47	82.02	67.754		
11,900.00	7,730.00	8,070.29	7,966.75	96.88	32.66	92.54	-156.07	-1,004.84	5,569.17	5,486.27	82.90	67.182		
12,000.00	7,730.00	8,070.64	7,967.10	96.88	32.66	92.54	-156.07	-1,004.83	5,582.61	5,498.83	83.78	66.638		
12,100.00	7,730.00	8,071.02	7,967.48	96.90	32.66	92.55	-156.07	-1,004.81	5,597.81	5,513.15	84.66	66.124		
12,200.00	7,730.00	8,071.42	7,967.88	96.94	32.67	92.55	-156.08	-1,004.79	5,614.74	5,529.21	85.54	65.641		
12,300.00	7,730.00	8,071.84	7,968.30	97.00	32.67	92.56	-156.08	-1,004.77	5,633.40	5,546.99	86.42	65.188		
12,400.00	7,730.00	8,072.30	7,968.76	97.08	32.67	92.56	-156.08	-1,004.75	5,653.77	5,566.48	87.30	64.766		
12,500.00	7,730.00	8,072.80	7,969.26	97.18	32.67	92.56	-156.08	-1,004.73	5,675.83	5,587.66	88.17	64.375		
12,600.00	7,730.00	8,073.33	7,969.79	97.31	32.67	92.57	-156.09	-1,004.71	5,699.56	5,610.52	89.04	64.014		
12,700.00	7,730.00	8,073.91	7,970.37	97.46	32.67	92.58	-156.09	-1,004.68	5,724.93	5,635.04	89.90	63.684		
12,800.00	7,730.00	8,074.54	7,971.00	97.64	32.67	92.58	-156.09	-1,004.66	5,751.94	5,661.19	90.75	63.384		
12,900.00	7,730.00	8,075.23	7,971.68	97.85	32.68	92.59	-156.10	-1,004.63	5,780.54	5,688.95	91.59	63.113		
13,000.00	7,730.00	8,075.98	7,972.43	98.09	32.68	92.60	-156.10	-1,004.59	5,810.73	5,718.31	92.42	62.872		
13,100.00	7,730.00	8,076.80	7,973.26	98.35	32.68	92.61	-156.11	-1,004.56	5,842.47	5,749.23	93.24	62.660		
13,200.00	7,730.00	8,077.82	7,974.28	98.65	32.68	92.62	-156.12	-1,004.52	5,875.75	5,781.70	94.05	62.476		
13,300.00	7,730.00	8,079.00	7,975.45	98.98	32.69	92.63	-156.13	-1,004.46	5,910.52	5,815.68	94.84	62.319		
13,400.00	7,730.00	8,080.33	7,976.78	99.34	32.69	92.64	-156.14	-1,004.41	5,946.78	5,851.16	95.62	62.189		
13,500.00	7,730.00	8,081.84	7,978.29	99.74	32.69	92.66	-156.15	-1,004.34	5,984.49	5,888.10	96.39	62.085		
13,600.00	7,730.00	8,083.57	7,980.01	100.17	32.70	92.68	-156.17	-1,004.27	6,023.62	5,926.48	97.14	62.007		
13,700.00	7,730.00	8,085.57	7,982.01	100.65	32.70	92.70	-156.19	-1,004.19	6,064.15	5,966.26	97.88	61.954		
13,800.00	7,730.00	8,087.91	7,984.36	101.16	32.71	92.72	-156.21	-1,004.09	6,106.04	6,007.44	98.61	61.924		
13,900.00	7,730.00	8,090.70	7,987.14	101.71	32.72	92.75	-156.25	-1,003.97	6,149.28	6,049.96	99.31	61.917		
14,000.00	7,730.00	8,094.06	7,990.50	102.30	32.73	92.79	-156.29	-1,003.83	6,193.83	6,093.82	100.01	61.932		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 168-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	8,098.20	7,994.63	102.93	32.74	92.83	-156.35	-1,003.66	6,239.66	6,138.97	100.69	61.967		
14,200.00	7,730.00	14,200.00	7,951.68	103.60	48.56	92.38	-156.36	-1,005.60	6,286.73	6,168.50	118.23	53.174		
14,300.00	7,730.00	14,300.00	7,950.51	104.32	48.83	92.37	-156.38	-1,005.65	6,335.05	6,215.95	119.10	53.191		
14,400.00	7,730.00	14,400.00	7,949.34	105.07	49.10	92.36	-156.39	-1,005.71	6,384.56	6,264.61	119.95	53.225		
14,500.00	7,730.00	8,132.48	8,028.88	105.86	32.83	93.18	-157.10	-1,002.29	6,435.26	6,331.92	103.34	62.274		
14,600.00	7,730.00	8,152.74	8,049.11	106.70	32.88	93.39	-157.75	-1,001.52	6,487.08	6,383.07	104.01	62.368		
14,700.00	7,730.00	14,700.00	8,023.75	107.57	51.08	93.13	-157.31	-1,002.56	6,539.91	6,416.07	123.83	52.812		
14,800.00	7,730.00	8,174.74	8,071.09	108.48	32.94	93.62	-158.61	-1,000.72	6,594.02	6,488.81	105.22	62.669		
14,900.00	7,730.00	8,181.49	8,077.82	109.43	32.96	93.69	-158.89	-1,000.47	6,649.10	6,543.33	105.78	62.860		
15,000.00	7,730.00	8,188.29	8,084.61	110.42	32.98	93.76	-159.16	-1,000.21	6,705.21	6,598.90	106.32	63.069		
15,100.00	7,730.00	8,195.14	8,091.45	111.43	33.00	93.83	-159.44	-999.96	6,762.33	6,655.49	106.84	63.294		
15,200.00	7,730.00	8,202.05	8,098.35	112.49	33.02	93.90	-159.73	-999.69	6,820.44	6,713.09	107.35	63.535		
15,300.00	7,730.00	8,209.02	8,105.31	113.57	33.04	93.98	-160.01	-999.43	6,879.50	6,771.66	107.84	63.792		
15,400.00	7,730.00	8,216.04	8,112.32	114.68	33.06	94.05	-160.31	-999.15	6,939.50	6,831.17	108.32	64.064		
15,500.00	7,730.00	8,223.13	8,119.39	115.82	33.08	94.12	-160.60	-998.87	7,000.40	6,891.62	108.79	64.351		
15,600.00	7,730.00	8,230.27	8,126.52	116.99	33.10	94.20	-160.90	-998.59	7,062.20	6,952.96	109.24	64.651		
15,700.00	7,730.00	8,237.47	8,133.71	118.19	33.12	94.27	-161.20	-998.30	7,124.85	7,015.18	109.67	64.966		
15,800.00	7,730.00	8,244.73	8,140.96	119.41	33.14	94.35	-161.51	-998.01	7,188.35	7,078.26	110.09	65.293		
15,900.00	7,730.00	8,252.05	8,148.27	120.65	33.16	94.42	-161.82	-997.71	7,252.67	7,142.17	110.50	65.634		
16,000.00	7,730.00	8,259.44	8,155.64	121.91	33.18	94.50	-162.13	-997.41	7,317.78	7,206.88	110.90	65.986		
16,100.00	7,730.00	8,266.89	8,163.08	123.20	33.20	94.58	-162.45	-997.10	7,383.67	7,272.39	111.28	66.351		
16,200.00	7,730.00	8,274.40	8,170.57	124.50	33.22	94.65	-162.77	-996.78	7,450.32	7,338.66	111.65	66.727		
16,300.00	7,730.00	16,300.00	8,147.10	125.82	56.66	94.41	-161.77	-997.74	7,517.72	7,381.94	135.78	55.366		
16,400.00	7,730.00	8,268.92	8,165.11	127.16	33.20	94.60	-162.53	-997.02	7,585.82	7,473.54	112.27	67.565		
16,500.00	7,730.00	8,271.65	8,167.83	128.52	33.21	94.62	-162.65	-996.91	7,654.62	7,542.03	112.59	67.985		
16,600.00	7,730.00	8,274.36	8,170.54	129.89	33.22	94.65	-162.76	-996.80	7,724.10	7,611.21	112.90	68.416		
16,700.00	7,730.00	8,277.07	8,173.24	131.27	33.23	94.68	-162.87	-996.69	7,794.25	7,681.06	113.20	68.856		
16,800.00	7,730.00	8,279.76	8,175.93	132.67	33.23	94.71	-162.99	-996.58	7,865.04	7,751.56	113.48	69.306		
16,900.00	7,730.00	8,282.45	8,178.61	134.09	33.24	94.74	-163.10	-996.48	7,936.46	7,822.70	113.76	69.765		
17,000.00	7,730.00	8,285.12	8,181.28	135.51	33.25	94.76	-163.21	-996.37	8,008.49	7,894.46	114.03	70.233		
17,100.00	7,730.00	8,287.78	8,183.94	136.95	33.26	94.79	-163.32	-996.27	8,081.11	7,966.83	114.29	70.709		
17,200.00	7,730.00	8,290.44	8,186.59	138.40	33.26	94.82	-163.43	-996.16	8,154.32	8,039.78	114.54	71.194		
17,300.00	7,730.00	8,293.08	8,189.23	139.85	33.27	94.85	-163.54	-996.06	8,228.08	8,113.30	114.78	71.687		
17,400.00	7,730.00	8,295.71	8,191.86	141.32	33.28	94.87	-163.65	-995.96	8,302.39	8,187.38	115.01	72.187		
17,500.00	7,730.00	8,298.34	8,194.48	142.80	33.29	94.90	-163.76	-995.86	8,377.24	8,262.00	115.24	72.695		
17,600.00	7,730.00	8,300.95	8,197.09	144.28	33.29	94.93	-163.87	-995.76	8,452.60	8,337.14	115.46	73.210		
17,700.00	7,730.00	8,303.56	8,199.69	145.78	33.30	94.95	-163.97	-995.66	8,528.47	8,412.80	115.67	73.732		
17,800.00	7,730.00	8,306.15	8,202.28	147.28	33.31	94.98	-164.08	-995.56	8,604.83	8,488.96	115.87	74.261		
17,900.00	7,730.00	8,308.73	8,204.86	148.79	33.32	95.01	-164.19	-995.46	8,681.67	8,565.60	116.07	74.797		
18,000.00	7,730.00	8,311.31	8,207.43	150.31	33.32	95.03	-164.29	-995.36	8,758.98	8,642.72	116.26	75.339		
18,100.00	7,730.00	8,313.87	8,209.99	151.83	33.33	95.06	-164.40	-995.27	8,836.74	8,720.29	116.45	75.887		
18,200.00	7,730.00	8,316.43	8,212.54	153.37	33.34	95.09	-164.50	-995.17	8,914.94	8,798.32	116.62	76.441		
18,300.00	7,730.00	8,318.98	8,215.08	154.90	33.34	95.11	-164.60	-995.08	8,993.58	8,876.78	116.80	77.001		
18,400.00	7,730.00	8,321.51	8,217.61	156.45	33.35	95.14	-164.71	-994.98	9,072.63	8,955.67	116.97	77.566		
18,500.00	7,730.00	8,324.04	8,220.14	158.00	33.36	95.17	-164.81	-994.89	9,152.09	9,034.97	117.13	78.137		
18,600.00	7,730.00	8,326.56	8,222.65	159.55	33.36	95.19	-164.91	-994.80	9,231.95	9,114.67	117.29	78.714		
18,700.00	7,730.00	8,329.07	8,225.16	161.11	33.37	95.22	-165.01	-994.71	9,312.20	9,194.76	117.44	79.295		
18,800.00	7,730.00	8,331.57	8,227.65	162.68	33.38	95.24	-165.11	-994.62	9,392.83	9,275.24	117.59	79.881		
18,900.00	7,730.00	8,334.06	8,230.14	164.25	33.39	95.27	-165.21	-994.53	9,473.82	9,356.10	117.73	80.472		
19,000.00	7,730.00	8,336.54	8,232.62	165.83	33.39	95.30	-165.31	-994.44	9,555.18	9,437.31	117.87	81.067		
19,100.00	7,730.00	8,339.01	8,235.09	167.41	33.40	95.32	-165.41	-994.35	9,636.88	9,518.88	118.00	81.667		
19,200.00	7,730.00	8,341.47	8,237.54	168.99	33.41	95.35	-165.51	-994.26	9,718.93	9,600.79	118.13	82.272		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		168-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	8,343.93	8,239.99	170.58	33.41	95.37	-165.61	-994.17	9,801.30	9,683.04	118.26	82.880	
19,400.00	7,730.00	8,358.00	8,254.05	172.17	33.45	95.52	-166.17	-993.68	9,884.01	9,765.59	118.42	83.465	
19,430.54	7,730.00	8,358.00	8,254.05	172.66	33.45	95.52	-166.17	-993.68	9,909.33	9,790.87	118.46	83.654	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-36.90	218.57	-164.08	273.42				
100.00	100.00	90.63	90.63	0.13	0.15	-36.79	219.07	-163.80	273.54	273.25	0.28	968.349	ES
200.00	200.00	183.47	183.45	0.49	0.39	-36.49	220.87	-163.35	274.85	273.96	0.89	309.919	
300.00	300.00	271.79	271.63	0.85	0.72	-36.31	225.15	-165.43	280.13	278.55	1.58	177.836	
400.00	400.00	361.09	360.55	1.21	1.05	-36.49	231.17	-170.99	289.25	286.99	2.26	128.186	
500.00	500.00	450.43	449.17	1.57	1.40	-36.78	239.28	-178.87	301.80	298.86	2.94	102.588	
600.00	599.98	539.20	536.81	1.92	1.78	-102.34	249.69	-188.35	317.96	314.34	3.62	87.914	
700.00	699.84	626.05	622.09	2.28	2.17	-102.85	262.27	-198.91	338.03	333.74	4.28	78.893	
800.00	799.45	710.37	704.25	2.64	2.59	-103.63	276.86	-210.93	362.47	357.53	4.95	73.275	
900.00	898.70	793.49	784.62	3.02	3.03	-104.69	292.79	-224.95	391.09	385.47	5.61	69.690	
1,000.00	997.47	872.02	859.79	3.41	3.47	-105.80	309.73	-240.02	424.26	417.99	6.26	67.735	
1,100.00	1,095.62	956.06	939.59	3.84	3.98	-107.10	329.36	-257.61	461.29	454.32	6.97	66.193	
1,200.00	1,193.06	1,049.37	1,028.10	4.29	4.57	-108.71	351.18	-277.56	500.25	492.49	7.76	64.444	
1,300.00	1,289.64	1,131.87	1,106.21	4.78	5.09	-110.02	370.86	-295.37	541.41	532.89	8.52	63.547	
1,400.00	1,385.27	1,217.73	1,187.27	5.32	5.66	-111.34	392.25	-313.93	585.07	575.73	9.34	62.654	
1,500.00	1,479.82	1,300.72	1,265.49	5.90	6.21	-112.53	413.39	-331.90	630.97	620.80	10.18	62.003	
1,600.00	1,573.17	1,373.42	1,333.73	6.53	6.71	-113.40	432.42	-348.15	679.74	668.76	10.98	61.922	
1,700.00	1,665.21	1,442.82	1,398.38	7.23	7.20	-114.07	451.84	-364.31	732.05	720.25	11.79	62.079	
1,800.00	1,755.84	1,509.02	1,459.50	7.98	7.69	-114.51	471.83	-380.00	787.65	775.03	12.62	62.416	
1,900.00	1,844.94	1,565.09	1,510.80	8.80	8.13	-114.62	489.36	-394.30	846.89	833.50	13.39	63.238	
2,000.00	1,932.39	1,631.69	1,571.27	9.68	8.66	-114.99	510.34	-412.73	909.60	895.30	14.30	63.608	
2,100.00	2,018.11	1,707.97	1,640.70	10.63	9.27	-115.58	533.91	-433.73	973.90	958.56	15.34	63.471	
2,200.00	2,101.97	1,773.13	1,700.06	11.65	9.79	-115.83	553.68	-451.93	1,040.19	1,023.88	16.31	63.774	
2,300.00	2,183.88	1,835.59	1,756.94	12.74	10.30	-115.97	572.28	-469.81	1,108.67	1,091.39	17.28	64.165	
2,400.00	2,263.74	1,895.66	1,811.65	13.90	10.79	-115.99	589.80	-487.40	1,179.30	1,161.05	18.25	64.620	
2,431.61	2,288.54	1,914.45	1,828.74	14.29	10.94	-115.97	595.28	-492.94	1,202.05	1,183.49	18.56	64.761	
2,500.00	2,341.97	1,954.80	1,865.43	15.13	11.27	-117.17	607.12	-504.86	1,251.70	1,232.48	19.23	65.095	
2,600.00	2,420.08	2,028.82	1,932.79	16.37	11.87	-119.16	628.90	-526.49	1,324.71	1,304.34	20.37	65.030	
2,700.00	2,498.20	2,123.30	2,019.29	17.63	12.62	-121.42	656.37	-552.76	1,397.35	1,375.62	21.74	64.287	
2,800.00	2,576.32	2,209.79	2,099.13	18.89	13.29	-123.24	680.98	-575.10	1,468.99	1,445.99	23.01	63.854	
2,900.00	2,654.43	2,285.19	2,168.92	20.17	13.86	-124.66	702.49	-593.83	1,540.45	1,516.30	24.15	63.785	
3,000.00	2,732.55	2,355.09	2,233.68	21.45	14.39	-125.86	722.58	-610.84	1,611.97	1,586.74	25.23	63.885	
3,100.00	2,810.67	2,416.21	2,290.34	22.74	14.85	-126.83	739.88	-625.84	1,683.86	1,657.65	26.21	64.248	
3,200.00	2,888.78	2,485.92	2,355.05	24.03	15.37	-127.88	759.22	-643.12	1,756.10	1,728.83	27.27	64.392	
3,300.00	2,966.90	2,557.07	2,421.18	25.33	15.90	-128.87	778.89	-660.51	1,828.35	1,800.01	28.35	64.497	
3,400.00	3,045.02	2,624.79	2,484.09	26.63	16.41	-129.73	797.87	-676.90	1,900.73	1,871.35	29.38	64.688	
3,500.00	3,123.13	2,688.81	2,543.55	27.94	16.88	-130.49	815.84	-692.40	1,973.32	1,942.94	30.37	64.969	
3,600.00	3,201.25	2,752.65	2,602.87	29.24	17.36	-131.21	833.56	-707.96	2,046.15	2,014.79	31.35	65.258	
3,700.00	3,279.37	2,817.30	2,663.00	30.55	17.84	-131.90	851.20	-723.85	2,119.21	2,086.87	32.34	65.532	
3,800.00	3,357.49	2,890.41	2,731.11	31.86	18.38	-132.65	870.80	-741.78	2,192.32	2,158.91	33.41	65.613	
3,900.00	3,435.60	2,961.40	2,797.39	33.18	18.89	-133.34	889.47	-759.06	2,265.39	2,230.93	34.45	65.752	
4,000.00	3,513.72	3,025.88	2,857.69	34.49	19.36	-133.94	906.09	-774.72	2,338.49	2,303.08	35.41	66.037	
4,100.00	3,591.84	3,084.41	2,912.42	35.81	19.78	-134.46	921.04	-789.11	2,411.89	2,375.59	36.30	66.452	
4,200.00	3,669.95	3,144.09	2,968.10	37.12	20.22	-134.95	936.65	-803.87	2,485.58	2,448.39	37.20	66.819	
4,300.00	3,748.07	3,210.13	3,029.43	38.44	20.72	-135.43	954.94	-820.18	2,559.50	2,521.31	38.19	67.027	
4,400.00	3,826.19	3,287.41	3,101.13	39.76	21.30	-135.95	976.80	-838.95	2,633.30	2,593.98	39.32	66.971	
4,500.00	3,904.30	3,331.44	3,141.95	41.08	21.63	-136.23	989.24	-849.79	2,707.35	2,667.31	40.04	67.614	
4,600.00	3,982.42	3,386.28	3,192.75	42.40	22.04	-136.57	1,004.60	-863.63	2,781.88	2,740.98	40.89	68.029	
4,700.00	4,060.54	3,468.96	3,269.43	43.72	22.67	-137.07	1,027.55	-884.33	2,856.32	2,814.23	42.09	67.867	
4,800.00	4,138.66	3,537.35	3,332.97	45.05	23.18	-137.45	1,046.36	-901.26	2,930.61	2,887.51	43.10	67.997	
4,900.00	4,216.77	3,606.87	3,397.64	46.37	23.70	-137.84	1,065.28	-918.40	3,004.86	2,960.74	44.12	68.106	
5,000.00	4,294.89	3,680.15	3,465.90	47.69	24.24	-138.23	1,084.92	-936.41	3,079.08	3,033.89	45.18	68.147	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,100.00	3,576.73	49.02	34.29	-138.83	1,116.06	-964.41	3,152.64	3,098.36	54.28	58.077 SF		
5,200.00	4,451.12	3,880.67	3,653.81	50.34	25.67	-139.23	1,137.27	-982.82	3,225.39	3,177.45	47.94	67.283		
5,300.00	4,529.24	3,930.00	3,700.00	51.67	26.02	-139.46	1,150.39	-994.09	3,298.51	3,249.81	48.70	67.731		
5,400.00	4,607.36	3,955.87	3,724.13	52.99	26.21	-139.56	1,157.42	-1,000.21	3,372.23	3,323.05	49.18	68.571		
5,500.00	4,685.47	3,987.74	3,753.77	54.32	26.45	-139.70	1,166.16	-1,008.01	3,446.66	3,396.93	49.72	69.315		
5,600.00	4,763.59	4,023.00	3,786.44	55.64	26.71	-139.83	1,175.93	-1,016.99	3,521.78	3,471.47	50.31	70.005		
5,700.00	4,841.71	4,053.39	3,814.52	56.97	26.95	-139.95	1,184.35	-1,025.00	3,597.51	3,546.68	50.82	70.783		
5,800.00	4,919.83	4,087.73	3,846.21	58.30	27.21	-140.09	1,193.73	-1,034.32	3,673.80	3,622.41	51.39	71.492		
5,900.00	4,997.94	4,123.15	3,878.85	59.62	27.49	-140.22	1,203.27	-1,044.21	3,750.63	3,698.67	51.96	72.183		
6,000.00	5,076.06	4,169.95	3,921.89	60.95	27.86	-140.40	1,215.93	-1,057.53	3,827.84	3,775.16	52.68	72.659		
6,100.00	5,154.18	4,264.74	4,008.91	62.28	28.61	-140.73	1,242.03	-1,084.60	3,905.28	3,851.24	54.05	72.256		
6,200.00	5,232.29	4,329.86	4,068.96	63.61	29.13	-140.95	1,259.80	-1,102.46	3,981.88	3,926.86	55.02	72.378		
6,300.00	5,310.41	4,357.86	4,094.74	64.93	29.35	-141.05	1,267.31	-1,110.37	4,059.02	4,003.53	55.48	73.155		
6,400.00	5,388.53	4,397.00	4,130.71	66.26	29.66	-141.18	1,277.65	-1,121.84	4,136.76	4,080.66	56.10	73.741		
6,500.00	5,466.64	4,424.23	4,155.68	67.59	29.88	-141.28	1,284.84	-1,129.99	4,214.91	4,158.36	56.55	74.530		
6,600.00	5,544.76	4,472.37	4,199.68	68.92	30.27	-141.43	1,297.94	-1,144.49	4,293.35	4,236.06	57.29	74.937		
6,700.00	5,622.88	4,770.68	4,474.42	70.25	32.61	-142.24	1,380.56	-1,225.96	4,369.23	4,307.85	61.38	71.183		
6,800.00	5,701.00	4,803.47	4,504.72	71.58	32.87	-142.32	1,389.95	-1,234.26	4,444.60	4,382.66	61.94	71.760		
6,900.00	5,779.11	4,836.17	4,534.82	72.91	33.12	-142.39	1,399.49	-1,242.76	4,520.45	4,457.96	62.49	72.340		
7,000.00	5,857.23	4,864.00	4,560.35	74.23	33.34	-142.44	1,407.75	-1,250.15	4,596.78	4,533.81	62.97	72.995		
7,100.00	5,935.35	4,896.45	4,590.04	75.56	33.61	-142.51	1,417.38	-1,259.00	4,673.58	4,610.06	63.52	73.577		
7,200.00	6,013.46	5,989.08	5,639.85	76.89	39.79	-146.06	1,621.27	-1,453.94	4,745.03	4,670.38	74.65	63.563		
7,300.00	6,091.58	6,231.90	5,881.97	78.22	40.46	-147.18	1,631.65	-1,468.42	4,806.00	4,729.73	76.27	63.010		
7,400.00	6,169.70	6,486.00	6,136.00	79.55	40.96	-148.41	1,631.86	-1,473.33	4,863.01	4,785.33	77.67	62.608		
7,500.00	6,247.81	6,536.44	6,186.44	80.88	41.06	-148.64	1,632.08	-1,473.74	4,920.03	4,841.78	78.26	62.871		
7,600.00	6,325.93	6,590.39	6,240.38	82.21	41.17	-148.88	1,632.49	-1,474.46	4,977.61	4,898.76	78.85	63.128		
7,700.00	6,404.05	6,649.38	6,299.36	83.54	41.29	-149.14	1,633.10	-1,475.51	5,035.67	4,956.20	79.46	63.373		
7,800.00	6,482.17	6,895.26	6,545.20	84.87	41.78	-150.19	1,634.70	-1,475.67	5,092.20	5,011.38	80.82	63.008		
7,900.00	6,560.28	6,953.22	6,603.16	86.20	41.88	-150.43	1,634.79	-1,474.98	5,148.19	5,066.78	81.41	63.234		
8,000.00	6,638.40	7,016.00	6,665.94	87.53	42.00	-150.69	1,634.65	-1,474.50	5,204.65	5,122.63	82.02	63.455		
8,100.00	6,716.52	7,062.12	6,712.06	88.86	42.08	-150.88	1,634.40	-1,474.36	5,261.57	5,179.02	82.55	63.734		
8,200.00	6,794.63	7,110.00	6,759.94	90.20	42.17	-151.08	1,634.07	-1,474.44	5,319.02	5,235.93	83.09	64.018		
8,300.00	6,872.75	7,167.66	6,817.60	91.53	42.28	-151.31	1,633.68	-1,474.80	5,376.95	5,293.29	83.66	64.275		
8,400.00	6,950.87	7,222.04	6,871.97	92.86	42.39	-151.52	1,633.43	-1,475.39	5,435.33	5,351.12	84.21	64.547		
8,500.00	7,028.98	7,276.80	6,926.72	94.19	42.50	-151.74	1,633.17	-1,476.20	5,494.14	5,409.38	84.76	64.823		
8,600.00	7,107.10	7,331.24	6,981.15	95.52	42.61	-151.95	1,632.86	-1,477.24	5,553.37	5,468.07	85.30	65.104		
8,647.91	7,144.53	7,357.21	7,007.12	96.16	42.66	-152.05	1,632.71	-1,477.81	5,581.89	5,496.33	85.56	65.241		
8,650.00	7,146.16	7,358.34	7,008.25	96.18	42.66	-152.45	1,632.70	-1,477.84	5,583.14	5,497.57	85.57	65.247		
8,700.00	7,185.66	7,390.00	7,039.90	96.84	42.73	-162.47	1,632.50	-1,478.60	5,613.24	5,527.39	85.84	65.389		
8,750.00	7,225.78	7,463.45	7,113.33	97.47	42.88	-173.00	1,631.91	-1,480.20	5,643.52	5,557.24	86.28	65.412		
8,800.00	7,266.21	7,506.24	7,156.11	98.08	42.97	176.36	1,631.46	-1,480.92	5,673.61	5,587.07	86.54	65.561		
8,850.00	7,306.63	7,536.06	7,185.92	98.64	43.03	165.82	1,631.10	-1,481.47	5,703.53	5,616.82	86.71	65.776		
8,900.00	7,346.75	7,565.62	7,215.48	99.17	43.09	155.66	1,630.70	-1,482.06	5,733.09	5,646.24	86.85	66.012		
8,950.00	7,386.25	7,577.00	7,226.85	99.64	43.11	146.04	1,630.53	-1,482.30	5,762.11	5,675.23	86.88	66.326		
9,000.00	7,424.84	7,603.86	7,253.70	100.06	43.17	137.25	1,630.23	-1,482.96	5,790.37	5,703.42	86.95	66.596		
9,050.00	7,462.22	8,045.00	7,694.46	100.42	44.05	131.74	1,626.25	-1,479.72	5,816.22	5,727.48	88.74	65.539		
9,100.00	7,498.11	8,076.13	7,725.57	100.74	44.11	125.05	1,626.00	-1,478.43	5,839.83	5,751.03	88.80	65.764		
9,150.00	7,532.24	8,101.60	7,751.01	100.99	44.15	119.13	1,625.83	-1,477.41	5,862.26	5,773.45	88.82	66.003		
9,200.00	7,564.34	8,125.48	7,774.87	101.19	44.20	113.95	1,625.70	-1,476.51	5,883.40	5,794.58	88.82	66.242		
9,250.00	7,594.17	8,150.09	7,799.47	101.34	44.24	109.48	1,625.60	-1,475.60	5,903.11	5,814.29	88.81	66.467		
9,300.00	7,621.50	8,175.51	7,824.88	101.45	44.29	105.67	1,625.56	-1,474.69	5,921.26	5,832.45	88.81	66.673		
9,350.00	7,646.13	8,198.27	7,847.62	101.50	44.33	102.41	1,625.56	-1,473.88	5,937.78	5,848.98	88.80	66.868		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,218.21	7,867.55	101.51	44.37	99.67	1,625.61	-1,473.18	5,952.58	5,863.79	88.78	67.048		
9,450.00	7,686.55	8,235.87	7,885.20	101.48	44.41	97.39	1,625.68	-1,472.57	5,965.58	5,876.82	88.77	67.206		
9,500.00	7,702.04	8,252.81	7,902.13	101.42	44.44	95.57	1,625.76	-1,471.98	5,976.73	5,887.97	88.76	67.334		
9,550.00	7,714.20	8,266.02	7,915.33	101.33	44.47	94.14	1,625.82	-1,471.52	5,985.99	5,897.22	88.76	67.440		
9,600.00	7,722.96	8,275.41	7,924.71	101.20	44.48	93.08	1,625.88	-1,471.19	5,993.29	5,904.53	88.76	67.521		
9,650.00	7,728.24	8,280.92	7,930.22	101.06	44.50	92.37	1,625.91	-1,470.99	5,998.63	5,909.86	88.77	67.575		
9,699.97	7,730.00	8,282.54	7,931.84	100.90	44.50	92.01	1,625.92	-1,470.94	6,001.97	5,913.18	88.79	67.600		
9,800.00	7,730.00	8,281.89	7,931.18	100.56	44.50	92.00	1,625.92	-1,470.96	6,007.46	5,918.62	88.84	67.622		
9,900.00	7,730.00	8,281.24	7,930.53	100.24	44.50	91.99	1,625.91	-1,470.98	6,014.61	5,925.70	88.91	67.647		
10,000.00	7,730.00	8,280.59	7,929.89	99.93	44.49	91.99	1,625.91	-1,471.01	6,023.42	5,934.41	89.01	67.673		
10,100.00	7,730.00	8,279.95	7,929.25	99.64	44.49	91.98	1,625.90	-1,471.03	6,033.87	5,944.74	89.12	67.702		
10,200.00	7,730.00	8,279.31	7,928.61	99.36	44.49	91.97	1,625.90	-1,471.05	6,045.95	5,956.69	89.26	67.735		
10,300.00	7,730.00	8,278.68	7,927.98	99.09	44.49	91.97	1,625.90	-1,471.07	6,059.66	5,970.25	89.41	67.772		
10,400.00	7,730.00	8,278.05	7,927.35	98.84	44.49	91.96	1,625.89	-1,471.10	6,074.99	5,985.41	89.58	67.813		
10,500.00	7,730.00	8,277.43	7,926.73	98.61	44.49	91.96	1,625.89	-1,471.12	6,091.92	6,002.15	89.77	67.859		
10,600.00	7,730.00	8,276.81	7,926.11	98.39	44.49	91.95	1,625.89	-1,471.14	6,110.44	6,020.46	89.98	67.911		
10,700.00	7,730.00	8,276.20	7,925.50	98.18	44.49	91.95	1,625.88	-1,471.16	6,130.54	6,040.34	90.20	67.968		
10,800.00	7,730.00	8,275.59	7,924.89	97.99	44.49	91.94	1,625.88	-1,471.18	6,152.19	6,061.76	90.43	68.032		
10,900.00	7,730.00	8,274.98	7,924.28	97.81	44.48	91.93	1,625.87	-1,471.20	6,175.39	6,084.71	90.68	68.103		
11,000.00	7,730.00	8,274.38	7,923.68	97.64	44.48	91.93	1,625.87	-1,471.22	6,200.11	6,109.18	90.94	68.181		
11,100.00	7,730.00	8,273.78	7,923.08	97.50	44.48	91.92	1,625.87	-1,471.25	6,226.35	6,135.14	91.21	68.266		
11,200.00	7,730.00	8,273.19	7,922.49	97.36	44.48	91.92	1,625.86	-1,471.27	6,254.07	6,162.58	91.49	68.360		
11,300.00	7,730.00	8,272.60	7,921.90	97.24	44.48	91.91	1,625.86	-1,471.29	6,283.26	6,191.48	91.78	68.462		
11,400.00	7,730.00	8,272.01	7,921.32	97.14	44.48	91.91	1,625.86	-1,471.31	6,313.90	6,221.82	92.08	68.573		
11,500.00	7,730.00	8,271.43	7,920.74	97.06	44.48	91.90	1,625.85	-1,471.33	6,345.97	6,253.59	92.38	68.693		
11,600.00	7,730.00	8,270.85	7,920.16	96.98	44.48	91.89	1,625.85	-1,471.35	6,379.44	6,286.75	92.69	68.822		
11,700.00	7,730.00	8,270.28	7,919.58	96.93	44.47	91.89	1,625.85	-1,471.37	6,414.30	6,321.29	93.01	68.961		
11,800.00	7,730.00	8,269.71	7,919.01	96.90	44.47	91.88	1,625.84	-1,471.39	6,450.52	6,357.18	93.34	69.109		
11,900.00	7,730.00	8,269.14	7,918.45	96.88	44.47	91.88	1,625.84	-1,471.41	6,488.08	6,394.41	93.67	69.267		
12,000.00	7,730.00	8,268.58	7,917.89	96.88	44.47	91.87	1,625.84	-1,471.43	6,526.96	6,432.96	94.00	69.435		
12,100.00	7,730.00	8,268.02	7,917.33	96.90	44.47	91.87	1,625.84	-1,471.45	6,567.13	6,472.79	94.34	69.613		
12,200.00	7,730.00	8,267.47	7,916.77	96.94	44.47	91.86	1,625.83	-1,471.47	6,608.56	6,513.89	94.68	69.801		
12,300.00	7,730.00	8,266.91	7,916.22	97.00	44.47	91.86	1,625.83	-1,471.49	6,651.25	6,556.23	95.02	69.999		
12,400.00	7,730.00	8,266.37	7,915.67	97.08	44.47	91.85	1,625.83	-1,471.51	6,695.15	6,599.79	95.36	70.207		
12,500.00	7,730.00	8,265.82	7,915.13	97.18	44.47	91.85	1,625.82	-1,471.53	6,740.26	6,644.55	95.71	70.425		
12,600.00	7,730.00	8,265.28	7,914.59	97.31	44.46	91.84	1,625.82	-1,471.54	6,786.53	6,690.48	96.05	70.653		
12,700.00	7,730.00	8,264.74	7,914.05	97.46	44.46	91.84	1,625.82	-1,471.56	6,833.96	6,737.56	96.40	70.891		
12,800.00	7,730.00	8,264.21	7,913.52	97.64	44.46	91.83	1,625.81	-1,471.58	6,882.51	6,785.76	96.75	71.139		
12,900.00	7,730.00	8,263.68	7,912.99	97.85	44.46	91.83	1,625.81	-1,471.60	6,932.17	6,835.07	97.09	71.397		
13,000.00	7,730.00	8,263.15	7,912.46	98.09	44.46	91.82	1,625.81	-1,471.62	6,982.90	6,885.46	97.44	71.665		
13,100.00	7,730.00	8,262.63	7,911.94	98.35	44.46	91.82	1,625.81	-1,471.64	7,034.69	6,936.91	97.78	71.942		
13,200.00	7,730.00	8,262.11	7,911.42	98.65	44.46	91.81	1,625.80	-1,471.66	7,087.51	6,989.39	98.13	72.229		
13,300.00	7,730.00	8,261.59	7,910.90	98.98	44.46	91.81	1,625.80	-1,471.67	7,141.34	7,042.88	98.47	72.526		
13,400.00	7,730.00	8,261.07	7,910.38	99.34	44.46	91.80	1,625.80	-1,471.69	7,196.16	7,097.36	98.81	72.831		
13,500.00	7,730.00	8,260.56	7,909.87	99.74	44.46	91.80	1,625.80	-1,471.71	7,251.95	7,152.80	99.14	73.146		
13,600.00	7,730.00	8,260.06	7,909.37	100.17	44.45	91.79	1,625.79	-1,471.73	7,308.67	7,209.19	99.48	73.470		
13,700.00	7,730.00	8,259.55	7,908.86	100.65	44.45	91.79	1,625.79	-1,471.75	7,366.32	7,266.51	99.81	73.803		
13,800.00	7,730.00	8,259.05	7,908.36	101.16	44.45	91.78	1,625.79	-1,471.76	7,424.86	7,324.72	100.14	74.145		
13,900.00	7,730.00	8,258.55	7,907.86	101.71	44.45	91.78	1,625.78	-1,471.78	7,484.29	7,383.82	100.47	74.495		
14,000.00	7,730.00	8,258.06	7,907.37	102.30	44.45	91.77	1,625.78	-1,471.80	7,544.57	7,443.78	100.79	74.854		
14,100.00	7,730.00	8,257.56	7,906.88	102.93	44.45	91.77	1,625.78	-1,471.81	7,605.69	7,504.58	101.11	75.221		
14,200.00	7,730.00	8,257.08	7,906.39	103.60	44.45	91.76	1,625.78	-1,471.83	7,667.62	7,566.19	101.43	75.596		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	8,256.59	7,905.90	104.32	44.45	91.76	1,625.77	-1,471.85	7,730.36	7,628.61	101.74	75.979		
14,400.00	7,730.00	8,256.11	7,905.42	105.07	44.45	91.75	1,625.77	-1,471.87	7,793.87	7,691.81	102.05	76.369		
14,500.00	7,730.00	8,255.63	7,904.94	105.86	44.45	91.75	1,625.77	-1,471.88	7,858.14	7,755.78	102.36	76.768		
14,600.00	7,730.00	8,255.15	7,904.46	106.70	44.44	91.74	1,625.77	-1,471.90	7,923.15	7,820.48	102.67	77.174		
14,700.00	7,730.00	8,254.67	7,903.99	107.57	44.44	91.74	1,625.76	-1,471.92	7,988.88	7,885.92	102.97	77.587		
14,800.00	7,730.00	8,254.20	7,903.52	108.48	44.44	91.73	1,625.76	-1,471.93	8,055.32	7,952.06	103.26	78.007		
14,900.00	7,730.00	8,253.73	7,903.05	109.43	44.44	91.73	1,625.76	-1,471.95	8,122.45	8,018.89	103.56	78.435		
15,000.00	7,730.00	8,253.27	7,902.58	110.42	44.44	91.73	1,625.76	-1,471.96	8,190.25	8,086.40	103.85	78.869		
15,100.00	7,730.00	8,252.81	7,902.12	111.43	44.44	91.72	1,625.76	-1,471.98	8,258.70	8,154.57	104.13	79.310		
15,200.00	7,730.00	8,252.35	7,901.66	112.49	44.44	91.72	1,625.75	-1,472.00	8,327.79	8,223.37	104.41	79.757		
15,300.00	7,730.00	8,251.89	7,901.20	113.57	44.44	91.71	1,625.75	-1,472.01	8,397.50	8,292.81	104.69	80.211		
15,400.00	7,730.00	8,251.43	7,900.75	114.68	44.44	91.71	1,625.75	-1,472.03	8,467.82	8,362.85	104.97	80.671		
15,500.00	7,730.00	8,250.98	7,900.30	115.82	44.44	91.70	1,625.75	-1,472.04	8,538.73	8,433.49	105.24	81.137		
15,600.00	7,730.00	8,250.53	7,899.85	116.99	44.44	91.70	1,625.74	-1,472.06	8,610.22	8,504.71	105.51	81.609		
15,700.00	7,730.00	8,250.08	7,899.40	118.19	44.43	91.70	1,625.74	-1,472.08	8,682.27	8,576.50	105.77	82.087		
15,800.00	7,730.00	8,249.64	7,898.96	119.41	44.43	91.69	1,625.74	-1,472.09	8,754.87	8,648.84	106.03	82.571		
15,900.00	7,730.00	8,249.20	7,898.52	120.65	44.43	91.69	1,625.74	-1,472.11	8,828.01	8,721.72	106.28	83.060		
16,000.00	7,730.00	8,248.76	7,898.08	121.91	44.43	91.68	1,625.74	-1,472.12	8,901.67	8,795.13	106.54	83.554		
16,100.00	7,730.00	8,248.32	7,897.64	123.20	44.43	91.68	1,625.73	-1,472.14	8,975.84	8,869.05	106.79	84.054		
16,200.00	7,730.00	8,247.89	7,897.21	124.50	44.43	91.67	1,625.73	-1,472.15	9,050.50	8,943.47	107.03	84.559		
16,300.00	7,730.00	8,247.46	7,896.78	125.82	44.43	91.67	1,625.73	-1,472.17	9,125.65	9,018.38	107.27	85.069		
16,400.00	7,730.00	8,247.03	7,896.35	127.16	44.43	91.67	1,625.73	-1,472.18	9,201.28	9,093.76	107.51	85.583		
16,500.00	7,730.00	8,246.60	7,895.92	128.52	44.43	91.66	1,625.73	-1,472.20	9,277.36	9,169.61	107.75	86.103		
16,600.00	7,730.00	8,246.18	7,895.50	129.89	44.43	91.66	1,625.72	-1,472.21	9,353.90	9,245.92	107.98	86.627		
16,700.00	7,730.00	8,245.76	7,895.08	131.27	44.43	91.65	1,625.72	-1,472.23	9,430.87	9,322.66	108.21	87.156		
16,800.00	7,730.00	8,245.34	7,894.66	132.67	44.43	91.65	1,625.72	-1,472.24	9,508.28	9,399.84	108.43	87.689		
16,900.00	7,730.00	8,244.92	7,894.24	134.09	44.42	91.65	1,625.72	-1,472.26	9,586.10	9,477.44	108.65	88.226		
17,000.00	7,730.00	8,244.51	7,893.83	135.51	44.42	91.64	1,625.72	-1,472.27	9,664.33	9,555.45	108.87	88.768		
17,100.00	7,730.00	8,244.09	7,893.42	136.95	44.42	91.64	1,625.71	-1,472.28	9,742.95	9,633.87	109.09	89.313		
17,200.00	7,730.00	8,243.68	7,893.01	138.40	44.42	91.63	1,625.71	-1,472.30	9,821.97	9,712.67	109.30	89.863		
17,300.00	7,730.00	8,243.28	7,892.60	139.85	44.42	91.63	1,625.71	-1,472.31	9,901.37	9,791.86	109.51	90.417		
17,400.00	7,730.00	8,242.87	7,892.19	141.32	44.42	91.63	1,625.71	-1,472.33	9,981.13	9,871.42	109.71	90.974		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-33.47	218.57	-144.48	262.13					
100.00	100.00	91.21	91.21	0.13	0.15	-33.45	218.73	-144.49	262.15	261.86	0.28	927.312		
200.00	200.00	189.85	189.85	0.49	0.41	-33.30	219.53	-144.19	262.66	261.76	0.90	290.950 ES		
300.00	300.00	286.03	285.95	0.85	0.76	-32.57	222.49	-142.11	264.07	262.46	1.61	164.094		
400.00	400.00	382.85	382.53	1.21	1.12	-31.25	228.21	-138.49	267.12	264.79	2.32	114.903		
500.00	500.00	478.26	477.38	1.57	1.48	-29.26	236.47	-132.46	271.44	268.39	3.05	89.101		
600.00	599.98	570.54	568.63	1.92	1.86	-92.24	247.72	-124.60	278.34	274.57	3.77	73.818		
700.00	699.84	660.77	657.34	2.28	2.25	-90.19	261.91	-116.18	288.58	284.09	4.50	64.176		
800.00	799.45	755.46	749.92	2.64	2.69	-88.49	279.55	-107.08	301.63	296.37	5.26	57.352		
900.00	898.70	848.07	840.19	3.02	3.14	-87.38	298.16	-98.08	316.05	310.02	6.03	52.398		
1,000.00	997.47	940.40	929.82	3.41	3.60	-86.83	318.65	-89.64	332.49	325.66	6.83	48.680		
1,100.00	1,095.62	1,038.96	1,025.33	3.84	4.11	-86.87	341.48	-81.22	349.88	342.19	7.69	45.493		
1,200.00	1,193.06	1,139.96	1,123.33	4.29	4.63	-87.48	364.29	-72.42	366.54	357.92	8.62	42.537		
1,300.00	1,289.64	1,241.65	1,222.03	4.78	5.16	-88.49	386.72	-62.77	382.40	372.80	9.60	39.842		
1,400.00	1,385.27	1,345.56	1,323.33	5.32	5.68	-90.18	407.98	-53.62	397.29	386.65	10.64	37.336		
1,500.00	1,479.82	1,431.85	1,407.35	5.90	6.12	-91.81	426.26	-46.35	413.49	401.87	11.63	35.567		
1,600.00	1,573.17	1,530.31	1,502.75	6.53	6.64	-93.75	448.77	-37.06	431.45	418.68	12.76	33.800		
1,700.00	1,665.21	1,625.79	1,594.76	7.23	7.17	-95.56	471.79	-26.10	450.32	436.36	13.96	32.252		
1,800.00	1,755.84	1,726.64	1,691.86	7.98	7.74	-97.65	496.04	-13.71	469.79	454.53	15.27	30.769		
1,900.00	1,844.94	1,826.92	1,788.71	8.80	8.28	-100.03	518.98	-1.47	489.74	473.13	16.62	29.469		
2,000.00	1,932.39	1,928.61	1,887.49	9.68	8.82	-102.82	540.05	10.35	510.21	492.21	18.01	28.333		
2,100.00	2,018.11	2,024.55	1,981.26	10.63	9.29	-105.79	557.54	20.52	531.90	512.54	19.36	27.479		
2,200.00	2,101.97	2,115.69	2,070.96	11.65	9.72	-108.94	571.92	27.90	556.59	535.94	20.65	26.955		
2,300.00	2,183.88	2,211.46	2,165.26	12.74	10.15	-112.26	586.28	36.34	583.79	561.83	21.95	26.594		
2,400.00	2,263.74	2,298.95	2,251.32	13.90	10.56	-115.12	599.62	44.77	614.18	590.99	23.19	26.486 SF		
2,431.61	2,288.54	2,325.61	2,277.49	14.29	10.69	-115.94	603.95	47.47	624.59	601.02	23.57	26.496		
2,500.00	2,341.97	2,383.42	2,334.11	15.13	10.96	-118.03	613.92	53.59	648.09	623.70	24.39	26.570		
2,600.00	2,420.08	2,468.00	2,416.81	16.37	11.38	-120.80	629.17	62.58	684.27	658.71	25.56	26.769		
2,700.00	2,498.20	2,557.44	2,504.27	17.63	11.83	-123.48	645.30	72.10	721.96	695.23	26.73	27.011		
2,800.00	2,576.32	2,640.07	2,584.98	18.89	12.24	-125.69	660.66	80.95	761.10	733.29	27.81	27.365		
2,900.00	2,654.43	2,722.29	2,665.15	20.17	12.66	-127.66	676.71	89.56	801.80	772.93	28.87	27.769		
3,000.00	2,732.55	2,846.73	2,786.85	21.45	13.27	-130.47	698.38	103.66	842.21	811.99	30.23	27.864		
3,100.00	2,810.67	2,928.23	2,866.65	22.74	13.66	-132.19	711.26	114.06	881.68	850.49	31.19	28.269		
3,200.00	2,888.78	3,011.98	2,948.51	24.03	14.08	-133.78	725.32	124.76	922.17	890.00	32.17	28.667		
3,300.00	2,966.90	3,126.20	3,059.70	25.33	14.66	-135.64	745.87	140.90	962.44	929.04	33.41	28.811		
3,400.00	3,045.02	3,192.64	3,124.20	26.63	15.02	-136.59	758.60	150.46	1,003.11	968.84	34.27	29.272		
3,500.00	3,123.13	3,272.27	3,201.70	27.94	15.43	-137.68	773.73	160.82	1,045.43	1,010.22	35.21	29.693		
3,600.00	3,201.25	3,358.29	3,285.73	29.24	15.86	-138.85	788.78	171.30	1,088.59	1,052.42	36.17	30.099		
3,700.00	3,279.37	3,435.16	3,360.63	30.55	16.25	-139.77	803.30	180.70	1,132.33	1,095.28	37.06	30.557		
3,800.00	3,357.49	3,512.27	3,435.67	31.86	16.65	-140.59	818.96	189.04	1,177.73	1,139.77	37.96	31.027		
3,900.00	3,435.60	3,622.56	3,543.05	33.18	17.23	-141.71	840.38	202.18	1,222.27	1,183.10	39.17	31.204		
4,000.00	3,513.72	3,714.13	3,631.93	34.49	17.71	-142.51	859.09	213.85	1,266.48	1,226.27	40.22	31.491		
4,100.00	3,591.84	3,801.27	3,716.62	35.81	18.17	-143.26	876.23	225.16	1,310.59	1,269.38	41.21	31.803		
4,200.00	3,669.95	3,885.02	3,798.03	37.12	18.61	-143.92	892.95	235.46	1,355.49	1,313.33	42.17	32.144		
4,300.00	3,748.07	3,985.14	3,894.68	38.44	19.16	-144.55	915.17	249.19	1,399.43	1,356.08	43.34	32.287		
4,400.00	3,826.19	4,041.23	3,948.98	39.76	19.47	-144.90	927.40	256.11	1,444.73	1,400.68	44.05	32.797		
4,500.00	3,904.30	4,123.22	4,028.69	41.08	19.90	-145.43	944.45	264.88	1,491.49	1,446.50	45.00	33.148		
4,600.00	3,982.42	4,201.33	4,104.68	42.40	20.30	-145.91	960.52	273.11	1,538.51	1,492.62	45.89	33.527		
4,700.00	4,060.54	4,288.52	4,189.73	43.72	20.75	-146.46	977.73	281.67	1,586.21	1,539.36	46.86	33.853		
4,800.00	4,138.66	4,406.21	4,304.91	45.05	21.33	-147.24	998.27	294.32	1,633.13	1,585.06	48.07	33.977		
4,900.00	4,216.77	4,483.01	4,380.19	46.37	21.69	-147.77	1,010.59	303.33	1,679.26	1,630.40	48.86	34.371		
5,000.00	4,294.89	4,546.29	4,442.33	47.69	21.99	-148.19	1,020.53	309.95	1,726.60	1,677.10	49.51	34.877		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY		Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	4,373.01	4,605.19	4,500.38	49.02	22.26	-148.60	1,029.01	315.19	1,775.38	1,725.30	50.08	35.450				
5,200.00	4,451.12	4,667.50	4,562.02	50.34	22.52	-149.05	1,036.81	319.83	1,825.52	1,774.87	50.64	36.047				
5,300.00	4,529.24	4,727.84	4,621.92	51.67	22.75	-149.53	1,043.00	323.57	1,876.85	1,825.71	51.14	36.697				
5,400.00	4,607.36	4,783.85	4,677.66	52.99	22.96	-149.99	1,047.75	326.26	1,929.51	1,877.94	51.57	37.416				
5,500.00	4,685.47	4,843.36	4,737.00	54.32	23.16	-150.50	1,051.85	328.33	1,983.46	1,931.47	51.99	38.149				
5,600.00	4,763.59	4,904.76	4,798.29	55.64	23.36	-151.03	1,055.21	329.85	2,038.46	1,986.05	52.41	38.895				
5,700.00	4,841.71	4,969.61	4,863.08	56.97	23.56	-151.60	1,057.52	330.94	2,094.36	2,041.54	52.82	39.652				
5,800.00	4,919.83	5,045.66	4,939.12	58.30	23.77	-152.29	1,058.87	331.84	2,150.92	2,097.62	53.29	40.361				
5,900.00	4,997.94	5,122.46	5,015.90	59.62	23.98	-152.97	1,059.85	332.78	2,207.71	2,153.95	53.76	41.064				
6,000.00	5,076.06	5,177.00	5,070.44	60.95	24.13	-153.45	1,059.94	333.36	2,265.01	2,210.96	54.05	41.904				
6,100.00	5,154.18	5,236.71	5,130.15	62.28	24.28	-153.95	1,059.97	333.43	2,323.25	2,268.87	54.38	42.723				
6,200.00	5,232.29	5,290.95	5,184.39	63.61	24.42	-154.39	1,060.41	332.68	2,382.72	2,328.05	54.67	43.582				
6,300.00	5,310.41	5,361.92	5,255.34	64.93	24.60	-154.93	1,061.11	331.34	2,442.78	2,387.67	55.11	44.323				
6,400.00	5,388.53	5,448.23	5,341.63	66.26	24.82	-155.55	1,061.99	329.75	2,502.97	2,447.28	55.69	44.944				
6,500.00	5,466.64	5,531.79	5,425.18	67.59	25.04	-156.14	1,062.69	328.48	2,563.07	2,506.82	56.25	45.567				
6,600.00	5,544.76	5,599.21	5,492.59	68.92	25.22	-156.59	1,062.96	327.50	2,623.33	2,566.66	56.67	46.290				
6,700.00	5,622.88	5,668.01	5,561.38	70.25	25.39	-157.05	1,062.98	326.15	2,684.13	2,627.02	57.11	47.002				
6,800.00	5,701.00	5,751.93	5,645.28	71.58	25.61	-157.58	1,063.02	324.60	2,744.99	2,687.31	57.67	47.596				
6,900.00	5,779.11	5,826.25	5,719.59	72.91	25.80	-158.03	1,063.17	323.24	2,805.94	2,747.77	58.17	48.237				
7,000.00	5,857.23	5,940.12	5,833.44	74.23	26.10	-158.68	1,063.73	321.76	2,866.59	2,807.57	59.01	48.577				
7,100.00	5,935.35	5,989.94	5,883.26	75.56	26.24	-158.95	1,063.96	321.09	2,927.30	2,867.97	59.32	49.344				
7,200.00	6,013.46	6,075.61	5,968.92	76.89	26.47	-159.40	1,064.19	319.69	2,988.44	2,928.51	59.94	49.859				
7,300.00	6,091.58	6,169.06	6,062.37	78.22	26.72	-159.88	1,064.34	318.85	3,049.10	2,988.48	60.62	50.299				
7,400.00	6,169.70	6,238.08	6,131.39	79.55	26.91	-160.22	1,064.50	318.32	3,109.77	3,048.66	61.11	50.892				
7,500.00	6,247.81	6,299.00	6,192.30	80.88	27.08	-160.51	1,064.68	317.48	3,170.96	3,109.43	61.53	51.536				
7,600.00	6,325.93	6,386.73	6,280.02	82.21	27.32	-160.91	1,064.92	316.19	3,232.33	3,170.15	62.18	51.981				
7,700.00	6,404.05	6,472.97	6,366.25	83.54	27.56	-161.29	1,065.03	315.27	3,293.48	3,230.65	62.83	52.422				
7,800.00	6,482.17	6,606.64	6,499.91	84.87	27.92	-161.88	1,063.94	315.48	3,353.84	3,290.01	63.84	52.538				
7,900.00	6,560.28	6,686.53	6,579.79	86.20	28.13	-162.24	1,062.74	316.36	3,413.71	3,349.30	64.41	53.002				
8,000.00	6,638.40	6,756.28	6,649.53	87.53	28.32	-162.53	1,061.86	317.01	3,473.75	3,408.85	64.91	53.519				
8,100.00	6,716.52	6,832.37	6,725.62	88.86	28.53	-162.83	1,061.18	317.53	3,534.01	3,468.54	65.47	53.981				
8,200.00	6,794.63	6,923.07	6,816.31	90.20	28.79	-163.18	1,060.71	318.17	3,594.25	3,528.10	66.16	54.328				
8,300.00	6,872.75	7,006.83	6,900.07	91.53	29.03	-163.48	1,060.76	318.98	3,654.27	3,587.46	66.81	54.697				
8,400.00	6,950.87	7,084.15	6,977.38	92.86	29.26	-163.73	1,061.39	319.60	3,714.35	3,646.93	67.42	55.091				
8,500.00	7,028.98	7,172.60	7,065.82	94.19	29.53	-164.02	1,062.06	320.33	3,774.47	3,706.34	68.13	55.398				
8,600.00	7,107.10	7,322.68	7,215.87	95.52	29.99	-164.48	1,063.53	323.10	3,833.89	3,764.53	69.36	55.276				
8,647.91	7,144.53	7,363.94	7,257.11	96.16	30.12	-164.60	1,063.80	324.36	3,861.91	3,792.22	69.69	55.417				
8,650.00	7,146.16	7,365.58	7,258.75	96.18	30.12	-165.01	1,063.81	324.41	3,863.13	3,793.43	69.70	55.424				
8,700.00	7,185.66	7,405.22	7,298.37	96.84	30.25	-174.81	1,063.96	325.64	3,892.20	3,822.18	70.02	55.588				
8,750.00	7,225.78	7,441.97	7,335.10	97.47	30.36	175.14	1,064.04	326.78	3,920.77	3,850.45	70.32	55.759				
8,800.00	7,266.21	7,476.40	7,369.52	98.08	30.47	165.08	1,064.27	327.75	3,948.68	3,878.08	70.60	55.931				
8,850.00	7,306.63	7,510.65	7,403.76	98.64	30.57	155.26	1,064.67	328.62	3,975.74	3,904.85	70.88	56.087				
8,900.00	7,346.75	7,554.45	7,447.54	99.17	30.71	146.00	1,065.35	329.67	4,001.72	3,930.46	71.25	56.161				
8,950.00	7,386.25	7,598.95	7,492.02	99.64	30.86	137.48	1,066.13	330.77	4,026.39	3,954.76	71.63	56.208				
9,000.00	7,424.84	7,642.29	7,535.33	100.06	31.00	129.80	1,066.90	331.88	4,049.63	3,977.62	72.00	56.241				
9,050.00	7,462.22	7,684.35	7,577.37	100.42	31.13	123.01	1,067.53	333.03	4,071.30	3,998.93	72.37	56.257				
9,100.00	7,498.11	7,715.40	7,608.41	100.74	31.23	117.00	1,067.92	333.91	4,091.35	4,018.70	72.65	56.317				
9,150.00	7,532.24	7,737.20	7,630.20	100.99	31.30	111.73	1,068.14	334.48	4,109.79	4,036.93	72.86	56.407				
9,200.00	7,564.34	7,757.65	7,650.65	101.19	31.36	107.21	1,068.33	334.95	4,126.56	4,053.48	73.07	56.472				
9,250.00	7,594.17	7,776.63	7,669.62	101.34	31.42	103.36	1,068.47	335.34	4,141.57	4,068.29	73.29	56.512				
9,300.00	7,621.50	7,797.00	7,689.99	101.45	31.49	100.16	1,068.59	335.71	4,154.78	4,081.25	73.53	56.502				
9,350.00	7,646.13	7,811.94	7,704.92	101.50	31.53	97.46	1,068.67	335.95	4,166.12	4,092.37	73.76	56.486				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,828.20	7,721.19	101.51	31.58	95.30	1,068.75	336.19	4,175.55	4,101.53	74.01	56.415		
9,450.00	7,686.55	7,842.13	7,735.11	101.48	31.62	93.58	1,068.82	336.38	4,183.04	4,108.76	74.28	56.312		
9,500.00	7,702.04	7,853.61	7,746.59	101.42	31.66	92.26	1,068.88	336.52	4,188.58	4,114.02	74.56	56.175		
9,550.00	7,714.20	7,862.58	7,755.56	101.33	31.69	91.33	1,068.93	336.63	4,192.17	4,117.31	74.85	56.004		
9,600.00	7,722.96	7,868.97	7,761.95	101.20	31.71	90.75	1,068.96	336.70	4,193.79	4,118.63	75.16	55.797		
9,650.00	7,728.24	7,872.75	7,765.73	101.06	31.72	90.52	1,068.98	336.74	4,193.47	4,117.99	75.48	55.555		
9,699.97	7,730.00	7,873.88	7,766.86	100.90	31.72	90.61	1,068.99	336.75	4,191.20	4,115.38	75.82	55.279		
9,800.00	7,730.00	7,873.49	7,766.47	100.56	31.72	90.61	1,068.98	336.74	4,185.93	4,109.40	76.53	54.699		
9,900.00	7,730.00	7,873.10	7,766.08	100.24	31.72	90.60	1,068.98	336.74	4,183.04	4,105.77	77.27	54.136		
9,970.86	7,730.00	7,872.82	7,765.80	100.02	31.72	90.60	1,068.98	336.74	4,182.44	4,104.62	77.82	53.744		
10,000.00	7,730.00	7,872.71	7,765.69	99.93	31.72	90.60	1,068.98	336.74	4,182.54	4,104.50	78.04	53.592		
10,100.00	7,730.00	7,872.32	7,765.30	99.64	31.72	90.59	1,068.98	336.73	4,184.43	4,105.59	78.84	53.072		
10,200.00	7,730.00	7,871.93	7,764.91	99.36	31.72	90.59	1,068.98	336.73	4,188.71	4,109.04	79.67	52.577		
10,300.00	7,730.00	7,871.54	7,764.52	99.09	31.72	90.58	1,068.97	336.72	4,195.37	4,114.86	80.51	52.109		
10,400.00	7,730.00	7,871.15	7,764.13	98.84	31.71	90.58	1,068.97	336.72	4,204.40	4,123.03	81.37	51.670		
10,500.00	7,730.00	7,870.76	7,763.74	98.61	31.71	90.57	1,068.97	336.72	4,215.78	4,133.54	82.24	51.262		
10,600.00	7,730.00	7,870.37	7,763.35	98.39	31.71	90.57	1,068.97	336.71	4,229.49	4,146.38	83.12	50.887		
10,700.00	7,730.00	7,869.98	7,762.96	98.18	31.71	90.56	1,068.97	336.71	4,245.52	4,161.52	84.00	50.545		
10,800.00	7,730.00	7,869.59	7,762.57	97.99	31.71	90.56	1,068.96	336.70	4,263.83	4,178.96	84.87	50.237		
10,900.00	7,730.00	7,869.20	7,762.18	97.81	31.71	90.55	1,068.96	336.70	4,284.40	4,198.65	85.75	49.963		
11,000.00	7,730.00	7,868.81	7,761.79	97.64	31.71	90.55	1,068.96	336.70	4,307.19	4,220.57	86.62	49.725		
11,100.00	7,730.00	7,868.42	7,761.40	97.50	31.71	90.54	1,068.96	336.69	4,332.17	4,244.69	87.48	49.521		
11,200.00	7,730.00	7,868.03	7,761.01	97.36	31.70	90.53	1,068.96	336.69	4,359.31	4,270.98	88.33	49.352		
11,300.00	7,730.00	7,867.65	7,760.63	97.24	31.70	90.53	1,068.95	336.68	4,388.55	4,299.38	89.17	49.218		
11,400.00	7,730.00	7,867.26	7,760.24	97.14	31.70	90.52	1,068.95	336.68	4,419.86	4,329.88	89.99	49.118		
11,500.00	7,730.00	7,866.87	7,759.85	97.06	31.70	90.52	1,068.95	336.67	4,453.20	4,362.42	90.79	49.051		
11,600.00	7,730.00	7,866.48	7,759.46	96.98	31.70	90.51	1,068.95	336.67	4,488.52	4,396.95	91.57	49.017		
11,700.00	7,730.00	7,866.09	7,759.07	96.93	31.70	90.51	1,068.95	336.67	4,525.78	4,433.44	92.33	49.016		
11,800.00	7,730.00	7,865.70	7,758.68	96.90	31.70	90.50	1,068.94	336.66	4,564.92	4,471.84	93.07	49.046		
11,900.00	7,730.00	7,865.31	7,758.29	96.88	31.70	90.50	1,068.94	336.66	4,605.90	4,512.10	93.79	49.107		
12,000.00	7,730.00	7,864.92	7,757.90	96.88	31.70	90.49	1,068.94	336.65	4,648.67	4,554.18	94.49	49.197		
12,100.00	7,730.00	7,864.53	7,757.51	96.90	31.69	90.49	1,068.94	336.65	4,693.18	4,598.02	95.16	49.317		
12,200.00	7,730.00	7,864.14	7,757.12	96.94	31.69	90.48	1,068.93	336.64	4,739.38	4,643.57	95.81	49.464		
12,300.00	7,730.00	7,863.76	7,756.74	97.00	31.69	90.48	1,068.93	336.64	4,787.23	4,690.79	96.44	49.639		
12,400.00	7,730.00	7,863.37	7,756.35	97.08	31.69	90.47	1,068.93	336.63	4,836.67	4,739.63	97.05	49.839		
12,500.00	7,730.00	7,862.98	7,755.96	97.18	31.69	90.47	1,068.93	336.63	4,887.66	4,790.03	97.63	50.065		
12,600.00	7,730.00	7,862.59	7,755.57	97.31	31.69	90.46	1,068.93	336.63	4,940.14	4,841.96	98.18	50.315		
12,700.00	7,730.00	7,862.20	7,755.18	97.46	31.69	90.45	1,068.92	336.62	4,994.08	4,895.36	98.72	50.589		
12,800.00	7,730.00	7,861.81	7,754.79	97.64	31.69	90.45	1,068.92	336.62	5,049.42	4,950.19	99.23	50.885		
12,900.00	7,730.00	7,861.42	7,754.40	97.85	31.68	90.44	1,068.92	336.61	5,106.12	5,006.40	99.72	51.203		
13,000.00	7,730.00	7,861.03	7,754.01	98.09	31.68	90.44	1,068.92	336.61	5,164.14	5,063.94	100.19	51.542		
13,100.00	7,730.00	7,860.65	7,753.63	98.35	31.68	90.43	1,068.92	336.60	5,223.42	5,122.78	100.64	51.901		
13,200.00	7,730.00	7,860.26	7,753.24	98.65	31.68	90.43	1,068.91	336.60	5,283.93	5,182.86	101.07	52.279		
13,300.00	7,730.00	7,859.87	7,752.85	98.98	31.68	90.42	1,068.91	336.59	5,345.63	5,244.15	101.48	52.676		
13,400.00	7,730.00	7,859.48	7,752.46	99.34	31.68	90.42	1,068.91	336.59	5,408.47	5,306.60	101.87	53.090		
13,500.00	7,730.00	7,859.09	7,752.07	99.74	31.68	90.41	1,068.91	336.59	5,472.42	5,370.17	102.25	53.522		
13,600.00	7,730.00	7,858.70	7,751.68	100.17	31.68	90.41	1,068.91	336.58	5,537.43	5,434.83	102.60	53.970		
13,700.00	7,730.00	7,858.31	7,751.29	100.65	31.67	90.40	1,068.90	336.58	5,603.48	5,500.54	102.94	54.434		
13,800.00	7,730.00	7,857.93	7,750.91	101.16	31.67	90.40	1,068.90	336.57	5,670.52	5,567.26	103.26	54.913		
13,900.00	7,730.00	7,857.54	7,750.52	101.71	31.67	90.39	1,068.90	336.57	5,738.52	5,634.95	103.57	55.407		
14,000.00	7,730.00	7,857.15	7,750.13	102.30	31.67	90.39	1,068.90	336.56	5,807.45	5,703.58	103.86	55.914		
14,100.00	7,730.00	7,856.76	7,749.74	102.93	31.67	90.38	1,068.90	336.56	5,877.26	5,773.12	104.14	56.435		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,856.37	7,749.35	103.60	31.67	90.37	1,068.89	336.55	5,947.94	5,843.54	104.41	56.969		
14,300.00	7,730.00	7,855.98	7,748.96	104.32	31.67	90.37	1,068.89	336.55	6,019.46	5,914.80	104.66	57.515		
14,400.00	7,730.00	7,855.60	7,748.58	105.07	31.67	90.36	1,068.89	336.54	6,091.77	5,986.87	104.90	58.073		
14,500.00	7,730.00	7,855.21	7,748.19	105.86	31.67	90.36	1,068.89	336.54	6,164.86	6,059.73	105.13	58.643		
14,600.00	7,730.00	7,854.82	7,747.80	106.70	31.66	90.35	1,068.89	336.54	6,238.69	6,133.35	105.34	59.223		
14,700.00	7,730.00	7,854.43	7,747.41	107.57	31.66	90.35	1,068.88	336.53	6,313.25	6,207.70	105.55	59.814		
14,800.00	7,730.00	7,854.04	7,747.02	108.48	31.66	90.34	1,068.88	336.53	6,388.50	6,282.75	105.74	60.415		
14,900.00	7,730.00	7,853.65	7,746.63	109.43	31.66	90.34	1,068.88	336.52	6,464.42	6,358.49	105.93	61.025		
15,000.00	7,730.00	7,853.27	7,746.25	110.42	31.66	90.33	1,068.88	336.52	6,540.99	6,434.88	106.11	61.645		
15,100.00	7,730.00	7,852.88	7,745.86	111.43	31.66	90.33	1,068.88	336.51	6,618.18	6,511.91	106.28	62.274		
15,200.00	7,730.00	7,852.49	7,745.47	112.49	31.66	90.32	1,068.87	336.51	6,695.98	6,589.54	106.44	62.911		
15,300.00	7,730.00	7,852.10	7,745.08	113.57	31.66	90.32	1,068.87	336.50	6,774.36	6,667.77	106.59	63.557		
15,400.00	7,730.00	7,851.71	7,744.69	114.68	31.65	90.31	1,068.87	336.50	6,853.30	6,746.57	106.73	64.210		
15,500.00	7,730.00	7,851.33	7,744.31	115.82	31.65	90.31	1,068.87	336.49	6,932.79	6,825.92	106.87	64.872		
15,600.00	7,730.00	7,850.94	7,743.92	116.99	31.65	90.30	1,068.87	336.49	7,012.80	6,905.80	107.00	65.540		
15,700.00	7,730.00	7,850.55	7,743.53	118.19	31.65	90.29	1,068.86	336.48	7,093.32	6,986.19	107.12	66.216		
15,800.00	7,730.00	7,850.16	7,743.14	119.41	31.65	90.29	1,068.86	336.48	7,174.33	7,067.08	107.24	66.898		
15,900.00	7,730.00	7,849.77	7,742.76	120.65	31.65	90.28	1,068.86	336.47	7,255.81	7,148.45	107.36	67.587		
16,000.00	7,730.00	7,849.39	7,742.37	121.91	31.65	90.28	1,068.86	336.47	7,337.75	7,230.29	107.46	68.282		
16,100.00	7,730.00	7,849.00	7,741.98	123.20	31.65	90.27	1,068.86	336.46	7,420.13	7,312.57	107.56	68.983		
16,200.00	7,730.00	7,848.61	7,741.59	124.50	31.64	90.27	1,068.85	336.46	7,502.94	7,395.28	107.66	69.690		
16,300.00	7,730.00	7,848.22	7,741.20	125.82	31.64	90.26	1,068.85	336.45	7,586.17	7,478.42	107.75	70.402		
16,400.00	7,730.00	7,847.84	7,740.82	127.16	31.64	90.26	1,068.85	336.45	7,669.80	7,561.95	107.84	71.120		
16,500.00	7,730.00	7,847.45	7,740.43	128.52	31.64	90.25	1,068.85	336.45	7,753.81	7,645.88	107.93	71.843		
16,600.00	7,730.00	7,847.06	7,740.04	129.89	31.64	90.25	1,068.85	336.44	7,838.20	7,730.19	108.01	72.571		
16,700.00	7,730.00	7,846.67	7,739.65	131.27	31.64	90.24	1,068.84	336.44	7,922.95	7,814.87	108.08	73.304		
16,800.00	7,730.00	7,846.28	7,739.27	132.67	31.64	90.24	1,068.84	336.43	8,008.06	7,899.90	108.16	74.041		
16,900.00	7,730.00	7,845.90	7,738.88	134.09	31.64	90.23	1,068.84	336.43	8,093.50	7,985.28	108.23	74.783		
17,000.00	7,730.00	7,845.51	7,738.49	135.51	31.64	90.23	1,068.84	336.42	8,179.28	8,070.98	108.29	75.528		
17,100.00	7,730.00	7,845.12	7,738.10	136.95	31.63	90.22	1,068.84	336.42	8,265.37	8,157.01	108.36	76.278		
17,200.00	7,730.00	7,844.73	7,737.72	138.40	31.63	90.22	1,068.83	336.41	8,351.78	8,243.36	108.42	77.032		
17,300.00	7,730.00	7,844.35	7,737.33	139.85	31.63	90.21	1,068.83	336.41	8,438.48	8,330.00	108.48	77.790		
17,400.00	7,730.00	7,843.96	7,736.94	141.32	31.63	90.20	1,068.83	336.40	8,525.48	8,416.94	108.53	78.551		
17,500.00	7,730.00	7,843.57	7,736.55	142.80	31.63	90.20	1,068.83	336.40	8,612.76	8,504.17	108.59	79.316		
17,600.00	7,730.00	7,843.18	7,736.17	144.28	31.63	90.19	1,068.83	336.39	8,700.31	8,591.67	108.64	80.084		
17,700.00	7,730.00	7,842.80	7,735.78	145.78	31.63	90.19	1,068.82	336.39	8,788.13	8,679.44	108.69	80.856		
17,800.00	7,730.00	7,842.41	7,735.39	147.28	31.63	90.18	1,068.82	336.38	8,876.20	8,767.47	108.74	81.630		
17,900.00	7,730.00	7,842.02	7,735.00	148.79	31.62	90.18	1,068.82	336.38	8,964.53	8,855.75	108.78	82.408		
18,000.00	7,730.00	7,841.64	7,734.62	150.31	31.62	90.17	1,068.82	336.37	9,053.10	8,944.27	108.83	83.189		
18,100.00	7,730.00	7,841.25	7,734.23	151.83	31.62	90.17	1,068.82	336.37	9,141.90	9,033.03	108.87	83.972		
18,200.00	7,730.00	7,840.86	7,733.84	153.37	31.62	90.16	1,068.81	336.36	9,230.93	9,122.02	108.91	84.758		
18,300.00	7,730.00	7,840.47	7,733.46	154.90	31.62	90.16	1,068.81	336.36	9,320.19	9,211.24	108.95	85.546		
18,400.00	7,730.00	7,840.09	7,733.07	156.45	31.62	90.15	1,068.81	336.35	9,409.66	9,300.67	108.99	86.337		
18,500.00	7,730.00	7,839.70	7,732.68	158.00	31.62	90.15	1,068.81	336.35	9,499.34	9,390.32	109.02	87.130		
18,600.00	7,730.00	7,839.31	7,732.29	159.55	31.62	90.14	1,068.81	336.34	9,589.23	9,480.17	109.06	87.926		
18,700.00	7,730.00	7,838.93	7,731.91	161.11	31.62	90.14	1,068.80	336.34	9,679.31	9,570.22	109.10	88.723		
18,800.00	7,730.00	7,838.54	7,731.52	162.68	31.61	90.13	1,068.80	336.33	9,769.59	9,660.46	109.13	89.523		
18,900.00	7,730.00	7,838.15	7,731.13	164.25	31.61	90.13	1,068.80	336.32	9,860.06	9,750.89	109.16	90.325		
19,000.00	7,730.00	7,837.76	7,730.75	165.83	31.61	90.12	1,068.80	336.32	9,950.70	9,841.51	109.19	91.129		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-27.48	218.57	-113.68	246.50				
100.00	100.00	90.96	90.96	0.13	0.15	-27.46	218.78	-113.69	246.56	246.28	0.28	872.834	
200.00	200.00	190.36	190.36	0.49	0.41	-27.41	219.42	-113.76	247.16	246.25	0.90	273.149	
300.00	300.00	290.03	290.03	0.85	0.77	-27.37	220.12	-113.94	247.87	246.25	1.62	152.967	
400.00	400.00	394.20	394.19	1.21	1.13	-27.29	220.48	-113.77	248.11	245.77	2.34	105.938	
500.00	500.00	503.52	503.46	1.57	1.51	-27.13	218.19	-111.80	245.43	242.36	3.07	79.853	
600.00	599.98	613.55	613.22	1.92	1.89	-92.65	212.40	-106.82	238.77	234.96	3.81	62.687	
700.00	699.84	723.27	722.18	2.28	2.30	-93.42	203.14	-98.06	227.84	223.30	4.54	50.135	
800.00	799.45	831.71	829.15	2.64	2.74	-94.66	191.17	-84.98	212.97	207.69	5.28	40.323	
900.00	898.70	937.40	932.49	3.02	3.21	-96.67	176.52	-68.40	194.22	188.20	6.02	32.264	
1,000.00	997.47	1,036.29	1,028.65	3.41	3.69	-99.71	161.56	-50.78	173.97	167.20	6.77	25.710	
1,100.00	1,095.62	1,136.06	1,125.35	3.84	4.19	-104.81	145.40	-32.33	153.68	146.16	7.52	20.445	
1,200.00	1,193.06	1,229.97	1,216.51	4.29	4.67	-112.12	130.60	-15.32	136.46	128.16	8.30	16.442	
1,300.00	1,289.64	1,324.95	1,309.05	4.78	5.16	-122.50	116.23	0.55	125.33	116.22	9.11	13.759	
1,381.25	1,367.42	1,402.37	1,384.58	5.22	5.55	-132.83	104.53	12.86	122.23	112.42	9.81	12.461 CC	
1,400.00	1,385.27	1,420.53	1,402.29	5.32	5.64	-135.39	101.76	15.74	122.38	112.40	9.97	12.270 ES	
1,500.00	1,479.82	1,516.81	1,496.06	5.90	6.14	-149.12	86.68	31.55	128.63	117.72	10.91	11.794 SF	
1,600.00	1,573.17	1,611.54	1,588.01	6.53	6.64	-161.69	70.85	47.97	144.36	132.47	11.89	12.139	
1,700.00	1,665.21	1,704.34	1,678.09	7.23	7.14	-171.57	55.60	64.22	169.10	156.22	12.88	13.129	
1,800.00	1,755.84	1,795.62	1,766.87	7.98	7.62	-178.72	41.24	79.83	201.13	187.28	13.84	14.528	
1,900.00	1,844.94	1,885.08	1,854.04	8.80	8.09	-176.22	27.53	94.55	238.97	224.19	14.78	16.166	
2,000.00	1,932.39	1,972.87	1,939.94	9.68	8.53	-172.88	15.12	107.77	281.72	266.03	15.69	17.957	
2,100.00	2,018.11	2,061.99	2,027.48	10.63	8.97	-170.71	4.02	120.25	328.12	311.53	16.58	19.785	
2,200.00	2,101.97	2,140.36	2,104.63	11.65	9.33	-169.37	-5.50	130.13	378.62	361.24	17.38	21.787	
2,300.00	2,183.88	2,222.60	2,185.54	12.74	9.72	-168.19	-16.51	139.94	433.19	414.97	18.22	23.771	
2,400.00	2,263.74	2,304.72	2,265.95	13.90	10.13	-166.98	-29.14	150.79	490.72	471.61	19.11	25.681	
2,431.61	2,288.54	2,330.37	2,290.98	14.29	10.26	-166.59	-33.41	154.45	509.46	490.07	19.40	26.268	
2,500.00	2,341.97	2,387.87	2,347.01	15.13	10.56	-165.99	-43.16	162.94	550.20	530.17	20.04	27.458	
2,600.00	2,420.08	2,474.32	2,431.25	16.37	11.02	-165.26	-57.34	176.16	609.23	588.22	21.01	28.997	
2,700.00	2,498.20	2,562.93	2,517.67	17.63	11.48	-164.70	-70.94	190.29	667.37	645.35	22.01	30.319	
2,800.00	2,576.32	2,652.22	2,604.64	18.89	11.95	-164.20	-84.27	205.48	724.63	701.60	23.03	31.463	
2,900.00	2,654.43	2,739.96	2,690.17	20.17	12.41	-163.84	-96.45	220.77	781.12	757.08	24.04	32.495	
3,000.00	2,732.55	2,819.99	2,768.21	21.45	12.83	-163.56	-107.27	234.81	837.38	812.41	24.97	33.536	
3,100.00	2,810.67	2,887.15	2,833.73	22.74	13.18	-163.36	-116.88	245.98	894.64	868.87	25.77	34.717	
3,200.00	2,888.78	2,965.72	2,910.39	24.03	13.59	-163.13	-128.76	258.45	952.80	926.10	26.70	35.692	
3,300.00	2,966.90	3,047.95	2,990.55	25.33	14.03	-162.90	-141.48	271.70	1,011.00	983.32	27.67	36.534	
3,400.00	3,045.02	3,125.09	3,065.66	26.63	14.43	-162.68	-153.70	284.35	1,069.21	1,040.60	28.60	37.382	
3,500.00	3,123.13	3,205.48	3,144.05	27.94	14.86	-162.50	-166.34	296.85	1,127.91	1,098.35	29.56	38.152	
3,600.00	3,201.25	3,297.60	3,234.06	29.24	15.33	-162.37	-179.64	311.30	1,185.86	1,155.21	30.65	38.696	
3,700.00	3,279.37	3,373.66	3,308.42	30.55	15.72	-162.29	-190.44	323.09	1,243.82	1,212.28	31.55	39.429	
3,800.00	3,357.49	3,453.76	3,386.69	31.86	16.13	-162.20	-202.09	335.47	1,301.99	1,269.50	32.50	40.065	
3,900.00	3,435.60	3,534.20	3,465.30	33.18	16.55	-162.12	-213.87	347.89	1,360.24	1,326.78	33.45	40.659	
4,000.00	3,513.72	3,615.28	3,544.57	34.49	16.96	-162.05	-225.58	360.22	1,418.51	1,384.10	34.42	41.215	
4,100.00	3,591.84	3,696.91	3,624.44	35.81	17.37	-162.00	-237.14	372.47	1,476.79	1,441.41	35.38	41.742	
4,200.00	3,669.95	3,782.34	3,708.24	37.12	17.80	-162.00	-248.42	384.73	1,534.98	1,498.61	36.37	42.204	
4,300.00	3,748.07	3,872.83	3,796.76	38.44	18.26	-161.95	-260.91	398.69	1,592.80	1,555.37	37.44	42.546	
4,400.00	3,826.19	3,963.35	3,885.04	39.76	18.73	-161.86	-274.02	413.84	1,650.13	1,611.61	38.53	42.832	
4,500.00	3,904.30	4,051.90	3,971.69	41.08	19.18	-161.83	-285.44	428.01	1,707.12	1,667.55	39.57	43.140	
4,600.00	3,982.42	4,132.41	4,050.43	42.40	19.60	-161.81	-295.81	441.22	1,763.85	1,723.32	40.53	43.517	
4,700.00	4,060.54	4,189.18	4,105.72	43.72	19.90	-161.74	-304.32	450.82	1,821.33	1,780.08	41.25	44.151	
4,800.00	4,138.66	4,256.32	4,170.92	45.05	20.26	-161.63	-315.65	462.16	1,879.80	1,837.69	42.10	44.647	
4,900.00	4,216.77	4,322.39	4,235.31	46.37	20.61	-161.57	-326.29	472.49	1,938.69	1,895.76	42.93	45.164	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,373.90	4,285.76	47.69	20.86	161.56	-334.11	479.33	1,998.57	1,955.03	43.54	45.900		
5,100.00	4,373.01	4,451.88	4,362.53	49.02	21.23	161.62	-344.89	487.73	2,059.31	2,014.89	44.42	46.358		
5,200.00	4,451.12	4,532.56	4,442.32	50.34	21.58	161.76	-354.08	495.32	2,119.66	2,074.38	45.29	46.807		
5,300.00	4,529.24	4,603.16	4,512.38	51.67	21.87	161.93	-361.00	500.66	2,180.37	2,134.36	46.01	47.392		
5,400.00	4,607.36	4,685.16	4,593.90	52.99	22.18	162.16	-368.02	505.96	2,241.16	2,194.34	46.81	47.873		
5,500.00	4,685.47	4,765.53	4,673.94	54.32	22.48	162.41	-373.85	510.42	2,301.89	2,254.32	47.58	48.383		
5,600.00	4,763.59	4,837.86	4,746.07	55.64	22.73	162.67	-378.09	513.54	2,362.73	2,314.50	48.23	48.986		
5,700.00	4,841.71	4,904.07	4,812.18	56.97	22.94	162.93	-381.20	515.48	2,423.91	2,375.09	48.81	49.655		
5,800.00	4,919.83	4,965.62	4,873.65	58.30	23.14	163.17	-384.14	516.84	2,485.60	2,436.26	49.35	50.369		
5,900.00	4,997.94	5,020.06	4,928.01	59.62	23.31	163.38	-386.85	517.58	2,547.97	2,498.16	49.81	51.153		
6,000.00	5,076.06	5,076.08	4,983.95	60.95	23.48	163.59	-389.80	517.81	2,611.07	2,560.79	50.28	51.926		
6,100.00	5,154.18	5,135.03	5,042.79	62.28	23.67	163.81	-393.35	517.89	2,674.75	2,623.97	50.79	52.667		
6,200.00	5,232.29	5,303.51	5,211.16	63.61	24.16	164.46	-398.77	518.69	2,736.40	2,684.21	52.19	52.431		
6,300.00	5,310.41	5,377.02	5,284.67	64.93	24.35	164.77	-399.22	518.49	2,797.90	2,745.14	52.76	53.032		
6,400.00	5,388.53	5,451.08	5,358.72	66.26	24.54	165.09	-399.30	517.92	2,859.55	2,806.23	53.32	53.630		
6,500.00	5,466.64	5,522.62	5,430.26	67.59	24.72	165.38	-399.41	517.23	2,921.39	2,867.53	53.86	54.241		
6,600.00	5,544.76	5,599.46	5,507.10	68.92	24.91	165.69	-399.53	516.38	2,983.38	2,928.93	54.44	54.800		
6,700.00	5,622.88	5,679.00	5,586.62	70.25	25.10	166.00	-399.56	515.45	3,045.40	2,990.36	55.05	55.325		
6,800.00	5,701.00	5,760.86	5,668.48	71.58	25.31	166.30	-399.61	514.62	3,107.40	3,051.73	55.67	55.817		
6,900.00	5,779.11	5,841.76	5,749.38	72.91	25.51	166.58	-399.60	513.90	3,169.32	3,113.03	56.29	56.300		
7,000.00	5,857.23	5,920.86	5,828.48	74.23	25.72	166.85	-399.53	513.21	3,231.25	3,174.34	56.91	56.783		
7,100.00	5,935.35	5,998.68	5,906.29	75.56	25.91	167.11	-399.32	512.47	3,293.18	3,235.68	57.51	57.265		
7,200.00	6,013.46	6,070.38	5,977.99	76.89	26.10	167.34	-399.10	511.68	3,355.24	3,297.17	58.07	57.784		
7,300.00	6,091.58	6,147.54	6,055.14	78.22	26.29	167.58	-398.86	510.73	3,417.41	3,358.75	58.67	58.251		
7,400.00	6,169.70	6,229.46	6,137.05	79.55	26.50	167.83	-398.45	509.67	3,479.58	3,420.28	59.30	58.673		
7,500.00	6,247.81	6,315.27	6,222.86	80.88	26.73	168.09	-397.89	508.67	3,541.65	3,481.67	59.97	59.053		
7,600.00	6,325.93	6,395.19	6,302.77	82.21	26.94	168.31	-397.38	507.94	3,603.58	3,542.97	60.60	59.460		
7,700.00	6,404.05	6,467.61	6,375.19	83.54	27.13	168.51	-396.95	507.21	3,665.62	3,604.44	61.18	59.914		
7,800.00	6,482.17	6,545.31	6,452.88	84.87	27.33	168.71	-396.56	506.43	3,727.75	3,665.95	61.80	60.318		
7,900.00	6,560.28	6,643.53	6,551.10	86.20	27.60	168.96	-396.15	505.79	3,789.70	3,727.11	62.58	60.554		
8,000.00	6,638.40	6,718.21	6,625.78	87.53	27.80	169.13	-395.91	505.56	3,851.49	3,788.30	63.19	60.948		
8,100.00	6,716.52	6,797.07	6,704.64	88.86	28.02	169.31	-395.83	505.39	3,913.34	3,849.50	63.85	61.294		
8,200.00	6,794.63	6,876.65	6,784.22	90.20	28.26	169.47	-396.03	505.45	3,975.18	3,910.66	64.52	61.613		
8,300.00	6,872.75	6,956.95	6,864.52	91.53	28.50	169.63	-396.67	505.83	4,037.00	3,971.79	65.21	61.907		
8,400.00	6,950.87	7,037.29	6,944.85	92.86	28.75	169.77	-397.46	506.37	4,098.79	4,032.88	65.91	62.187		
8,500.00	7,028.98	7,113.40	7,020.95	94.19	28.99	169.90	-398.45	507.02	4,160.60	4,094.02	66.58	62.490		
8,600.00	7,107.10	7,180.49	7,088.03	95.52	29.21	170.00	-399.51	507.59	4,222.55	4,155.36	67.18	62.854		
8,647.91	7,144.53	7,214.72	7,122.25	96.16	29.32	170.06	-400.11	507.84	4,252.30	4,184.81	67.49	63.010		
8,650.00	7,146.16	7,216.46	7,123.99	96.18	29.32	169.67	-400.14	507.86	4,253.59	4,186.09	67.50	63.015		
8,700.00	7,185.66	7,258.51	7,166.04	96.84	29.46	160.38	-400.88	508.18	4,283.68	4,215.81	67.87	63.117		
8,750.00	7,225.78	7,301.34	7,208.86	97.47	29.59	151.11	-401.63	508.52	4,311.82	4,243.59	68.23	63.192		
8,800.00	7,266.21	7,344.14	7,251.65	98.08	29.73	142.03	-402.36	508.89	4,337.83	4,269.24	68.59	63.241		
8,850.00	7,306.63	7,387.08	7,294.58	98.64	29.87	133.32	-403.09	509.29	4,361.54	4,292.60	68.94	63.264		
8,900.00	7,346.75	7,433.66	7,341.15	99.17	30.02	125.22	-403.84	509.74	4,382.81	4,313.50	69.31	63.234		
8,950.00	7,386.25	7,480.02	7,387.51	99.64	30.17	117.88	-404.51	510.22	4,401.48	4,331.81	69.67	63.180		
9,000.00	7,424.84	7,553.81	7,461.29	100.06	30.40	111.62	-405.32	511.22	4,417.36	4,347.13	70.23	62.895		
9,050.00	7,462.22	9,050.00	7,488.08	100.42	35.24	105.87	-405.50	511.67	4,430.40	4,355.24	75.16	58.945		
9,100.00	7,498.11	7,611.22	7,518.68	100.74	30.59	101.02	-405.68	512.12	4,440.76	4,370.18	70.58	62.921		
9,150.00	7,532.24	7,629.65	7,537.11	100.99	30.64	96.88	-405.79	512.29	4,448.55	4,377.91	70.64	62.974		
9,200.00	7,564.34	7,646.91	7,554.37	101.19	30.70	93.47	-405.90	512.37	4,453.72	4,383.04	70.68	63.010		
9,250.00	7,594.17	7,672.00	7,579.46	101.34	30.78	90.82	-406.06	512.38	4,456.27	4,385.49	70.78	62.961		
9,300.00	7,621.50	7,672.00	7,579.46	101.45	30.78	88.54	-406.06	512.38	4,456.17	4,385.52	70.65	63.072		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,695.60	7,603.06	101.50	30.85	87.08	-406.22	512.28	4,453.46	4,382.75	70.72	62.975		
9,400.00	7,667.87	7,710.31	7,617.77	101.51	30.89	86.06	-406.32	512.20	4,448.19	4,377.49	70.71	62.911		
9,450.00	7,686.55	7,722.98	7,630.44	101.48	30.93	85.50	-406.42	512.10	4,440.41	4,369.73	70.68	62.825		
9,500.00	7,702.04	7,733.52	7,640.99	101.42	30.96	85.39	-406.50	512.00	4,430.20	4,359.56	70.64	62.715		
9,550.00	7,714.20	7,741.87	7,649.33	101.33	30.98	85.71	-406.56	511.92	4,417.63	4,347.04	70.59	62.580		
9,600.00	7,722.96	7,747.95	7,655.41	101.20	31.00	86.44	-406.61	511.86	4,402.81	4,332.27	70.54	62.417		
9,650.00	7,728.24	7,751.74	7,659.19	101.06	31.01	87.58	-406.64	511.81	4,385.84	4,315.35	70.48	62.224		
9,699.97	7,730.00	7,753.18	7,660.64	100.90	31.02	89.12	-406.65	511.80	4,366.84	4,296.40	70.43	62.000		
9,800.00	7,730.00	7,753.74	7,661.20	100.56	31.02	89.13	-406.66	511.79	4,327.81	4,257.46	70.36	61.512		
9,900.00	7,730.00	7,754.30	7,661.76	100.24	31.02	89.14	-406.66	511.78	4,290.78	4,220.45	70.33	61.008		
10,000.00	7,730.00	7,754.86	7,662.32	99.93	31.02	89.15	-406.67	511.78	4,255.77	4,185.42	70.36	60.487		
10,100.00	7,730.00	7,755.42	7,662.88	99.64	31.02	89.15	-406.67	511.77	4,222.85	4,152.41	70.44	59.949		
10,200.00	7,730.00	7,755.99	7,663.45	99.36	31.03	89.16	-406.68	511.76	4,192.05	4,121.47	70.58	59.395		
10,300.00	7,730.00	7,756.55	7,664.01	99.09	31.03	89.17	-406.68	511.76	4,163.42	4,092.64	70.78	58.825		
10,400.00	7,730.00	7,757.12	7,664.58	98.84	31.03	89.18	-406.69	511.75	4,137.01	4,065.98	71.03	58.242		
10,500.00	7,730.00	7,766.00	7,673.46	98.61	31.05	89.31	-406.76	511.64	4,112.88	4,041.45	71.43	57.578		
10,600.00	7,730.00	7,766.00	7,673.46	98.39	31.05	89.31	-406.76	511.64	4,091.04	4,019.24	71.80	56.980		
10,700.00	7,730.00	7,766.00	7,673.46	98.18	31.05	89.31	-406.76	511.64	4,071.53	3,999.31	72.22	56.377		
10,800.00	7,730.00	7,766.00	7,673.46	97.99	31.05	89.31	-406.76	511.64	4,054.40	3,981.71	72.70	55.772		
10,900.00	7,730.00	7,766.00	7,673.46	97.81	31.05	89.31	-406.76	511.64	4,039.68	3,966.45	73.22	55.169		
11,000.00	7,730.00	7,766.00	7,673.46	97.64	31.05	89.31	-406.76	511.64	4,027.38	3,953.58	73.80	54.571		
11,100.00	7,730.00	7,766.00	7,673.46	97.50	31.05	89.31	-406.76	511.64	4,017.53	3,943.11	74.42	53.983		
11,200.00	7,730.00	7,766.00	7,673.46	97.36	31.05	89.31	-406.76	511.64	4,010.16	3,935.07	75.09	53.407		
11,300.00	7,730.00	7,766.00	7,673.46	97.24	31.05	89.31	-406.76	511.64	4,005.27	3,929.48	75.79	52.848		
11,400.00	7,730.00	7,766.00	7,673.46	97.14	31.05	89.31	-406.76	511.64	4,002.87	3,926.35	76.52	52.308		
11,446.00	7,730.00	7,766.00	7,673.46	97.10	31.05	89.31	-406.76	511.64	4,002.61	3,925.73	76.88	52.063		
11,500.00	7,730.00	7,766.00	7,673.46	97.06	31.05	89.31	-406.76	511.64	4,002.97	3,925.68	77.29	51.792		
11,600.00	7,730.00	7,766.00	7,673.46	96.98	31.05	89.31	-406.76	511.64	4,005.57	3,927.49	78.08	51.301		
11,700.00	7,730.00	7,766.00	7,673.46	96.93	31.05	89.31	-406.76	511.64	4,010.66	3,931.77	78.89	50.838		
11,800.00	7,730.00	7,766.00	7,673.46	96.90	31.05	89.31	-406.76	511.64	4,018.23	3,938.51	79.72	50.406		
11,900.00	7,730.00	7,766.00	7,673.46	96.88	31.05	89.31	-406.76	511.64	4,028.27	3,947.72	80.56	50.005		
12,000.00	7,730.00	7,766.63	7,674.09	96.88	31.06	89.31	-406.77	511.63	4,040.77	3,959.35	81.41	49.634		
12,100.00	7,730.00	7,767.49	7,674.95	96.90	31.06	89.33	-406.78	511.62	4,055.68	3,973.41	82.27	49.296		
12,200.00	7,730.00	7,768.34	7,675.79	96.94	31.06	89.34	-406.78	511.61	4,073.01	3,989.87	83.13	48.994		
12,300.00	7,730.00	7,769.17	7,676.63	97.00	31.06	89.35	-406.79	511.59	4,092.70	4,008.71	83.99	48.728		
12,400.00	7,730.00	7,770.00	7,677.46	97.08	31.07	89.36	-406.80	511.58	4,114.73	4,029.88	84.84	48.498		
12,500.00	7,730.00	7,770.82	7,678.27	97.18	31.07	89.37	-406.80	511.57	4,139.05	4,053.36	85.69	48.304		
12,600.00	7,730.00	7,771.62	7,679.08	97.31	31.07	89.39	-406.81	511.56	4,165.64	4,079.12	86.52	48.146		
12,700.00	7,730.00	7,772.41	7,679.87	97.46	31.07	89.40	-406.82	511.55	4,194.44	4,107.10	87.34	48.024		
12,800.00	7,730.00	7,773.20	7,680.66	97.64	31.08	89.41	-406.82	511.54	4,225.41	4,137.27	88.15	47.937		
12,900.00	7,730.00	7,773.97	7,681.43	97.85	31.08	89.42	-406.83	511.53	4,258.51	4,169.58	88.93	47.884		
13,000.00	7,730.00	7,774.74	7,682.19	98.09	31.08	89.43	-406.83	511.52	4,293.68	4,203.98	89.70	47.865		
13,100.00	7,730.00	7,775.49	7,682.95	98.35	31.08	89.44	-406.84	511.51	4,330.88	4,240.42	90.45	47.880		
13,200.00	7,730.00	7,776.24	7,683.69	98.65	31.08	89.45	-406.85	511.50	4,370.04	4,278.86	91.18	47.926		
13,300.00	7,730.00	7,776.97	7,684.43	98.98	31.09	89.46	-406.85	511.49	4,411.13	4,319.24	91.89	48.004		
13,400.00	7,730.00	7,777.70	7,685.16	99.34	31.09	89.47	-406.86	511.48	4,454.08	4,361.50	92.58	48.111		
13,500.00	7,730.00	7,778.42	7,685.88	99.74	31.09	89.48	-406.86	511.47	4,498.85	4,405.60	93.24	48.249		
13,600.00	7,730.00	7,779.13	7,686.58	100.17	31.09	89.49	-406.87	511.46	4,545.37	4,451.48	93.89	48.414		
13,700.00	7,730.00	7,779.83	7,687.29	100.65	31.10	89.50	-406.87	511.46	4,593.60	4,499.09	94.51	48.607		
13,800.00	7,730.00	7,780.52	7,687.98	101.16	31.10	89.51	-406.88	511.45	4,643.48	4,548.38	95.10	48.826		
13,900.00	7,730.00	7,781.21	7,688.66	101.71	31.10	89.52	-406.88	511.44	4,694.97	4,599.29	95.68	49.070		
14,000.00	7,730.00	7,781.88	7,689.34	102.30	31.10	89.53	-406.89	511.43	4,748.00	4,651.77	96.23	49.339		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 138-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,782.55	7,690.01	102.93	31.10	89.54	-406.89	511.42	4,802.53	4,705.76	96.76	49.631		
14,200.00	7,730.00	7,783.21	7,690.67	103.60	31.10	89.55	-406.90	511.41	4,858.50	4,761.23	97.28	49.946		
14,300.00	7,730.00	7,783.86	7,691.32	104.32	31.11	89.56	-406.90	511.40	4,915.87	4,818.11	97.77	50.282		
14,400.00	7,730.00	7,784.51	7,691.96	105.07	31.11	89.57	-406.91	511.39	4,974.59	4,876.36	98.24	50.639		
14,500.00	7,730.00	7,785.15	7,692.60	105.86	31.11	89.58	-406.91	511.39	5,034.61	4,935.93	98.69	51.017		
14,600.00	7,730.00	7,785.78	7,693.23	106.70	31.11	89.59	-406.92	511.38	5,095.89	4,996.77	99.12	51.413		
14,700.00	7,730.00	7,786.40	7,693.85	107.57	31.11	89.60	-406.92	511.37	5,158.38	5,058.85	99.53	51.827		
14,800.00	7,730.00	7,787.01	7,694.47	108.48	31.12	89.61	-406.93	511.36	5,222.03	5,122.11	99.93	52.259		
14,900.00	7,730.00	7,787.62	7,695.08	109.43	31.12	89.61	-406.93	511.35	5,286.82	5,186.51	100.30	52.708		
15,000.00	7,730.00	7,788.23	7,695.68	110.42	31.12	89.62	-406.94	511.35	5,352.68	5,252.02	100.66	53.174		
15,100.00	7,730.00	7,788.82	7,696.28	111.43	31.12	89.63	-406.94	511.34	5,419.59	5,318.58	101.01	53.654		
15,200.00	7,730.00	7,789.41	7,696.86	112.49	31.12	89.64	-406.94	511.33	5,487.50	5,386.17	101.34	54.150		
15,300.00	7,730.00	7,789.99	7,697.45	113.57	31.12	89.65	-406.95	511.32	5,556.39	5,454.74	101.66	54.659		
15,400.00	7,730.00	7,790.57	7,698.02	114.68	31.13	89.66	-406.95	511.32	5,626.21	5,524.25	101.96	55.183		
15,500.00	7,730.00	7,791.14	7,698.59	115.82	31.13	89.66	-406.96	511.31	5,696.93	5,594.68	102.24	55.719		
15,600.00	7,730.00	7,791.70	7,699.16	116.99	31.13	89.67	-406.96	511.30	5,768.51	5,665.99	102.52	56.268		
15,700.00	7,730.00	7,792.26	7,699.71	118.19	31.13	89.68	-406.96	511.29	5,840.93	5,738.15	102.78	56.828		
15,800.00	7,730.00	7,792.81	7,700.26	119.41	31.13	89.69	-406.97	511.29	5,914.16	5,811.13	103.03	57.401		
15,900.00	7,730.00	7,793.36	7,700.81	120.65	31.13	89.70	-406.97	511.28	5,988.16	5,884.88	103.27	57.984		
16,000.00	7,730.00	7,793.90	7,701.35	121.91	31.14	89.70	-406.97	511.27	6,062.90	5,959.40	103.50	58.578		
16,100.00	7,730.00	7,794.43	7,701.88	123.20	31.14	89.71	-406.98	511.27	6,138.37	6,034.65	103.72	59.182		
16,200.00	7,730.00	7,794.96	7,702.41	124.50	31.14	89.72	-406.98	511.26	6,214.52	6,110.59	103.93	59.795		
16,300.00	7,730.00	7,795.48	7,702.93	125.82	31.14	89.73	-406.99	511.25	6,291.35	6,187.22	104.13	60.418		
16,400.00	7,730.00	7,796.00	7,703.45	127.16	31.14	89.73	-406.99	511.25	6,368.82	6,264.49	104.32	61.050		
16,500.00	7,730.00	7,796.51	7,703.96	128.52	31.14	89.74	-406.99	511.24	6,446.90	6,342.40	104.50	61.690		
16,600.00	7,730.00	7,797.02	7,704.47	129.89	31.14	89.75	-407.00	511.23	6,525.59	6,420.91	104.68	62.339		
16,700.00	7,730.00	7,797.52	7,704.97	131.27	31.15	89.76	-407.00	511.23	6,604.85	6,500.01	104.85	62.995		
16,800.00	7,730.00	7,798.01	7,705.47	132.67	31.15	89.76	-407.00	511.22	6,684.67	6,579.66	105.01	63.659		
16,900.00	7,730.00	7,798.51	7,705.96	134.09	31.15	89.77	-407.00	511.21	6,765.03	6,659.87	105.16	64.331		
17,000.00	7,730.00	7,798.99	7,706.45	135.51	31.15	89.78	-407.01	511.21	6,845.90	6,740.59	105.31	65.009		
17,100.00	7,730.00	7,799.47	7,706.93	136.95	31.15	89.78	-407.01	511.20	6,927.27	6,821.82	105.45	65.694		
17,200.00	7,730.00	7,799.95	7,707.41	138.40	31.15	89.79	-407.01	511.20	7,009.12	6,903.54	105.58	66.385		
17,300.00	7,730.00	7,800.42	7,707.88	139.85	31.15	89.80	-407.02	511.19	7,091.44	6,985.73	105.71	67.082		
17,400.00	7,730.00	7,800.89	7,708.34	141.32	31.16	89.80	-407.02	511.18	7,174.21	7,068.38	105.84	67.786		
17,500.00	7,730.00	7,801.35	7,708.81	142.80	31.16	89.81	-407.02	511.18	7,257.41	7,151.46	105.96	68.495		
17,600.00	7,730.00	7,801.81	7,709.27	144.28	31.16	89.82	-407.03	511.17	7,341.04	7,234.97	106.07	69.209		
17,700.00	7,730.00	7,802.27	7,709.72	145.78	31.16	89.82	-407.03	511.17	7,425.06	7,318.88	106.18	69.929		
17,800.00	7,730.00	7,802.72	7,710.17	147.28	31.16	89.83	-407.03	511.16	7,509.48	7,403.19	106.29	70.653		
17,900.00	7,730.00	7,803.16	7,710.61	148.79	31.16	89.84	-407.03	511.16	7,594.28	7,487.89	106.39	71.383		
18,000.00	7,730.00	7,803.60	7,711.05	150.31	31.16	89.84	-407.04	511.15	7,679.44	7,572.95	106.49	72.117		
18,100.00	7,730.00	7,804.04	7,711.49	151.83	31.17	89.85	-407.04	511.14	7,764.96	7,658.38	106.58	72.855		
18,200.00	7,730.00	7,804.47	7,711.92	153.37	31.17	89.86	-407.04	511.14	7,850.81	7,744.14	106.67	73.598		
18,300.00	7,730.00	7,804.90	7,712.35	154.90	31.17	89.86	-407.04	511.13	7,937.00	7,830.24	106.76	74.345		
18,400.00	7,730.00	7,805.32	7,712.78	156.45	31.17	89.87	-407.05	511.13	8,023.51	7,916.67	106.84	75.096		
18,500.00	7,730.00	7,805.74	7,713.20	158.00	31.17	89.87	-407.05	511.12	8,110.33	8,003.41	106.93	75.850		
18,600.00	7,730.00	7,806.16	7,713.61	159.55	31.17	89.88	-407.05	511.12	8,197.45	8,090.45	107.00	76.609		
18,700.00	7,730.00	7,806.57	7,714.03	161.11	31.17	89.89	-407.05	511.11	8,284.87	8,177.78	107.08	77.370		
18,800.00	7,730.00	7,806.98	7,714.43	162.68	31.17	89.89	-407.06	511.11	8,372.56	8,265.40	107.15	78.135		
18,900.00	7,730.00	7,807.39	7,714.84	164.25	31.17	89.90	-407.06	511.10	8,460.52	8,353.30	107.23	78.904		
19,000.00	7,730.00	7,807.79	7,715.24	165.83	31.18	89.90	-407.06	511.10	8,548.75	8,441.46	107.30	79.675		
19,100.00	7,730.00	7,808.18	7,715.64	167.41	31.18	89.91	-407.06	511.09	8,637.24	8,529.88	107.36	80.449		
19,200.00	7,730.00	7,808.58	7,716.03	168.99	31.18	89.91	-407.07	511.09	8,725.98	8,618.55	107.43	81.226		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		138-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,808.97	7,716.42	170.58	31.18	89.92	-407.07	511.08	8,814.95	8,707.46	107.49	82.006	
19,400.00	7,730.00	7,809.36	7,716.81	172.17	31.18	89.93	-407.07	511.08	8,904.17	8,796.61	107.55	82.788	
19,430.54	7,730.00	7,809.47	7,716.93	172.66	31.18	89.93	-407.07	511.08	8,931.45	8,823.88	107.57	83.028	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-35.46	218.57	-155.68	268.47					
100.00	100.00	92.51	92.51	0.13	0.15	-35.57	218.19	-156.06	268.26	267.97	0.29	939.757		
159.30	159.30	152.13	152.12	0.35	0.25	-35.77	217.54	-156.72	268.11	267.52	0.60	450.365 CC		
200.00	200.00	189.62	189.61	0.49	0.41	-35.82	217.57	-157.01	268.32	267.42	0.90	298.581 ES		
300.00	300.00	281.14	281.10	0.85	0.73	-35.57	219.91	-157.26	270.57	268.99	1.58	170.880		
400.00	400.00	372.31	372.03	1.21	1.06	-34.82	226.26	-157.40	276.35	274.08	2.27	121.798		
500.00	500.00	463.84	463.04	1.57	1.40	-33.67	235.97	-157.17	284.99	282.03	2.96	96.254		
600.00	599.98	553.70	552.05	1.92	1.76	-97.80	248.31	-157.52	297.00	293.35	3.65	81.427		
700.00	699.84	641.98	638.96	2.28	2.13	-96.88	263.76	-158.08	312.85	308.51	4.33	72.229		
800.00	799.45	729.20	724.20	2.64	2.54	-96.25	282.18	-159.08	332.48	327.46	5.02	66.203		
900.00	898.70	814.79	807.12	3.02	2.96	-95.85	303.29	-160.39	355.74	350.01	5.72	62.159		
1,000.00	997.47	901.59	890.34	3.41	3.43	-95.60	327.92	-161.89	382.57	376.12	6.46	59.250		
1,100.00	1,095.62	996.71	981.21	3.84	3.96	-95.77	355.99	-163.89	410.97	403.70	7.27	56.545		
1,200.00	1,193.06	1,090.98	1,071.32	4.29	4.50	-96.29	383.59	-165.78	439.56	431.43	8.13	54.051		
1,300.00	1,289.64	1,180.43	1,156.44	4.78	5.03	-96.92	411.03	-167.65	469.91	460.90	9.01	52.169		
1,400.00	1,385.27	1,275.62	1,246.99	5.32	5.60	-97.89	440.31	-169.88	501.16	491.18	9.98	50.225		
1,500.00	1,479.82	1,368.02	1,334.89	5.90	6.16	-98.98	468.69	-171.94	533.18	522.20	10.99	48.533		
1,600.00	1,573.17	1,456.49	1,418.82	6.53	6.70	-100.06	496.64	-173.74	566.78	554.75	12.02	47.135		
1,700.00	1,665.21	1,544.33	1,501.81	7.23	7.25	-101.14	525.36	-175.23	602.13	589.01	13.12	45.888		
1,800.00	1,755.84	1,630.40	1,582.92	7.98	7.80	-102.22	554.13	-176.89	639.40	625.13	14.27	44.820		
1,900.00	1,844.94	1,718.24	1,665.65	8.80	8.37	-103.43	583.58	-179.05	678.47	662.99	15.48	43.819		
2,000.00	1,932.39	1,806.22	1,748.64	9.68	8.93	-104.73	612.65	-181.75	719.19	702.44	16.75	42.926		
2,100.00	2,018.11	1,892.86	1,830.55	10.63	9.48	-106.07	640.69	-184.92	761.65	743.59	18.06	42.179		
2,200.00	2,101.97	1,983.26	1,916.34	11.65	10.05	-107.58	668.94	-188.69	805.74	786.31	19.43	41.460		
2,300.00	2,183.88	2,065.54	1,994.74	12.74	10.55	-108.93	693.61	-192.56	851.64	830.88	20.76	41.026		
2,400.00	2,263.74	2,155.08	2,080.25	13.90	11.09	-110.48	719.82	-196.93	899.61	877.43	22.18	40.556		
2,431.61	2,288.54	2,184.34	2,108.23	14.29	11.26	-110.98	728.26	-198.15	915.05	892.40	22.65	40.406		
2,500.00	2,341.97	2,247.56	2,168.79	15.13	11.64	-112.73	746.29	-200.44	948.64	925.00	23.65	40.117		
2,600.00	2,420.08	2,336.85	2,254.49	16.37	12.16	-115.00	771.22	-203.02	997.97	972.91	25.06	39.823		
2,700.00	2,498.20	2,429.34	2,343.49	17.63	12.68	-117.16	796.29	-205.18	1,047.62	1,021.14	26.48	39.563		
2,800.00	2,576.32	2,514.64	2,425.74	18.89	13.16	-119.00	818.83	-206.57	1,097.38	1,069.58	27.81	39.465		
2,900.00	2,654.43	2,596.43	2,504.61	20.17	13.62	-120.62	840.48	-207.84	1,147.92	1,118.84	29.08	39.476		
3,000.00	2,732.55	2,679.10	2,584.35	21.45	14.09	-122.13	862.25	-209.09	1,199.06	1,168.72	30.34	39.519		
3,100.00	2,810.67	2,768.74	2,670.94	22.74	14.58	-123.66	885.40	-210.46	1,250.69	1,219.04	31.65	39.512		
3,200.00	2,888.78	2,867.84	2,766.64	24.03	15.13	-125.19	911.12	-210.35	1,301.60	1,268.55	33.05	39.380 SF		
3,300.00	2,966.90	2,945.64	2,841.76	25.33	15.56	-126.28	931.38	-210.02	1,352.81	1,318.58	34.23	39.523		
3,400.00	3,045.02	3,019.09	2,912.73	26.63	15.97	-127.27	950.29	-210.20	1,404.87	1,369.53	35.34	39.753		
3,500.00	3,123.13	3,104.07	2,994.69	27.94	16.45	-128.32	972.74	-210.42	1,457.49	1,420.92	36.57	39.854		
3,600.00	3,201.25	3,175.15	3,062.88	29.24	16.86	-129.08	992.79	-210.32	1,510.59	1,472.92	37.67	40.102		
3,700.00	3,279.37	3,266.90	3,150.51	30.55	17.41	-129.94	1,020.00	-210.20	1,564.33	1,525.32	39.01	40.100		
3,800.00	3,357.49	3,353.67	3,233.42	31.86	17.93	-130.70	1,045.54	-209.24	1,617.41	1,577.11	40.29	40.140		
3,900.00	3,435.60	3,444.03	3,319.71	33.18	18.47	-131.44	1,072.35	-208.34	1,670.84	1,629.22	41.62	40.148		
4,000.00	3,513.72	3,542.70	3,413.76	34.49	19.06	-132.15	1,102.11	-206.10	1,723.46	1,680.42	43.04	40.042		
4,100.00	3,591.84	3,608.88	3,477.01	35.81	19.46	-132.62	1,121.54	-204.64	1,776.19	1,732.11	44.08	40.295		
4,200.00	3,669.95	3,654.97	3,521.04	37.12	19.73	-132.94	1,135.14	-204.48	1,830.53	1,785.67	44.86	40.804		
4,300.00	3,748.07	3,722.52	3,585.60	38.44	20.13	-133.41	1,155.00	-205.50	1,886.39	1,840.51	45.88	41.118		
4,400.00	3,826.19	3,808.25	3,668.00	39.76	20.63	-134.03	1,178.59	-207.06	1,942.32	1,895.24	47.08	41.254		
4,500.00	3,904.30	3,895.96	3,752.48	41.08	21.13	-134.65	1,202.11	-208.67	1,998.28	1,949.99	48.29	41.379		
4,600.00	3,982.42	3,989.32	3,842.25	42.40	21.67	-135.24	1,227.75	-209.63	2,053.83	2,004.25	49.58	41.427		
4,700.00	4,060.54	4,078.21	3,927.72	43.72	22.18	-135.78	1,252.12	-210.34	2,109.32	2,058.51	50.81	41.516		
4,800.00	4,138.66	4,182.09	4,027.89	45.05	22.76	-136.39	1,279.67	-210.36	2,164.10	2,111.90	52.20	41.462		
4,900.00	4,216.77	4,267.39	4,109.84	46.37	23.25	-136.83	1,303.32	-209.81	2,218.68	2,165.29	53.39	41.559		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,349.68	4,188.81	47.69	23.73	-137.23	1,326.44	-209.08	2,273.20	2,218.65	54.55	41.672		
5,100.00	4,373.01	4,411.29	4,247.96	49.02	24.09	-137.51	1,343.68	-208.91	2,328.26	2,272.80	55.46	41.979		
5,200.00	4,451.12	4,468.44	4,302.87	50.34	24.42	-137.78	1,359.54	-209.32	2,384.19	2,327.88	56.31	42.342		
5,300.00	4,529.24	4,525.94	4,358.18	51.67	24.75	-138.05	1,375.18	-210.44	2,441.07	2,383.93	57.14	42.719		
5,400.00	4,607.36	4,675.13	4,501.43	52.99	25.62	-138.68	1,416.83	-211.52	2,497.07	2,437.96	59.11	42.247		
5,500.00	4,685.47	4,763.73	4,586.12	54.32	26.14	-138.98	1,442.83	-210.58	2,551.93	2,491.57	60.36	42.277		
5,600.00	4,763.59	4,845.02	4,663.82	55.64	26.62	-139.25	1,466.72	-209.85	2,606.99	2,545.47	61.52	42.373		
5,700.00	4,841.71	4,925.80	4,741.46	56.97	27.09	-139.55	1,488.99	-209.29	2,662.03	2,599.38	62.65	42.490		
5,800.00	4,919.83	4,995.47	4,808.68	58.30	27.48	-139.82	1,507.31	-209.18	2,717.41	2,653.79	63.62	42.713		
5,900.00	4,997.94	5,059.65	4,870.77	59.62	27.83	-140.08	1,523.56	-209.54	2,773.32	2,708.81	64.50	42.996		
6,000.00	5,076.06	5,126.65	4,935.72	60.95	28.19	-140.35	1,539.97	-210.41	2,829.78	2,764.38	65.40	43.268		
6,100.00	5,154.18	5,199.25	5,006.18	62.28	28.57	-140.65	1,557.44	-211.71	2,886.66	2,820.31	66.35	43.507		
6,200.00	5,232.29	5,285.01	5,089.87	63.61	29.01	-141.04	1,576.06	-213.54	2,943.65	2,876.25	67.40	43.674		
6,300.00	5,310.41	5,384.32	5,187.47	64.93	29.46	-141.55	1,594.23	-215.62	3,000.37	2,931.86	68.51	43.792		
6,400.00	5,388.53	5,476.57	5,278.67	66.26	29.84	-142.08	1,607.96	-217.42	3,056.78	2,987.31	69.48	43.997		
6,500.00	5,466.64	5,559.96	5,361.47	67.59	30.16	-142.59	1,617.77	-219.12	3,113.16	3,042.86	70.30	44.286		
6,600.00	5,544.76	5,641.01	5,442.11	68.92	30.44	-143.10	1,625.59	-220.88	3,169.63	3,098.59	71.05	44.614		
6,700.00	5,622.88	5,711.23	5,512.11	70.25	30.66	-143.57	1,630.94	-222.59	3,226.37	3,154.70	71.67	45.017		
6,800.00	5,701.00	5,818.84	5,619.56	71.58	30.96	-144.31	1,636.09	-225.29	3,283.24	3,210.74	72.49	45.290		
6,900.00	5,779.11	5,959.60	5,760.27	72.91	31.33	-145.30	1,639.54	-226.52	3,338.72	3,265.28	73.44	45.459		
7,000.00	5,857.23	6,030.41	5,831.06	74.23	31.50	-145.79	1,640.86	-226.72	3,394.11	3,320.14	73.98	45.881		
7,100.00	5,935.35	6,091.38	5,892.02	75.56	31.65	-146.21	1,641.43	-227.17	3,450.04	3,375.60	74.44	46.350		
7,200.00	6,013.46	6,160.46	5,961.10	76.89	31.81	-146.69	1,641.43	-227.99	3,506.52	3,431.60	74.92	46.803		
7,300.00	6,091.58	6,241.84	6,042.48	78.22	31.99	-147.23	1,641.75	-229.02	3,563.29	3,487.81	75.48	47.210		
7,400.00	6,169.70	6,324.33	6,124.96	79.55	32.19	-147.76	1,642.22	-229.83	3,620.06	3,544.01	76.04	47.604		
7,500.00	6,247.81	6,389.51	6,190.13	80.88	32.35	-148.16	1,642.69	-230.59	3,677.18	3,600.66	76.52	48.057		
7,600.00	6,325.93	6,486.24	6,286.85	82.21	32.59	-148.74	1,643.61	-231.65	3,734.44	3,657.26	77.18	48.388		
7,700.00	6,404.05	6,562.68	6,363.29	83.54	32.77	-149.19	1,644.13	-232.29	3,791.68	3,713.96	77.71	48.790		
7,800.00	6,482.17	6,677.42	6,478.02	84.87	33.05	-149.85	1,644.33	-232.82	3,848.82	3,770.36	78.46	49.055		
7,900.00	6,560.28	6,760.01	6,560.61	86.20	33.26	-150.30	1,644.95	-232.71	3,905.64	3,826.60	79.04	49.414		
8,000.00	6,638.40	6,821.83	6,622.43	87.53	33.42	-150.62	1,645.79	-232.70	3,962.70	3,883.19	79.51	49.839		
8,100.00	6,716.52	6,884.44	6,685.02	88.86	33.58	-150.94	1,646.90	-232.99	4,020.27	3,940.28	79.99	50.260		
8,200.00	6,794.63	6,953.43	6,754.01	90.20	33.77	-151.28	1,648.28	-233.50	4,078.20	3,997.69	80.51	50.654		
8,300.00	6,872.75	7,054.49	6,855.03	91.53	34.05	-151.75	1,650.57	-234.10	4,136.13	4,054.88	81.25	50.909		
8,400.00	6,950.87	7,128.84	6,929.36	92.86	34.25	-152.10	1,652.18	-234.38	4,194.01	4,112.20	81.81	51.266		
8,500.00	7,028.98	7,202.93	7,003.44	94.19	34.45	-152.43	1,653.56	-234.71	4,252.07	4,169.71	82.37	51.624		
8,600.00	7,107.10	7,287.88	7,088.37	95.52	34.69	-152.81	1,655.32	-235.12	4,310.28	4,227.27	83.00	51.931		
8,647.91	7,144.53	7,339.92	7,140.39	96.16	34.84	-153.02	1,656.84	-235.26	4,338.11	4,254.72	83.39	52.024		
8,650.00	7,146.16	7,345.27	7,145.73	96.18	34.85	-153.44	1,657.02	-235.27	4,339.32	4,255.90	83.42	52.015		
8,700.00	7,185.66	7,438.84	7,239.23	96.84	35.13	-163.42	1,660.76	-234.62	4,368.12	4,284.02	84.10	51.940		
8,750.00	7,225.78	7,479.98	7,280.35	97.47	35.24	-173.63	1,661.73	-234.09	4,396.96	4,312.56	84.40	52.098		
8,800.00	7,266.21	7,521.27	7,321.64	98.08	35.35	175.99	1,661.70	-233.50	4,425.78	4,341.10	84.68	52.267		
8,850.00	7,306.63	7,545.95	7,346.31	98.64	35.41	165.69	1,661.35	-233.18	4,454.43	4,369.60	84.83	52.510		
8,900.00	7,346.75	7,572.59	7,372.94	99.17	35.47	155.76	1,660.79	-232.91	4,482.74	4,397.76	84.98	52.749		
8,950.00	7,386.25	7,598.86	7,399.21	99.64	35.53	146.43	1,660.05	-232.71	4,510.53	4,425.41	85.12	52.988		
9,000.00	7,424.84	7,624.84	7,470.85	100.06	35.61	138.13	1,657.74	-231.83	4,537.22	4,448.81	85.41	53.318		
9,050.00	7,462.22	7,737.04	7,537.30	100.42	35.83	130.75	1,655.72	-230.69	4,562.80	4,476.97	85.83	53.163		
9,100.00	7,498.11	7,765.75	7,566.00	100.74	35.90	123.99	1,654.93	-230.16	4,587.20	4,501.22	85.97	53.356		
9,150.00	7,532.24	7,793.04	7,593.27	100.99	35.96	118.05	1,654.22	-229.71	4,610.40	4,524.28	86.11	53.538		
9,200.00	7,564.34	7,833.91	7,634.12	101.19	36.05	113.01	1,653.16	-229.04	4,632.22	4,545.89	86.33	53.656		
9,250.00	7,594.17	7,874.86	7,675.05	101.34	36.14	108.70	1,652.05	-228.28	4,652.51	4,565.95	86.56	53.749		
9,300.00	7,621.50	8,142.39	7,942.00	101.45	36.72	107.40	1,640.35	-216.27	4,670.54	4,582.73	87.81	53.188		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	8,187.74	7,987.14	101.50	36.82	104.49	1,637.56	-212.97	4,686.14	4,598.09	88.05	53.219		
9,400.00	7,667.87	8,171.00	7,970.48	101.51	36.78	101.43	1,638.61	-214.20	4,700.31	4,612.23	88.07	53.368		
9,450.00	7,686.55	8,171.00	7,970.48	101.48	36.78	99.01	1,638.61	-214.20	4,712.94	4,624.76	88.17	53.450		
9,500.00	7,702.04	8,171.00	7,970.48	101.42	36.78	97.03	1,638.61	-214.20	4,723.97	4,635.68	88.30	53.501		
9,550.00	7,714.20	8,171.00	7,970.48	101.33	36.78	95.45	1,638.61	-214.20	4,733.34	4,644.90	88.44	53.518		
9,600.00	7,722.96	8,202.50	8,001.87	101.20	36.85	94.64	1,636.91	-212.13	4,740.63	4,651.87	88.76	53.412		
9,650.00	7,728.24	8,204.81	8,004.17	101.06	36.86	93.86	1,636.80	-212.00	4,746.43	4,657.47	88.97	53.351		
9,699.97	7,730.00	8,206.01	8,005.36	100.90	36.86	93.43	1,636.75	-211.93	4,750.44	4,661.24	89.20	53.256		
9,800.00	7,730.00	8,207.29	8,006.64	100.56	36.87	93.44	1,636.69	-211.86	4,757.70	4,668.00	89.70	53.043		
9,900.00	7,730.00	8,208.53	8,007.88	100.24	36.87	93.46	1,636.64	-211.79	4,767.04	4,676.84	90.20	52.848		
10,000.00	7,730.00	8,209.74	8,009.09	99.93	36.87	93.47	1,636.59	-211.72	4,778.46	4,687.74	90.72	52.673		
10,100.00	7,730.00	8,210.91	8,010.26	99.64	36.87	93.49	1,636.54	-211.65	4,791.94	4,700.69	91.24	52.519		
10,200.00	7,730.00	8,212.06	8,011.40	99.36	36.88	93.50	1,636.49	-211.59	4,807.45	4,715.68	91.77	52.386		
10,300.00	7,730.00	8,213.17	8,012.50	99.09	36.88	93.51	1,636.45	-211.53	4,824.99	4,732.69	92.30	52.275		
10,400.00	7,730.00	8,214.25	8,013.58	98.84	36.88	93.53	1,636.40	-211.48	4,844.53	4,751.70	92.83	52.186		
10,500.00	7,730.00	8,215.30	8,014.63	98.61	36.88	93.54	1,636.36	-211.42	4,866.05	4,772.69	93.36	52.119		
10,600.00	7,730.00	8,216.32	8,015.65	98.39	36.89	93.55	1,636.32	-211.37	4,889.52	4,795.62	93.89	52.076		
10,700.00	7,730.00	8,217.32	8,016.65	98.18	36.89	93.56	1,636.28	-211.32	4,914.91	4,820.49	94.42	52.055		
10,800.00	7,730.00	8,218.29	8,017.62	97.99	36.89	93.57	1,636.25	-211.27	4,942.19	4,847.25	94.94	52.056		
10,900.00	7,730.00	8,219.24	8,018.57	97.81	36.89	93.59	1,636.21	-211.22	4,971.33	4,875.88	95.45	52.081		
11,000.00	7,730.00	8,220.16	8,019.49	97.64	36.89	93.60	1,636.18	-211.17	5,002.30	4,906.34	95.96	52.129		
11,100.00	7,730.00	8,221.07	8,020.39	97.50	36.90	93.61	1,636.14	-211.13	5,035.07	4,938.61	96.46	52.199		
11,200.00	7,730.00	8,221.95	8,021.26	97.36	36.90	93.62	1,636.11	-211.08	5,069.59	4,972.65	96.95	52.291		
11,300.00	7,730.00	8,222.80	8,022.12	97.24	36.90	93.63	1,636.08	-211.04	5,105.85	5,008.42	97.43	52.406		
11,400.00	7,730.00	8,223.64	8,022.96	97.14	36.90	93.64	1,636.05	-211.00	5,143.79	5,045.89	97.90	52.542		
11,500.00	7,730.00	8,224.46	8,023.77	97.06	36.90	93.65	1,636.02	-210.96	5,183.38	5,085.02	98.36	52.700		
11,600.00	7,730.00	8,225.26	8,024.57	96.98	36.91	93.66	1,635.99	-210.92	5,224.58	5,125.78	98.80	52.879		
11,700.00	7,730.00	8,226.04	8,025.35	96.93	36.91	93.67	1,635.97	-210.88	5,267.36	5,168.13	99.24	53.079		
11,800.00	7,730.00	8,226.80	8,026.11	96.90	36.91	93.68	1,635.94	-210.85	5,311.68	5,212.02	99.66	53.299		
11,900.00	7,730.00	8,227.55	8,026.86	96.88	36.91	93.69	1,635.92	-210.81	5,357.50	5,257.43	100.07	53.538		
12,000.00	7,730.00	8,228.28	8,027.59	96.88	36.91	93.70	1,635.89	-210.78	5,404.78	5,304.32	100.47	53.798		
12,100.00	7,730.00	8,228.99	8,028.30	96.90	36.91	93.70	1,635.87	-210.75	5,453.49	5,352.64	100.85	54.076		
12,200.00	7,730.00	8,264.00	8,063.27	96.94	36.99	94.13	1,635.04	-209.42	5,504.07	5,402.71	101.36	54.302		
12,300.00	7,730.00	8,264.00	8,063.27	97.00	36.99	94.13	1,635.04	-209.42	5,555.49	5,453.78	101.71	54.618		
12,400.00	7,730.00	8,264.00	8,063.27	97.08	36.99	94.13	1,635.04	-209.42	5,608.22	5,506.16	102.06	54.952		
12,500.00	7,730.00	8,264.00	8,063.27	97.18	36.99	94.13	1,635.04	-209.42	5,662.23	5,559.84	102.39	55.302		
12,600.00	7,730.00	8,264.00	8,063.27	97.31	36.99	94.13	1,635.04	-209.42	5,717.47	5,614.76	102.71	55.668		
12,700.00	7,730.00	8,264.00	8,063.27	97.46	36.99	94.13	1,635.04	-209.42	5,773.92	5,670.91	103.01	56.051		
12,800.00	7,730.00	8,264.00	8,063.27	97.64	36.99	94.13	1,635.04	-209.42	5,831.54	5,728.23	103.31	56.448		
12,900.00	7,730.00	8,264.00	8,063.27	97.85	36.99	94.13	1,635.04	-209.42	5,890.29	5,786.70	103.59	56.861		
13,000.00	7,730.00	8,264.00	8,063.27	98.09	36.99	94.13	1,635.04	-209.42	5,950.14	5,846.27	103.86	57.288		
13,100.00	7,730.00	8,264.00	8,063.27	98.35	36.99	94.13	1,635.04	-209.42	6,011.06	5,906.93	104.13	57.729		
13,200.00	7,730.00	8,264.00	8,063.27	98.65	36.99	94.13	1,635.04	-209.42	6,073.01	5,968.64	104.38	58.183		
13,300.00	7,730.00	8,264.00	8,063.27	98.98	36.99	94.13	1,635.04	-209.42	6,135.97	6,031.35	104.62	58.651		
13,400.00	7,730.00	8,264.00	8,063.27	99.34	36.99	94.13	1,635.04	-209.42	6,199.91	6,095.06	104.85	59.131		
13,500.00	7,730.00	8,264.00	8,063.27	99.74	36.99	94.13	1,635.04	-209.42	6,264.78	6,159.71	105.07	59.624		
13,600.00	7,730.00	8,264.00	8,063.27	100.17	36.99	94.13	1,635.04	-209.42	6,330.57	6,225.29	105.29	60.128		
13,700.00	7,730.00	8,264.00	8,063.27	100.65	36.99	94.13	1,635.04	-209.42	6,397.25	6,291.76	105.49	60.644		
13,800.00	7,730.00	8,264.00	8,063.27	101.16	36.99	94.13	1,635.04	-209.42	6,464.79	6,359.10	105.68	61.170		
13,900.00	7,730.00	8,264.00	8,063.27	101.71	36.99	94.13	1,635.04	-209.42	6,533.16	6,427.29	105.87	61.708		
14,000.00	7,730.00	8,264.00	8,063.27	102.30	36.99	94.13	1,635.04	-209.42	6,602.34	6,496.28	106.05	62.256		
14,100.00	7,730.00	8,264.00	8,063.27	102.93	36.99	94.13	1,635.04	-209.42	6,672.29	6,566.07	106.22	62.813		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	8,264.00	8,063.27	103.60	36.99	94.13	1,635.04	-209.42	6,743.01	6,636.62	106.39	63.380		
14,300.00	7,730.00	8,264.00	8,063.27	104.32	36.99	94.13	1,635.04	-209.42	6,814.46	6,707.91	106.55	63.957		
14,400.00	7,730.00	8,264.00	8,063.27	105.07	36.99	94.13	1,635.04	-209.42	6,886.62	6,779.92	106.70	64.542		
14,500.00	7,730.00	8,264.00	8,063.27	105.86	36.99	94.13	1,635.04	-209.42	6,959.47	6,852.62	106.84	65.136		
14,600.00	7,730.00	8,264.00	8,063.27	106.70	36.99	94.13	1,635.04	-209.42	7,032.98	6,926.00	106.98	65.739		
14,700.00	7,730.00	8,264.00	8,063.27	107.57	36.99	94.13	1,635.04	-209.42	7,107.15	7,000.03	107.12	66.349		
14,800.00	7,730.00	8,264.00	8,063.27	108.48	36.99	94.13	1,635.04	-209.42	7,181.93	7,074.69	107.24	66.968		
14,900.00	7,730.00	8,264.00	8,063.27	109.43	36.99	94.13	1,635.04	-209.42	7,257.33	7,149.96	107.37	67.593		
15,000.00	7,730.00	8,264.00	8,063.27	110.42	36.99	94.13	1,635.04	-209.42	7,333.32	7,225.83	107.48	68.227		
15,100.00	7,730.00	8,264.00	8,063.27	111.43	36.99	94.13	1,635.04	-209.42	7,409.87	7,302.27	107.60	68.867		
15,200.00	7,730.00	8,264.00	8,063.27	112.49	36.99	94.13	1,635.04	-209.42	7,486.98	7,379.27	107.71	69.513		
15,300.00	7,730.00	8,264.00	8,063.27	113.57	36.99	94.13	1,635.04	-209.42	7,564.62	7,456.81	107.81	70.166		
15,400.00	7,730.00	8,264.00	8,063.27	114.68	36.99	94.13	1,635.04	-209.42	7,642.79	7,534.88	107.91	70.826		
15,500.00	7,730.00	8,264.00	8,063.27	115.82	36.99	94.13	1,635.04	-209.42	7,721.45	7,613.45	108.01	71.492		
15,600.00	7,730.00	8,264.00	8,063.27	116.99	36.99	94.13	1,635.04	-209.42	7,800.61	7,692.51	108.10	72.163		
15,700.00	7,730.00	8,264.00	8,063.27	118.19	36.99	94.13	1,635.04	-209.42	7,880.24	7,772.06	108.19	72.840		
15,800.00	7,730.00	8,264.00	8,063.27	119.41	36.99	94.13	1,635.04	-209.42	7,960.33	7,852.06	108.27	73.523		
15,900.00	7,730.00	8,264.00	8,063.27	120.65	36.99	94.13	1,635.04	-209.42	8,040.87	7,932.51	108.35	74.210		
16,000.00	7,730.00	8,264.00	8,063.27	121.91	36.99	94.13	1,635.04	-209.42	8,121.84	8,013.40	108.43	74.903		
16,100.00	7,730.00	8,264.00	8,063.27	123.20	36.99	94.13	1,635.04	-209.42	8,203.22	8,094.72	108.51	75.601		
16,200.00	7,730.00	8,264.00	8,063.27	124.50	36.99	94.13	1,635.04	-209.42	8,285.02	8,176.44	108.58	76.304		
16,300.00	7,730.00	8,264.00	8,063.27	125.82	36.99	94.13	1,635.04	-209.42	8,367.21	8,258.56	108.65	77.011		
16,400.00	7,730.00	8,264.00	8,063.27	127.16	36.99	94.13	1,635.04	-209.42	8,449.79	8,341.07	108.72	77.722		
16,500.00	7,730.00	8,264.00	8,063.27	128.52	36.99	94.13	1,635.04	-209.42	8,532.73	8,423.95	108.78	78.438		
16,600.00	7,730.00	8,264.00	8,063.27	129.89	36.99	94.13	1,635.04	-209.42	8,616.04	8,507.20	108.85	79.158		
16,700.00	7,730.00	8,264.00	8,063.27	131.27	36.99	94.13	1,635.04	-209.42	8,699.71	8,590.80	108.91	79.881		
16,800.00	7,730.00	8,264.00	8,063.27	132.67	36.99	94.13	1,635.04	-209.42	8,783.71	8,674.74	108.97	80.609		
16,900.00	7,730.00	8,264.00	8,063.27	134.09	36.99	94.13	1,635.04	-209.42	8,868.05	8,759.02	109.02	81.340		
17,000.00	7,730.00	8,264.00	8,063.27	135.51	36.99	94.13	1,635.04	-209.42	8,952.70	8,843.62	109.08	82.075		
17,100.00	7,730.00	8,264.00	8,063.27	136.95	36.99	94.13	1,635.04	-209.42	9,037.67	8,928.54	109.13	82.813		
17,200.00	7,730.00	8,264.00	8,063.27	138.40	36.99	94.13	1,635.04	-209.42	9,122.95	9,013.77	109.19	83.555		
17,300.00	7,730.00	8,264.00	8,063.27	139.85	36.99	94.13	1,635.04	-209.42	9,208.52	9,099.29	109.24	84.299		
17,400.00	7,730.00	8,264.00	8,063.27	141.32	36.99	94.13	1,635.04	-209.42	9,294.38	9,185.10	109.29	85.047		
17,500.00	7,730.00	8,264.00	8,063.27	142.80	36.99	94.13	1,635.04	-209.42	9,380.52	9,271.19	109.33	85.798		
17,600.00	7,730.00	8,264.00	8,063.27	144.28	36.99	94.13	1,635.04	-209.42	9,466.94	9,357.56	109.38	86.551		
17,700.00	7,730.00	8,264.00	8,063.27	145.78	36.99	94.13	1,635.04	-209.42	9,553.62	9,444.19	109.42	87.308		
17,800.00	7,730.00	8,264.00	8,063.27	147.28	36.99	94.13	1,635.04	-209.42	9,640.55	9,531.08	109.47	88.067		
17,900.00	7,730.00	8,264.00	8,063.27	148.79	36.99	94.13	1,635.04	-209.42	9,727.74	9,618.23	109.51	88.828		
18,000.00	7,730.00	8,264.00	8,063.27	150.31	36.99	94.13	1,635.04	-209.42	9,815.17	9,705.62	109.55	89.592		
18,100.00	7,730.00	8,264.00	8,063.27	151.83	36.99	94.13	1,635.04	-209.42	9,902.84	9,793.25	109.59	90.359		
18,200.00	7,730.00	8,264.00	8,063.27	153.37	36.99	94.13	1,635.04	-209.42	9,990.74	9,881.11	109.64	91.127		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-29.74	218.57	-124.88	251.86				
100.00	100.00	91.44	91.44	0.13	0.14	-29.78	218.57	-125.08	251.84	251.56	0.28	903.976	
200.00	200.00	192.06	192.06	0.49	0.47	-29.91	218.42	-125.63	251.97	251.01	0.97	260.905	
300.00	300.00	294.96	294.95	0.85	0.84	-30.13	217.47	-126.21	251.46	249.77	1.69	148.711	
400.00	400.00	404.24	404.15	1.21	1.23	-30.64	213.42	-126.40	248.34	245.90	2.44	101.668	
500.00	500.00	511.58	511.16	1.57	1.63	-31.73	205.16	-126.85	241.97	238.78	3.19	75.823	
600.00	599.98	619.66	618.48	1.92	2.05	-99.54	192.41	-127.57	232.65	228.71	3.94	58.978	
700.00	699.84	729.16	726.55	2.28	2.51	-103.68	174.86	-126.74	220.19	215.47	4.71	46.739	
800.00	799.45	833.28	828.30	2.64	2.99	-109.94	152.84	-125.36	205.56	200.07	5.49	37.431	
900.00	898.70	930.97	923.01	3.02	3.48	-118.21	128.97	-124.26	192.85	186.53	6.33	30.486	
1,000.00	997.47	1,025.19	1,013.84	3.41	3.98	-128.28	103.92	-123.93	186.22	178.99	7.23	25.751	
1,024.49	1,021.57	1,047.94	1,035.73	3.52	4.10	-130.91	97.75	-123.89	185.93	178.46	7.46	24.913 CC, ES	
1,100.00	1,095.62	1,117.93	1,102.98	3.84	4.49	-139.25	78.33	-123.88	188.79	180.60	8.19	23.057	
1,200.00	1,193.06	1,208.47	1,189.62	4.29	5.01	-150.07	52.03	-124.03	202.10	192.97	9.13	22.140 SF	
1,300.00	1,289.64	1,299.40	1,276.47	4.78	5.54	-159.88	25.13	-124.05	225.97	215.95	10.02	22.561	
1,400.00	1,385.27	1,388.88	1,361.80	5.32	6.08	-168.10	-1.81	-122.98	258.04	247.19	10.85	23.786	
1,500.00	1,479.82	1,475.30	1,443.88	5.90	6.61	-174.77	-28.80	-121.51	297.55	285.92	11.63	25.578	
1,600.00	1,573.17	1,560.06	1,524.47	6.53	7.13	-179.98	-54.99	-120.04	343.06	330.66	12.40	27.657	
1,700.00	1,665.21	1,643.32	1,603.47	7.23	7.65	-175.81	-81.25	-118.48	393.69	380.52	13.17	29.886	
1,800.00	1,755.84	1,729.67	1,685.58	7.98	8.19	-172.36	-107.89	-116.43	447.87	433.88	13.99	32.009	
1,900.00	1,844.94	1,813.70	1,765.71	8.80	8.71	-169.68	-133.11	-114.01	504.93	490.12	14.81	34.094	
2,000.00	1,932.39	1,894.14	1,842.44	9.68	9.20	-167.53	-157.08	-111.31	564.83	549.21	15.62	36.163	
2,100.00	2,018.11	1,982.27	1,926.75	10.63	9.74	-165.66	-182.49	-107.91	626.93	610.41	16.52	37.949	
2,200.00	2,101.97	2,063.64	2,005.03	11.65	10.21	-164.29	-204.45	-104.56	690.75	673.38	17.37	39.764	
2,300.00	2,183.88	2,135.64	2,074.47	12.74	10.63	-163.25	-223.29	-101.83	756.99	738.84	18.15	41.709	
2,400.00	2,263.74	2,204.34	2,140.75	13.90	11.02	-162.35	-241.26	-99.78	826.17	807.27	18.91	43.694	
2,431.61	2,288.54	2,226.87	2,162.51	14.29	11.15	-162.10	-247.06	-99.21	848.56	829.40	19.16	44.286	
2,500.00	2,341.97	2,275.42	2,209.48	15.13	11.42	-162.00	-259.32	-98.16	897.25	877.55	19.70	45.551	
2,600.00	2,420.08	2,332.57	2,264.77	16.37	11.74	-161.94	-273.73	-97.43	968.91	948.56	20.34	47.630	
2,700.00	2,498.20	2,389.30	2,319.61	17.63	12.06	-161.90	-288.26	-97.44	1,041.44	1,020.46	20.98	49.634	
2,800.00	2,576.32	2,445.73	2,374.16	18.89	12.38	-161.91	-302.68	-98.28	1,114.75	1,093.13	21.62	51.568	
2,900.00	2,654.43	2,509.00	2,435.36	20.17	12.73	-161.97	-318.61	-100.06	1,188.60	1,166.29	22.32	53.262	
3,000.00	2,732.55	2,581.87	2,505.98	21.45	13.13	-162.07	-336.45	-102.57	1,262.50	1,239.38	23.12	54.612	
3,100.00	2,810.67	2,668.27	2,589.57	22.74	13.62	-162.08	-358.24	-103.73	1,335.58	1,311.50	24.07	55.478	
3,200.00	2,888.78	2,745.86	2,664.47	24.03	14.06	-162.00	-378.47	-103.34	1,408.03	1,383.07	24.96	56.413	
3,300.00	2,966.90	2,801.94	2,718.44	25.33	14.39	-161.91	-393.68	-102.69	1,480.60	1,454.96	25.63	57.758	
3,400.00	3,045.02	2,883.24	2,796.42	26.63	14.87	-161.74	-416.66	-101.38	1,553.47	1,526.87	26.60	58.410	
3,500.00	3,123.13	2,966.52	2,876.37	27.94	15.37	-161.55	-439.82	-98.67	1,625.17	1,597.58	27.59	58.904	
3,600.00	3,201.25	3,028.73	2,936.06	29.24	15.74	-161.42	-457.22	-96.64	1,696.99	1,668.63	28.36	59.842	
3,700.00	3,279.37	3,085.99	2,990.87	30.55	16.09	-161.30	-473.66	-94.84	1,769.21	1,740.14	29.08	60.847	
3,800.00	3,357.49	3,139.16	3,041.64	31.86	16.42	-161.17	-489.41	-93.26	1,841.94	1,812.19	29.75	61.912	
3,900.00	3,435.60	3,188.18	3,088.42	33.18	16.72	-161.08	-504.03	-92.33	1,915.34	1,884.96	30.38	63.054	
4,000.00	3,513.72	3,261.74	3,158.69	34.49	17.18	-160.97	-525.76	-91.68	1,989.15	1,957.87	31.28	63.587	
4,100.00	3,591.84	3,356.09	3,249.17	35.81	17.75	-160.87	-552.47	-90.56	2,062.26	2,029.84	32.42	63.607	
4,200.00	3,669.95	3,437.02	3,326.86	37.12	18.23	-160.78	-575.09	-88.73	2,134.61	2,101.19	33.41	63.888	
4,300.00	3,748.07	3,490.00	3,377.62	38.44	18.55	-160.71	-590.17	-87.19	2,206.93	2,172.84	34.09	64.742	
4,400.00	3,826.19	3,542.99	3,428.27	39.76	18.88	-160.63	-605.69	-85.77	2,279.74	2,244.97	34.77	65.564	
4,500.00	3,904.30	3,584.00	3,467.35	41.08	19.14	-160.57	-618.11	-84.99	2,353.35	2,318.04	35.31	66.645	
4,600.00	3,982.42	3,627.40	3,508.66	42.40	19.41	-160.52	-631.42	-84.62	2,427.69	2,391.81	35.88	67.670	
4,700.00	4,060.54	3,677.00	3,555.88	43.72	19.72	-160.47	-646.58	-84.94	2,502.71	2,466.20	36.51	68.546	
4,800.00	4,138.66	3,729.37	3,605.77	45.05	20.05	-160.44	-662.47	-85.79	2,578.14	2,540.97	37.17	69.359	
4,900.00	4,216.77	3,800.38	3,673.52	46.37	20.49	-160.41	-683.70	-87.19	2,653.59	2,615.54	38.05	69.735	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,884.02	3,753.43	47.69	21.00	160.39	-708.36	-88.60	2,728.72	2,689.64	39.08	69.821		
5,100.00	4,373.01	3,976.38	3,841.74	49.02	21.57	160.35	-735.37	-89.44	2,803.36	2,763.14	40.22	69.707		
5,200.00	4,451.12	4,118.58	3,978.20	50.34	22.42	160.31	-775.35	-89.02	2,876.95	2,835.03	41.92	68.632		
5,300.00	4,529.24	4,193.92	4,050.92	51.67	22.86	160.31	-795.04	-88.27	2,949.16	2,906.33	42.83	68.851		
5,400.00	4,607.36	4,242.00	4,097.36	52.99	23.13	160.32	-807.50	-88.14	3,021.70	2,978.26	43.44	69.560		
5,500.00	4,685.47	4,281.99	4,135.95	54.32	23.36	160.34	-817.99	-88.34	3,094.80	3,050.85	43.95	70.414		
5,600.00	4,763.59	4,317.37	4,170.03	55.64	23.57	160.34	-827.50	-88.82	3,168.61	3,124.21	44.41	71.353		
5,700.00	4,841.71	4,370.22	4,220.84	56.97	23.88	160.36	-841.96	-89.94	3,243.01	3,197.95	45.06	71.971		
5,800.00	4,919.83	4,441.76	4,289.69	58.30	24.30	160.39	-861.34	-91.59	3,317.41	3,271.48	45.93	72.234		
5,900.00	4,997.94	4,480.13	4,326.57	59.62	24.52	160.40	-871.89	-92.59	3,392.10	3,345.69	46.41	73.085		
6,000.00	5,076.06	4,523.42	4,368.09	60.95	24.78	160.41	-884.05	-93.84	3,467.24	3,420.28	46.96	73.839		
6,100.00	5,154.18	4,598.27	4,439.78	62.28	25.23	160.42	-905.49	-95.83	3,542.50	3,494.62	47.88	73.992		
6,200.00	5,232.29	4,836.87	4,669.10	63.61	26.64	160.40	-971.24	-96.52	3,615.99	3,565.31	50.68	71.347		
6,300.00	5,310.41	5,051.37	4,877.98	64.93	27.78	160.51	-1,019.85	-93.16	3,685.87	3,632.85	53.03	69.507		
6,400.00	5,388.53	5,143.13	4,967.85	66.26	28.23	160.59	-1,038.27	-91.38	3,754.79	3,700.74	54.05	69.467		
6,500.00	5,466.64	5,397.80	5,220.04	67.59	29.28	161.13	-1,072.89	-92.32	3,822.46	3,766.12	56.34	67.849		
6,600.00	5,544.76	5,756.23	5,578.07	68.92	30.24	162.30	-1,084.17	-91.80	3,882.42	3,823.68	58.74	66.095		
6,700.00	5,622.88	5,833.99	5,655.82	70.25	30.41	162.56	-1,083.85	-91.01	3,942.17	3,882.78	59.39	66.382		
6,800.00	5,701.00	5,902.39	5,724.22	71.58	30.56	162.79	-1,083.50	-90.50	4,002.09	3,942.11	59.98	66.725		
6,900.00	5,779.11	5,977.64	5,799.47	72.91	30.72	163.03	-1,083.16	-90.08	4,062.22	4,001.61	60.61	67.028		
7,000.00	5,857.23	6,055.58	5,877.41	74.23	30.88	163.28	-1,082.81	-89.67	4,122.41	4,061.17	61.24	67.310		
7,100.00	5,935.35	6,131.97	5,953.80	75.56	31.05	163.52	-1,082.39	-89.35	4,182.68	4,120.80	61.87	67.600		
7,200.00	6,013.46	6,205.91	6,027.73	76.89	31.20	163.74	-1,081.91	-89.18	4,243.06	4,180.58	62.49	67.904		
7,300.00	6,091.58	6,273.39	6,095.21	78.22	31.35	163.95	-1,081.46	-89.19	4,303.63	4,240.57	63.06	68.246		
7,400.00	6,169.70	6,336.11	6,157.93	79.55	31.48	164.13	-1,081.09	-89.38	4,364.47	4,300.87	63.61	68.616		
7,500.00	6,247.81	6,412.39	6,234.20	80.88	31.65	164.36	-1,080.77	-89.80	4,425.59	4,361.36	64.23	68.903		
7,600.00	6,325.93	6,515.83	6,337.65	82.21	31.88	164.65	-1,080.13	-90.16	4,486.54	4,421.54	65.00	69.023		
7,700.00	6,404.05	6,594.44	6,416.25	83.54	32.05	164.86	-1,079.38	-90.16	4,547.16	4,481.52	65.64	69.278		
7,800.00	6,482.17	6,664.80	6,486.61	84.87	32.21	165.05	-1,078.86	-90.30	4,608.02	4,541.79	66.23	69.580		
7,900.00	6,560.28	6,762.46	6,584.26	86.20	32.42	165.31	-1,077.82	-90.49	4,668.79	4,601.82	66.97	69.717		
8,000.00	6,638.40	6,859.99	6,681.78	87.53	32.64	165.56	-1,076.55	-90.31	4,729.22	4,661.51	67.71	69.844		
8,100.00	6,716.52	6,955.76	6,777.54	88.86	32.86	165.78	-1,075.62	-89.56	4,789.49	4,721.03	68.46	69.962		
8,200.00	6,794.63	7,051.84	6,873.61	90.20	33.09	166.00	-1,074.82	-88.09	4,849.34	4,780.12	69.22	70.058		
8,300.00	6,872.75	7,119.57	6,941.33	91.53	33.25	166.14	-1,074.45	-86.94	4,909.27	4,839.45	69.82	70.312		
8,400.00	6,950.87	7,176.99	6,998.75	92.86	33.40	166.26	-1,074.28	-86.12	4,969.51	4,899.14	70.36	70.626		
8,500.00	7,028.98	7,235.80	7,057.55	94.19	33.54	166.38	-1,074.19	-85.52	5,030.11	4,959.19	70.91	70.935		
8,600.00	7,107.10	7,298.00	7,119.75	95.52	33.70	166.51	-1,074.08	-85.18	5,091.02	5,019.55	71.48	71.227		
8,647.91	7,144.53	7,320.48	7,142.23	96.16	33.76	166.56	-1,074.06	-85.14	5,120.33	5,048.63	71.70	71.411		
8,650.00	7,146.16	7,321.54	7,143.29	96.18	33.76	166.18	-1,074.06	-85.14	5,121.61	5,049.90	71.71	71.418		
8,700.00	7,185.66	7,347.15	7,168.90	96.84	33.83	157.05	-1,074.09	-85.12	5,151.25	5,079.28	71.96	71.581		
8,750.00	7,225.78	7,373.06	7,194.81	97.47	33.90	147.91	-1,074.18	-85.16	5,178.89	5,106.67	72.22	71.710		
8,800.00	7,266.21	7,423.89	7,245.64	98.08	34.03	139.02	-1,074.47	-85.25	5,204.32	5,131.68	72.64	71.644		
8,850.00	7,306.63	7,507.74	7,329.48	98.64	34.26	130.69	-1,075.02	-84.63	5,226.98	5,153.70	73.28	71.329		
8,900.00	7,346.75	7,560.94	7,382.67	99.17	34.41	122.79	-1,075.52	-83.82	5,246.89	5,173.16	73.73	71.167		
8,950.00	7,386.25	7,599.62	7,421.35	99.64	34.52	115.54	-1,075.99	-83.09	5,264.03	5,189.95	74.08	71.062		
9,000.00	7,424.84	7,630.92	7,452.64	100.06	34.61	109.07	-1,076.45	-82.50	5,278.43	5,204.06	74.37	70.972		
9,050.00	7,462.22	7,661.34	7,483.05	100.42	34.70	103.47	-1,076.96	-81.94	5,290.04	5,215.38	74.66	70.860		
9,100.00	7,498.11	7,687.70	7,509.40	100.74	34.78	98.70	-1,077.45	-81.47	5,298.81	5,223.91	74.90	70.745		
9,150.00	7,532.24	7,711.17	7,532.86	100.99	34.84	94.71	-1,077.90	-81.10	5,304.73	5,229.61	75.11	70.621		
9,200.00	7,564.34	7,733.27	7,554.95	101.19	34.91	91.47	-1,078.34	-80.80	5,307.80	5,232.49	75.31	70.481		
9,250.00	7,594.17	7,753.83	7,575.51	101.34	34.97	88.91	-1,078.76	-80.57	5,308.03	5,232.55	75.48	70.324		
9,300.00	7,621.50	7,766.00	7,587.68	101.45	35.01	86.90	-1,079.01	-80.45	5,305.44	5,229.86	75.58	70.195		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,766.00	7,587.68	101.50	35.01	85.36	-1,079.01	-80.45	5,300.15	5,224.56	75.59	70.120		
9,400.00	7,667.87	7,794.54	7,616.21	101.51	35.09	84.62	-1,079.63	-80.26	5,292.04	5,216.25	75.79	69.827		
9,450.00	7,686.55	7,804.20	7,625.87	101.48	35.12	84.22	-1,079.86	-80.23	5,281.36	5,205.51	75.85	69.630		
9,500.00	7,702.04	7,812.33	7,633.99	101.42	35.15	84.29	-1,080.06	-80.21	5,268.13	5,192.23	75.90	69.413		
9,550.00	7,714.20	7,818.87	7,640.53	101.33	35.17	84.81	-1,080.22	-80.21	5,252.45	5,176.51	75.93	69.173		
9,600.00	7,722.96	7,823.76	7,645.42	101.20	35.18	85.79	-1,080.35	-80.21	5,234.42	5,158.46	75.96	68.911		
9,650.00	7,728.24	7,826.98	7,648.64	101.06	35.19	87.22	-1,080.43	-80.22	5,214.17	5,138.19	75.98	68.623		
9,699.97	7,730.00	7,828.49	7,650.15	100.90	35.20	89.10	-1,080.47	-80.22	5,191.86	5,115.85	76.00	68.311		
9,800.00	7,730.00	7,829.78	7,651.44	100.56	35.20	89.12	-1,080.50	-80.22	5,145.96	5,069.90	76.06	67.656		
9,900.00	7,730.00	7,831.08	7,652.74	100.24	35.20	89.14	-1,080.54	-80.23	5,101.62	5,025.47	76.15	66.992		
10,000.00	7,730.00	7,832.39	7,654.05	99.93	35.21	89.15	-1,080.57	-80.23	5,058.87	4,982.59	76.28	66.319		
10,100.00	7,730.00	7,833.72	7,655.37	99.64	35.21	89.17	-1,080.61	-80.23	5,017.75	4,941.30	76.45	65.636		
10,200.00	7,730.00	7,835.05	7,656.71	99.36	35.22	89.19	-1,080.64	-80.24	4,978.30	4,901.64	76.65	64.945		
10,300.00	7,730.00	7,836.40	7,658.06	99.09	35.22	89.20	-1,080.68	-80.24	4,940.55	4,863.65	76.90	64.245		
10,400.00	7,730.00	7,837.76	7,659.42	98.84	35.22	89.22	-1,080.72	-80.25	4,904.56	4,827.37	77.19	63.537		
10,500.00	7,730.00	7,839.13	7,660.79	98.61	35.23	89.24	-1,080.75	-80.25	4,870.35	4,792.82	77.52	62.824		
10,600.00	7,730.00	7,840.52	7,662.17	98.39	35.23	89.25	-1,080.79	-80.26	4,837.96	4,760.07	77.90	62.107		
10,700.00	7,730.00	7,859.00	7,680.65	98.18	35.29	89.48	-1,081.31	-80.36	4,807.50	4,729.03	78.47	61.268		
10,800.00	7,730.00	7,859.00	7,680.65	97.99	35.29	89.48	-1,081.31	-80.36	4,778.86	4,699.95	78.91	60.558		
10,900.00	7,730.00	7,859.00	7,680.65	97.81	35.29	89.48	-1,081.31	-80.36	4,752.16	4,672.76	79.40	59.850		
11,000.00	7,730.00	7,859.00	7,680.65	97.64	35.29	89.48	-1,081.31	-80.36	4,727.42	4,647.49	79.93	59.146		
11,100.00	7,730.00	7,859.00	7,680.65	97.50	35.29	89.48	-1,081.31	-80.36	4,704.68	4,624.19	80.49	58.448		
11,200.00	7,730.00	7,859.00	7,680.65	97.36	35.29	89.48	-1,081.31	-80.36	4,683.96	4,602.87	81.09	57.759		
11,300.00	7,730.00	7,859.00	7,680.65	97.24	35.29	89.48	-1,081.31	-80.36	4,665.30	4,583.57	81.73	57.082		
11,400.00	7,730.00	7,859.00	7,680.65	97.14	35.29	89.48	-1,081.31	-80.36	4,648.71	4,566.31	82.40	56.418		
11,500.00	7,730.00	7,859.00	7,680.65	97.06	35.29	89.48	-1,081.31	-80.36	4,634.22	4,551.12	83.10	55.770		
11,600.00	7,730.00	7,859.00	7,680.65	96.98	35.29	89.48	-1,081.31	-80.36	4,621.85	4,538.03	83.82	55.140		
11,700.00	7,730.00	7,859.00	7,680.65	96.93	35.29	89.48	-1,081.31	-80.36	4,611.61	4,527.04	84.57	54.531		
11,800.00	7,730.00	7,859.00	7,680.65	96.90	35.29	89.48	-1,081.31	-80.36	4,603.52	4,518.19	85.34	53.944		
11,900.00	7,730.00	7,859.00	7,680.65	96.88	35.29	89.48	-1,081.31	-80.36	4,597.60	4,511.47	86.13	53.382		
12,000.00	7,730.00	7,859.00	7,680.65	96.88	35.29	89.48	-1,081.31	-80.36	4,593.85	4,506.92	86.93	52.845		
12,100.00	7,730.00	7,859.00	7,680.65	96.90	35.29	89.48	-1,081.31	-80.36	4,592.27	4,504.52	87.75	52.336		
12,122.55	7,730.00	7,859.00	7,680.65	96.90	35.29	89.48	-1,081.31	-80.36	4,592.21	4,504.28	87.93	52.223		
12,200.00	7,730.00	7,859.00	7,680.65	96.94	35.29	89.48	-1,081.31	-80.36	4,592.86	4,504.29	88.57	51.856		
12,300.00	7,730.00	7,859.00	7,680.65	97.00	35.29	89.48	-1,081.31	-80.36	4,595.64	4,506.24	89.40	51.405		
12,400.00	7,730.00	7,859.00	7,680.65	97.08	35.29	89.48	-1,081.31	-80.36	4,600.58	4,510.35	90.23	50.985		
12,500.00	7,730.00	7,859.00	7,680.65	97.18	35.29	89.48	-1,081.31	-80.36	4,607.70	4,516.63	91.07	50.596		
12,600.00	7,730.00	7,859.00	7,680.65	97.31	35.29	89.48	-1,081.31	-80.36	4,616.96	4,525.06	91.90	50.239		
12,700.00	7,730.00	7,859.00	7,680.65	97.46	35.29	89.48	-1,081.31	-80.36	4,628.37	4,535.65	92.73	49.914		
12,800.00	7,730.00	7,859.00	7,680.65	97.64	35.29	89.48	-1,081.31	-80.36	4,641.91	4,548.36	93.55	49.621		
12,900.00	7,730.00	7,859.00	7,680.65	97.85	35.29	89.48	-1,081.31	-80.36	4,657.56	4,563.20	94.36	49.361		
13,000.00	7,730.00	7,859.00	7,680.65	98.09	35.29	89.48	-1,081.31	-80.36	4,675.29	4,580.13	95.16	49.133		
13,100.00	7,730.00	7,859.00	7,680.65	98.35	35.29	89.48	-1,081.31	-80.36	4,695.08	4,599.14	95.94	48.937		
13,200.00	7,730.00	7,859.00	7,680.65	98.65	35.29	89.48	-1,081.31	-80.36	4,716.92	4,620.20	96.71	48.773		
13,300.00	7,730.00	7,859.00	7,680.65	98.98	35.29	89.48	-1,081.31	-80.36	4,740.76	4,643.29	97.47	48.640		
13,400.00	7,730.00	7,859.00	7,680.65	99.34	35.29	89.48	-1,081.31	-80.36	4,766.58	4,668.38	98.20	48.539		
13,500.00	7,730.00	7,880.97	7,702.60	99.74	35.36	89.76	-1,081.96	-80.59	4,794.24	4,695.14	99.10	48.379		
13,600.00	7,730.00	7,882.38	7,704.02	100.17	35.36	89.78	-1,082.00	-80.61	4,823.91	4,724.10	99.80	48.334		
13,700.00	7,730.00	7,883.81	7,705.45	100.65	35.36	89.79	-1,082.04	-80.63	4,855.45	4,754.96	100.49	48.318		
13,800.00	7,730.00	7,885.25	7,706.89	101.16	35.37	89.81	-1,082.09	-80.65	4,888.84	4,787.69	101.15	48.331		
13,900.00	7,730.00	7,886.70	7,708.34	101.71	35.37	89.83	-1,082.13	-80.67	4,924.03	4,822.24	101.80	48.371		
14,000.00	7,730.00	7,888.16	7,709.80	102.30	35.38	89.85	-1,082.18	-80.70	4,960.99	4,858.57	102.42	48.439		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 107-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,889.64	7,711.27	102.93	35.38	89.87	-1,082.22	-80.72	4,999.67	4,896.66	103.01	48.534		
14,200.00	7,730.00	7,891.12	7,712.75	103.60	35.39	89.88	-1,082.27	-80.74	5,040.04	4,936.45	103.59	48.654		
14,300.00	7,730.00	7,892.61	7,714.24	104.32	35.39	89.90	-1,082.31	-80.77	5,082.06	4,977.92	104.14	48.799		
14,400.00	7,730.00	7,894.11	7,715.74	105.07	35.40	89.92	-1,082.36	-80.79	5,125.68	5,021.01	104.67	48.969		
14,500.00	7,730.00	7,895.63	7,717.26	105.86	35.40	89.94	-1,082.41	-80.82	5,170.87	5,065.69	105.18	49.162		
14,600.00	7,730.00	7,897.16	7,718.78	106.70	35.41	89.96	-1,082.46	-80.85	5,217.58	5,111.91	105.67	49.378		
14,700.00	7,730.00	7,898.69	7,720.32	107.57	35.41	89.98	-1,082.51	-80.87	5,265.78	5,159.65	106.13	49.615		
14,800.00	7,730.00	7,900.24	7,721.87	108.48	35.42	90.00	-1,082.56	-80.90	5,315.42	5,208.84	106.58	49.874		
14,900.00	7,730.00	7,901.80	7,723.43	109.43	35.42	90.02	-1,082.61	-80.93	5,366.46	5,259.46	107.00	50.154		
15,000.00	7,730.00	7,903.38	7,725.00	110.42	35.43	90.04	-1,082.66	-80.96	5,418.87	5,311.46	107.40	50.453		
15,100.00	7,730.00	7,904.96	7,726.58	111.43	35.43	90.06	-1,082.71	-80.99	5,472.60	5,364.81	107.79	50.772		
15,200.00	7,730.00	8,314.29	8,135.25	112.49	36.78	95.15	-1,102.72	-76.19	5,527.92	5,417.11	110.81	49.886		
15,300.00	7,730.00	8,337.70	8,158.57	113.57	36.86	95.44	-1,104.53	-75.26	5,583.81	5,472.55	111.27	50.184		
15,400.00	7,730.00	15,400.00	8,126.11	114.68	62.30	95.03	-1,102.21	-76.55	5,640.88	5,506.56	134.33	41.994		
15,500.00	7,730.00	15,500.00	8,132.81	115.82	62.67	95.12	-1,102.67	-76.29	5,699.19	5,564.28	134.92	42.242		
15,600.00	7,730.00	15,600.00	8,139.52	116.99	63.04	95.20	-1,103.12	-76.02	5,758.65	5,623.15	135.49	42.501		
15,700.00	7,730.00	8,345.43	8,166.27	118.19	36.89	95.53	-1,105.10	-74.97	5,819.14	5,706.76	112.38	51.779		
15,800.00	7,730.00	8,349.44	8,170.26	119.41	36.91	95.58	-1,105.40	-74.82	5,880.74	5,768.11	112.64	52.209		
15,900.00	7,730.00	8,353.39	8,174.21	120.65	36.92	95.63	-1,105.69	-74.67	5,943.38	5,830.51	112.88	52.654		
16,000.00	7,730.00	8,357.30	8,178.10	121.91	36.94	95.68	-1,105.98	-74.52	6,007.03	5,893.93	113.10	53.111		
16,100.00	7,730.00	8,361.15	8,181.94	123.20	36.95	95.73	-1,106.27	-74.38	6,071.65	5,958.33	113.31	53.582		
16,200.00	7,730.00	8,364.96	8,185.74	124.50	36.96	95.77	-1,106.55	-74.24	6,137.21	6,023.70	113.51	54.065		
16,300.00	7,730.00	8,368.72	8,189.48	125.82	36.98	95.82	-1,106.82	-74.11	6,203.69	6,089.99	113.70	54.561		
16,400.00	7,730.00	8,372.44	8,193.19	127.16	36.99	95.87	-1,107.09	-73.98	6,271.06	6,157.18	113.88	55.068		
16,500.00	7,730.00	8,376.11	8,196.84	128.52	37.00	95.91	-1,107.35	-73.85	6,339.28	6,225.24	114.04	55.586		
16,600.00	7,730.00	8,379.73	8,200.46	129.89	37.02	95.96	-1,107.61	-73.72	6,408.33	6,294.13	114.20	56.115		
16,700.00	7,730.00	8,383.31	8,204.02	131.27	37.03	96.00	-1,107.86	-73.60	6,478.19	6,363.84	114.35	56.654		
16,800.00	7,730.00	8,386.85	8,207.55	132.67	37.04	96.05	-1,108.11	-73.48	6,548.83	6,434.34	114.48	57.204		
16,900.00	7,730.00	8,390.34	8,211.03	134.09	37.05	96.09	-1,108.36	-73.36	6,620.21	6,505.60	114.61	57.763		
17,000.00	7,730.00	8,393.80	8,214.48	135.51	37.07	96.13	-1,108.60	-73.24	6,692.33	6,577.60	114.73	58.331		
17,100.00	7,730.00	8,397.21	8,217.88	136.95	37.08	96.17	-1,108.84	-73.13	6,765.15	6,650.31	114.84	58.908		
17,200.00	7,730.00	8,400.58	8,221.24	138.40	37.09	96.21	-1,109.07	-73.02	6,838.66	6,723.71	114.95	59.494		
17,300.00	7,730.00	8,420.00	8,240.61	139.85	37.16	96.45	-1,110.38	-72.40	6,912.87	6,797.74	115.13	60.044		
17,400.00	7,730.00	8,420.00	8,240.61	141.32	37.16	96.45	-1,110.38	-72.40	6,987.66	6,872.46	115.20	60.655		
17,500.00	7,730.00	8,420.00	8,240.61	142.80	37.16	96.45	-1,110.38	-72.40	7,063.08	6,947.81	115.27	61.274		
17,600.00	7,730.00	8,420.00	8,240.61	144.28	37.16	96.45	-1,110.38	-72.40	7,139.10	7,023.77	115.33	61.900		
17,700.00	7,730.00	8,420.00	8,240.61	145.78	37.16	96.45	-1,110.38	-72.40	7,215.71	7,100.32	115.39	62.533		
17,800.00	7,730.00	8,420.00	8,240.61	147.28	37.16	96.45	-1,110.38	-72.40	7,292.88	7,177.44	115.44	63.173		
17,900.00	7,730.00	8,420.00	8,240.61	148.79	37.16	96.45	-1,110.38	-72.40	7,370.60	7,255.11	115.49	63.820		
18,000.00	7,730.00	8,420.00	8,240.61	150.31	37.16	96.45	-1,110.38	-72.40	7,448.86	7,333.32	115.53	64.473		
18,100.00	7,730.00	8,420.00	8,240.61	151.83	37.16	96.45	-1,110.38	-72.40	7,527.63	7,412.05	115.57	65.133		
18,200.00	7,730.00	8,420.00	8,240.61	153.37	37.16	96.45	-1,110.38	-72.40	7,606.89	7,491.28	115.61	65.798		
18,300.00	7,730.00	8,420.00	8,240.61	154.90	37.16	96.45	-1,110.38	-72.40	7,686.65	7,571.00	115.64	66.469		
18,400.00	7,730.00	8,420.00	8,240.61	156.45	37.16	96.45	-1,110.38	-72.40	7,766.87	7,651.19	115.67	67.145		
18,500.00	7,730.00	8,420.00	8,240.61	158.00	37.16	96.45	-1,110.38	-72.40	7,847.54	7,731.84	115.70	67.827		
18,600.00	7,730.00	8,420.00	8,240.61	159.55	37.16	96.45	-1,110.38	-72.40	7,928.65	7,812.93	115.72	68.514		
18,700.00	7,730.00	8,444.78	8,265.32	161.11	37.25	96.76	-1,111.99	-71.67	8,010.10	7,894.24	115.86	69.134		
18,800.00	7,730.00	8,447.38	8,267.92	162.68	37.26	96.79	-1,112.15	-71.59	8,092.04	7,976.15	115.89	69.823		
18,900.00	7,730.00	8,449.96	8,270.49	164.25	37.26	96.82	-1,112.31	-71.52	8,174.38	8,058.45	115.92	70.516		
19,000.00	7,730.00	8,452.51	8,273.03	165.83	37.27	96.86	-1,112.47	-71.45	8,257.10	8,141.15	115.95	71.213		
19,100.00	7,730.00	8,455.03	8,275.55	167.41	37.28	96.89	-1,112.63	-71.39	8,340.20	8,224.23	115.97	71.915		
19,200.00	7,730.00	8,457.52	8,278.04	168.99	37.29	96.92	-1,112.78	-71.32	8,423.67	8,307.67	115.99	72.622		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		107-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,459.99	8,280.50	170.58	37.30	96.95	-1,112.93	-71.26	8,507.49	8,391.47	116.01	73.332	
19,400.00	7,730.00	8,462.43	8,282.94	172.17	37.31	96.98	-1,113.08	-71.19	8,591.65	8,475.62	116.03	74.045	
19,430.54	7,730.00	8,463.18	8,283.68	172.66	37.31	96.99	-1,113.13	-71.17	8,617.42	8,501.38	116.04	74.264	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-25.72	218.57	-105.28	242.74				
100.00	100.00	89.96	89.95	0.13	0.15	-25.66	219.03	-105.21	242.99	242.71	0.28	860.995	
200.00	200.00	192.41	192.40	0.49	0.42	-25.40	220.25	-104.57	243.82	242.91	0.91	268.076	
300.00	300.00	300.19	300.10	0.85	0.80	-24.59	220.02	-100.69	242.10	240.45	1.66	146.191	
400.00	400.00	406.52	406.06	1.21	1.20	-22.90	218.28	-92.23	237.38	234.98	2.41	98.649	
500.00	500.00	509.16	507.85	1.57	1.60	-20.10	216.39	-79.18	230.97	227.81	3.16	73.023	
600.00	599.98	615.90	613.19	1.92	2.06	-82.35	212.57	-62.38	222.31	218.35	3.96	56.132	
700.00	699.84	715.22	710.56	2.28	2.52	-79.34	208.17	-43.37	212.02	207.26	4.76	44.534	
800.00	799.45	807.57	800.44	2.64	2.99	-76.08	205.88	-22.31	202.86	197.27	5.59	36.321	
900.00	898.70	897.45	887.42	3.02	3.46	-72.69	208.97	0.06	198.98	192.54	6.44	30.895	
1,000.00	997.47	1,001.73	988.19	3.41	4.02	-69.38	212.72	26.63	195.00	187.59	7.41	26.299	
1,100.00	1,095.62	1,102.08	1,085.05	3.84	4.58	-66.91	214.60	52.78	188.56	180.16	8.40	22.460	
1,200.00	1,193.06	1,201.37	1,180.64	4.29	5.14	-65.01	216.55	79.55	181.13	171.73	9.41	19.257	
1,300.00	1,289.64	1,298.17	1,274.08	4.78	5.69	-64.34	219.23	104.67	173.15	162.73	10.42	16.616	
1,400.00	1,385.27	1,391.94	1,364.72	5.32	6.21	-64.97	224.25	128.12	166.25	154.81	11.44	14.528	
1,500.00	1,479.82	1,491.90	1,461.08	5.90	6.78	-66.58	231.52	153.76	159.86	147.28	12.58	12.711	
1,600.00	1,573.17	1,590.62	1,556.10	6.53	7.34	-69.35	238.68	179.50	152.29	138.52	13.77	11.057	
1,700.00	1,665.21	1,686.94	1,648.58	7.23	7.91	-73.29	246.95	205.16	145.29	130.26	15.03	9.666	
1,800.00	1,755.84	1,785.78	1,743.62	7.98	8.48	-79.34	256.13	230.69	139.20	122.84	16.37	8.505	
1,900.00	1,844.94	1,884.34	1,838.61	8.80	9.04	-87.58	265.03	255.39	134.58	116.90	17.68	7.610	
2,000.00	1,932.39	1,983.66	1,934.73	9.68	9.59	-98.47	271.85	279.42	131.99	113.18	18.81	7.018	
2,008.39	1,939.66	1,991.72	1,942.55	9.76	9.63	-99.45	272.32	281.34	131.96	113.08	18.88	6.988 CC, ES	
2,100.00	2,018.11	2,079.30	2,027.45	10.63	10.12	-110.55	277.41	302.25	134.96	115.44	19.52	6.915 SF	
2,200.00	2,101.97	2,174.20	2,119.24	11.65	10.66	-122.24	283.43	325.59	145.60	125.75	19.85	7.334	
2,300.00	2,183.88	2,267.15	2,209.05	12.74	11.18	-132.43	289.92	348.64	164.33	144.32	20.01	8.214	
2,400.00	2,263.74	2,357.30	2,296.47	13.90	11.68	-141.12	295.38	369.94	191.23	171.11	20.11	9.509	
2,431.61	2,288.54	2,385.57	2,323.94	14.29	11.83	-143.53	296.99	376.43	201.32	181.16	20.16	9.984	
2,500.00	2,341.97	2,446.68	2,383.35	15.13	12.16	-148.32	300.55	390.29	224.82	204.48	20.34	11.051	
2,600.00	2,420.08	2,537.89	2,472.04	16.37	12.66	-153.86	306.14	410.87	261.43	240.67	20.76	12.590	
2,700.00	2,498.20	2,634.08	2,565.25	17.63	13.19	-158.55	310.76	434.12	298.29	276.98	21.31	13.999	
2,800.00	2,576.32	2,723.49	2,651.84	18.89	13.70	-162.16	313.93	456.19	336.08	314.18	21.90	15.347	
2,900.00	2,654.43	2,817.41	2,742.69	20.17	14.23	-165.11	317.86	479.66	374.47	351.87	22.59	16.574	
3,000.00	2,732.55	2,908.08	2,830.31	21.45	14.75	-167.52	321.13	502.73	413.22	389.90	23.32	17.721	
3,100.00	2,810.67	2,999.88	2,919.00	22.74	15.28	-169.64	323.81	526.29	452.47	428.38	24.09	18.785	
3,200.00	2,888.78	3,094.22	3,010.03	24.03	15.83	-171.38	327.38	550.82	491.63	466.72	24.91	19.736	
3,300.00	2,966.90	3,182.47	3,095.23	25.33	16.34	-172.59	332.22	573.28	531.12	505.40	25.72	20.649	
3,400.00	3,045.02	3,273.82	3,183.51	26.63	16.86	-173.57	338.02	596.04	571.02	544.45	26.56	21.495	
3,500.00	3,123.13	3,358.39	3,265.36	27.94	17.34	-174.34	343.47	616.60	611.55	584.19	27.36	22.348	
3,600.00	3,201.25	3,448.44	3,352.66	29.24	17.84	-175.06	349.12	637.96	652.76	624.55	28.21	23.139	
3,700.00	3,279.37	3,532.86	3,434.56	30.55	18.30	-175.72	353.62	657.90	694.44	665.42	29.02	23.933	
3,800.00	3,357.49	3,626.65	3,525.60	31.86	18.82	-176.48	357.24	680.14	736.60	706.70	29.91	24.629	
3,900.00	3,435.60	3,713.08	3,609.44	33.18	19.30	-177.13	360.51	700.92	778.60	747.85	30.75	25.324	
4,000.00	3,513.72	3,806.24	3,699.91	34.49	19.81	-177.71	364.44	722.76	821.04	789.39	31.64	25.946	
4,100.00	3,591.84	3,895.44	3,786.43	35.81	20.31	-178.24	367.96	744.17	863.15	830.63	32.52	26.546	
4,200.00	3,669.95	3,984.20	3,872.62	37.12	20.79	-178.69	371.68	765.05	905.63	872.25	33.38	27.127	
4,300.00	3,748.07	4,071.62	3,957.56	38.44	21.27	-179.07	375.71	785.36	948.26	914.02	34.24	27.695	
4,400.00	3,826.19	4,158.53	4,042.14	39.76	21.73	-179.32	380.92	804.63	991.32	956.23	35.08	28.256	
4,500.00	3,904.30	4,250.95	4,132.08	41.08	22.23	-179.61	385.67	825.37	1,034.48	998.50	35.98	28.751	
4,600.00	3,982.42	4,336.89	4,215.66	42.40	22.69	-179.85	390.43	844.79	1,077.38	1,040.56	36.82	29.261	
4,700.00	4,060.54	4,414.68	4,291.56	43.72	23.10	-179.97	394.67	861.29	1,121.46	1,083.88	37.58	29.843	
4,800.00	4,138.66	4,493.35	4,368.47	45.05	23.65	-179.66	399.08	884.77	1,165.00	1,126.39	38.60	30.180	
4,900.00	4,216.77	4,607.16	4,478.89	46.37	24.13	-179.41	402.74	904.74	1,208.33	1,168.85	39.47	30.612	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,697.91	4,567.21	47.69	24.61	179.19	407.04	925.17	1,251.66	1,211.30	40.37	31.008		
5,100.00	4,373.01	4,781.14	4,648.20	49.02	25.06	178.99	410.59	943.97	1,295.14	1,253.95	41.19	31.441		
5,200.00	4,451.12	4,843.40	4,708.94	50.34	25.38	178.81	412.21	957.56	1,339.90	1,298.09	41.82	32.042		
5,300.00	4,529.24	4,902.61	4,766.91	51.67	25.67	178.63	412.81	969.60	1,386.53	1,344.13	42.39	32.705		
5,400.00	4,607.36	4,958.00	4,821.38	52.99	25.94	178.48	413.25	979.64	1,435.07	1,392.15	42.91	33.442		
5,500.00	4,685.47	5,022.55	4,885.09	54.32	26.22	178.35	413.68	990.04	1,485.24	1,441.73	43.51	34.135		
5,600.00	4,763.59	5,086.69	4,948.55	55.64	26.49	178.23	414.04	999.29	1,536.77	1,492.68	44.09	34.852		
5,700.00	4,841.71	5,152.02	5,013.32	56.97	26.75	178.14	414.32	1,007.83	1,589.41	1,544.73	44.68	35.571		
5,800.00	4,919.83	5,215.01	5,075.88	58.30	26.99	178.06	414.53	1,015.19	1,643.16	1,597.92	45.23	36.325		
5,900.00	4,997.94	5,271.70	5,132.27	59.62	27.19	178.01	414.67	1,020.98	1,698.08	1,652.37	45.70	37.155		
6,000.00	5,076.06	5,332.00	5,192.37	60.95	27.40	177.98	414.81	1,025.87	1,754.48	1,708.27	46.20	37.972		
6,100.00	5,154.18	5,380.44	5,240.72	62.28	27.55	177.98	414.91	1,028.94	1,812.14	1,765.59	46.55	38.929		
6,200.00	5,232.29	5,439.13	5,299.33	63.61	27.73	177.98	415.03	1,031.86	1,870.91	1,823.90	47.02	39.794		
6,300.00	5,310.41	5,505.84	5,365.99	64.93	27.92	177.99	415.10	1,034.54	1,930.43	1,882.85	47.58	40.576		
6,400.00	5,388.53	5,578.37	5,438.47	66.26	28.12	177.91	415.17	1,036.98	1,990.41	1,942.20	48.21	41.290		
6,500.00	5,466.64	5,644.63	5,504.71	67.59	28.31	178.04	415.34	1,038.88	2,050.71	2,001.95	48.76	42.059		
6,600.00	5,544.76	5,707.00	5,567.07	68.92	28.47	178.08	415.55	1,039.98	2,111.75	2,062.48	49.26	42.867		
6,700.00	5,622.88	5,765.43	5,625.50	70.25	28.62	178.11	415.72	1,040.45	2,173.47	2,123.76	49.71	43.722		
6,800.00	5,701.00	5,833.53	5,693.60	71.58	28.79	178.16	415.86	1,040.50	2,235.74	2,185.47	50.27	44.471		
6,900.00	5,779.11	5,909.31	5,769.38	72.91	28.97	178.22	416.15	1,040.34	2,298.17	2,247.25	50.92	45.130		
7,000.00	5,857.23	5,983.62	5,843.69	74.23	29.15	178.28	416.34	1,040.12	2,360.71	2,309.15	51.55	45.792		
7,100.00	5,935.35	6,057.82	5,917.89	75.56	29.32	178.33	416.48	1,039.80	2,423.37	2,371.19	52.18	46.442		
7,200.00	6,013.46	6,132.60	5,992.66	76.89	29.49	178.38	416.70	1,039.31	2,486.14	2,433.32	52.82	47.072		
7,300.00	6,091.58	6,208.39	6,068.45	78.22	29.67	178.43	416.93	1,038.72	2,549.00	2,495.53	53.46	47.677		
7,400.00	6,169.70	6,283.43	6,143.49	79.55	29.85	178.48	417.00	1,038.17	2,611.90	2,557.79	54.11	48.274		
7,500.00	6,247.81	6,352.36	6,212.41	80.88	30.01	178.52	417.03	1,037.50	2,674.99	2,620.31	54.68	48.922		
7,600.00	6,325.93	6,423.66	6,283.71	82.21	30.17	178.56	417.16	1,036.53	2,738.30	2,683.01	55.28	49.535		
7,700.00	6,404.05	6,496.30	6,356.34	83.54	30.34	178.61	417.42	1,035.32	2,801.76	2,745.86	55.90	50.122		
7,800.00	6,482.17	6,568.38	6,428.41	84.87	30.51	178.66	417.54	1,034.07	2,865.34	2,808.83	56.51	50.703		
7,900.00	6,560.28	6,636.82	6,496.84	86.20	30.67	178.69	417.30	1,032.86	2,929.11	2,872.03	57.09	51.309		
8,000.00	6,638.40	6,735.12	6,595.12	87.53	30.90	178.73	416.84	1,031.38	2,992.76	2,934.76	58.00	51.601		
8,100.00	6,716.52	6,868.48	6,728.48	88.86	31.25	178.79	417.34	1,030.85	3,055.30	2,996.00	59.30	51.521		
8,200.00	6,794.63	6,967.08	6,827.07	90.20	31.52	178.83	417.99	1,031.71	3,116.86	3,056.63	60.23	51.746		
8,300.00	6,872.75	7,048.73	6,908.72	91.53	31.75	178.85	418.49	1,032.71	3,178.21	3,117.23	60.98	52.115		
8,400.00	6,950.87	7,130.76	6,990.74	92.86	31.99	178.88	419.14	1,033.65	3,239.55	3,177.81	61.74	52.471		
8,500.00	7,028.98	7,224.35	7,084.31	94.19	32.26	178.91	419.94	1,035.08	3,300.60	3,237.98	62.62	52.708		
8,600.00	7,107.10	7,303.49	7,163.43	95.52	32.49	178.93	420.66	1,036.42	3,361.51	3,298.16	63.35	53.065		
8,647.91	7,144.53	7,334.46	7,194.40	96.16	32.58	178.94	421.01	1,036.86	3,390.74	3,327.12	63.62	53.296		
8,650.00	7,146.16	7,335.85	7,195.79	96.18	32.59	178.54	421.03	1,036.88	3,392.02	3,328.39	63.63	53.306		
8,700.00	7,185.66	7,369.32	7,229.26	96.84	32.68	168.98	421.52	1,037.24	3,421.89	3,357.97	63.92	53.532		
8,750.00	7,225.78	7,400.82	7,260.75	97.47	32.77	159.36	422.06	1,037.48	3,450.39	3,386.21	64.18	53.764		
8,800.00	7,266.21	7,428.24	7,288.17	98.08	32.85	149.84	422.47	1,037.60	3,477.37	3,413.00	64.37	54.019		
8,850.00	7,306.63	7,455.52	7,315.44	98.64	32.93	140.66	422.79	1,037.65	3,502.70	3,438.14	64.56	54.259		
8,900.00	7,346.75	7,484.00	7,343.92	99.17	33.01	132.05	423.03	1,037.63	3,526.21	3,461.47	64.74	54.469		
8,950.00	7,386.25	7,517.11	7,377.03	99.64	33.10	124.22	423.24	1,037.55	3,547.73	3,482.78	64.96	54.617		
9,000.00	7,424.84	7,551.36	7,411.28	100.06	33.19	117.26	423.44	1,037.42	3,567.12	3,501.95	65.18	54.730		
9,050.00	7,462.22	7,584.19	7,444.12	100.42	33.28	111.18	423.61	1,037.27	3,584.29	3,518.92	65.37	54.828		
9,100.00	7,498.11	7,614.46	7,474.38	100.74	33.36	105.95	423.77	1,037.08	3,599.19	3,533.65	65.54	54.918		
9,150.00	7,532.24	7,643.13	7,503.05	100.99	33.43	101.53	423.93	1,036.86	3,611.78	3,546.10	65.68	54.989		
9,200.00	7,564.34	7,669.98	7,529.90	101.19	33.50	97.85	424.09	1,036.60	3,622.03	3,556.22	65.81	55.039		
9,250.00	7,594.17	7,700.26	7,560.17	101.34	33.58	94.91	424.27	1,036.29	3,629.93	3,563.95	65.98	55.018		
9,300.00	7,621.50	7,728.49	7,588.41	101.45	33.66	92.57	424.41	1,036.03	3,635.44	3,569.31	66.14	54.969		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,754.00	7,613.91	101.50	33.72	90.77	424.51	1,035.81	3,638.61	3,572.33	66.28	54.896		
9,400.00	7,667.87	7,776.56	7,636.48	101.51	33.78	89.45	424.59	1,035.62	3,639.47	3,573.05	66.42	54.796		
9,450.00	7,686.55	7,795.77	7,655.68	101.48	33.84	88.56	424.65	1,035.47	3,638.06	3,571.52	66.54	54.671		
9,500.00	7,702.04	7,811.74	7,671.65	101.42	33.88	88.08	424.70	1,035.35	3,634.45	3,567.79	66.67	54.516		
9,550.00	7,714.20	7,824.27	7,684.18	101.33	33.91	87.96	424.73	1,035.26	3,628.71	3,561.92	66.79	54.330		
9,600.00	7,722.96	7,833.26	7,693.17	101.20	33.93	88.19	424.75	1,035.20	3,620.89	3,553.97	66.92	54.111		
9,650.00	7,728.24	7,838.63	7,698.54	101.06	33.95	88.75	424.77	1,035.16	3,611.07	3,544.02	67.05	53.859		
9,699.97	7,730.00	7,840.34	7,700.25	100.90	33.95	89.64	424.77	1,035.15	3,599.34	3,532.15	67.18	53.574		
9,800.00	7,730.00	7,840.08	7,699.99	100.56	33.95	89.64	424.77	1,035.15	3,575.28	3,507.76	67.52	52.954		
9,900.00	7,730.00	7,839.82	7,699.73	100.24	33.95	89.63	424.77	1,035.15	3,553.88	3,485.94	67.94	52.309		
10,000.00	7,730.00	7,839.55	7,699.47	99.93	33.95	89.63	424.77	1,035.16	3,535.19	3,466.73	68.46	51.642		
10,100.00	7,730.00	7,839.29	7,699.20	99.64	33.95	89.62	424.77	1,035.16	3,519.23	3,450.17	69.06	50.958		
10,200.00	7,730.00	7,839.03	7,698.94	99.36	33.95	89.62	424.77	1,035.16	3,506.06	3,436.31	69.75	50.264		
10,300.00	7,730.00	7,838.77	7,698.68	99.09	33.95	89.62	424.77	1,035.16	3,495.70	3,425.18	70.52	49.567		
10,400.00	7,730.00	7,838.50	7,698.41	98.84	33.95	89.61	424.77	1,035.16	3,488.18	3,416.81	71.37	48.874		
10,500.00	7,730.00	7,838.24	7,698.15	98.61	33.95	89.61	424.77	1,035.17	3,483.51	3,411.22	72.29	48.190		
10,600.00	7,730.00	7,837.97	7,697.88	98.39	33.95	89.60	424.77	1,035.17	3,481.71	3,408.45	73.26	47.524		
10,612.71	7,730.00	7,837.94	7,697.85	98.36	33.95	89.60	424.76	1,035.17	3,481.69	3,408.29	73.39	47.438		
10,700.00	7,730.00	7,837.71	7,697.62	98.18	33.95	89.60	424.76	1,035.17	3,482.78	3,408.49	74.29	46.879		
10,800.00	7,730.00	7,837.44	7,697.35	97.99	33.95	89.59	424.76	1,035.17	3,486.72	3,411.35	75.37	46.262		
10,900.00	7,730.00	7,837.17	7,697.09	97.81	33.95	89.59	424.76	1,035.17	3,493.52	3,417.04	76.48	45.677		
11,000.00	7,730.00	7,836.91	7,696.82	97.64	33.94	89.59	424.76	1,035.17	3,503.16	3,425.53	77.63	45.128		
11,100.00	7,730.00	7,836.64	7,696.55	97.50	33.94	89.58	424.76	1,035.18	3,515.62	3,436.83	78.79	44.618		
11,200.00	7,730.00	7,836.37	7,696.28	97.36	33.94	89.58	424.76	1,035.18	3,530.87	3,450.89	79.98	44.149		
11,300.00	7,730.00	7,836.10	7,696.01	97.24	33.94	89.57	424.76	1,035.18	3,548.87	3,467.71	81.17	43.724		
11,400.00	7,730.00	7,835.83	7,695.74	97.14	33.94	89.57	424.76	1,035.18	3,569.59	3,487.23	82.36	43.343		
11,500.00	7,730.00	7,835.56	7,695.47	97.06	33.94	89.56	424.76	1,035.18	3,592.97	3,509.42	83.54	43.006		
11,600.00	7,730.00	7,835.29	7,695.20	96.98	33.94	89.56	424.76	1,035.19	3,618.96	3,534.24	84.72	42.715		
11,700.00	7,730.00	7,835.02	7,694.93	96.93	33.94	89.55	424.76	1,035.19	3,647.51	3,561.62	85.89	42.469		
11,800.00	7,730.00	7,834.75	7,694.66	96.90	33.94	89.55	424.76	1,035.19	3,678.56	3,591.53	87.03	42.268		
11,900.00	7,730.00	7,834.47	7,694.38	96.88	33.94	89.55	424.76	1,035.19	3,712.04	3,623.89	88.15	42.110		
12,000.00	7,730.00	7,834.20	7,694.11	96.88	33.94	89.54	424.76	1,035.19	3,747.89	3,658.65	89.25	41.995		
12,100.00	7,730.00	7,833.93	7,693.84	96.90	33.94	89.54	424.75	1,035.20	3,786.05	3,695.73	90.31	41.921		
12,200.00	7,730.00	7,833.65	7,693.56	96.94	33.94	89.53	424.75	1,035.20	3,826.44	3,735.09	91.35	41.888		
12,300.00	7,730.00	7,833.38	7,693.29	97.00	33.93	89.53	424.75	1,035.20	3,868.99	3,776.64	92.35	41.893		
12,400.00	7,730.00	7,833.10	7,693.01	97.08	33.93	89.52	424.75	1,035.20	3,913.63	3,820.31	93.32	41.936		
12,500.00	7,730.00	7,832.82	7,692.73	97.18	33.93	89.52	424.75	1,035.20	3,960.30	3,866.04	94.26	42.015		
12,600.00	7,730.00	7,832.55	7,692.46	97.31	33.93	89.51	424.75	1,035.21	4,008.92	3,913.76	95.16	42.129		
12,700.00	7,730.00	7,832.27	7,692.18	97.46	33.93	89.51	424.75	1,035.21	4,059.42	3,963.40	96.02	42.276		
12,800.00	7,730.00	7,831.99	7,691.90	97.64	33.93	89.50	424.75	1,035.21	4,111.73	4,014.88	96.85	42.454		
12,900.00	7,730.00	7,831.71	7,691.62	97.85	33.93	89.50	424.75	1,035.21	4,165.79	4,068.15	97.64	42.663		
13,000.00	7,730.00	7,831.43	7,691.34	98.09	33.93	89.50	424.75	1,035.21	4,221.52	4,123.12	98.40	42.900		
13,100.00	7,730.00	7,831.15	7,691.06	98.35	33.93	89.49	424.75	1,035.22	4,278.87	4,179.74	99.13	43.165		
13,200.00	7,730.00	7,830.87	7,690.78	98.65	33.93	89.49	424.75	1,035.22	4,337.76	4,237.94	99.82	43.456		
13,300.00	7,730.00	7,830.59	7,690.50	98.98	33.93	89.48	424.75	1,035.22	4,398.14	4,297.66	100.48	43.772		
13,400.00	7,730.00	7,830.31	7,690.22	99.34	33.93	89.48	424.75	1,035.22	4,459.94	4,358.84	101.10	44.112		
13,500.00	7,730.00	7,830.02	7,689.93	99.74	33.93	89.47	424.74	1,035.22	4,523.11	4,421.41	101.70	44.475		
13,600.00	7,730.00	7,829.74	7,689.65	100.17	33.93	89.47	424.74	1,035.23	4,587.59	4,485.32	102.27	44.858		
13,700.00	7,730.00	7,829.46	7,689.37	100.65	33.92	89.46	424.74	1,035.23	4,653.33	4,550.52	102.81	45.263		
13,800.00	7,730.00	7,829.17	7,689.08	101.16	33.92	89.46	424.74	1,035.23	4,720.26	4,616.95	103.32	45.687		
13,900.00	7,730.00	7,828.89	7,688.80	101.71	33.92	89.45	424.74	1,035.23	4,788.36	4,684.55	103.80	46.129		
14,000.00	7,730.00	7,828.60	7,688.51	102.30	33.92	89.45	424.74	1,035.23	4,857.55	4,753.29	104.26	46.589		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,828.31	7,688.22	102.93	33.92	89.44	424.74	1,035.24	4,927.81	4,823.10	104.70	47.065		
14,200.00	7,730.00	7,828.03	7,687.94	103.60	33.92	89.44	424.74	1,035.24	4,999.07	4,893.96	105.12	47.558		
14,300.00	7,730.00	7,827.74	7,687.65	104.32	33.92	89.43	424.74	1,035.24	5,071.31	4,965.80	105.51	48.066		
14,400.00	7,730.00	7,827.45	7,687.36	105.07	33.92	89.43	424.74	1,035.24	5,144.48	5,038.59	105.88	48.588		
14,500.00	7,730.00	7,827.16	7,687.07	105.86	33.92	89.43	424.74	1,035.24	5,218.53	5,112.30	106.23	49.123		
14,600.00	7,730.00	7,826.87	7,686.78	106.70	33.92	89.42	424.74	1,035.25	5,293.44	5,186.88	106.57	49.672		
14,700.00	7,730.00	7,826.58	7,686.49	107.57	33.92	89.42	424.74	1,035.25	5,369.17	5,262.29	106.88	50.234		
14,800.00	7,730.00	7,826.29	7,686.20	108.48	33.92	89.41	424.73	1,035.25	5,445.68	5,338.50	107.18	50.807		
14,900.00	7,730.00	7,826.00	7,685.91	109.43	33.92	89.41	424.73	1,035.25	5,522.94	5,415.47	107.47	51.391		
15,000.00	7,730.00	7,825.70	7,685.61	110.42	33.91	89.40	424.73	1,035.25	5,600.92	5,493.19	107.74	51.987		
15,100.00	7,730.00	7,825.41	7,685.32	111.43	33.91	89.40	424.73	1,035.26	5,679.59	5,571.60	107.99	52.592		
15,200.00	7,730.00	7,825.11	7,685.03	112.49	33.91	89.39	424.73	1,035.26	5,758.93	5,650.69	108.23	53.208		
15,300.00	7,730.00	7,824.82	7,684.73	113.57	33.91	89.39	424.73	1,035.26	5,838.90	5,730.43	108.46	53.832		
15,400.00	7,730.00	7,824.52	7,684.44	114.68	33.91	89.38	424.73	1,035.26	5,919.47	5,810.79	108.68	54.466		
15,500.00	7,730.00	7,824.23	7,684.14	115.82	33.91	89.38	424.73	1,035.26	6,000.63	5,891.74	108.89	55.108		
15,600.00	7,730.00	7,823.93	7,683.84	116.99	33.91	89.37	424.73	1,035.27	6,082.36	5,973.27	109.08	55.758		
15,700.00	7,730.00	7,823.63	7,683.54	118.19	33.91	89.37	424.73	1,035.27	6,164.62	6,055.35	109.27	56.416		
15,800.00	7,730.00	7,823.34	7,683.25	119.41	33.91	89.36	424.73	1,035.27	6,247.40	6,137.95	109.45	57.082		
15,900.00	7,730.00	7,823.04	7,682.95	120.65	33.91	89.36	424.73	1,035.27	6,330.67	6,221.06	109.61	57.754		
16,000.00	7,730.00	7,822.74	7,682.65	121.91	33.91	89.35	424.73	1,035.27	6,414.43	6,304.65	109.77	58.433		
16,100.00	7,730.00	7,822.44	7,682.35	123.20	33.91	89.35	424.72	1,035.28	6,498.64	6,388.71	109.92	59.119		
16,200.00	7,730.00	7,822.13	7,682.05	124.50	33.91	89.34	424.72	1,035.28	6,583.29	6,473.23	110.07	59.811		
16,300.00	7,730.00	7,821.83	7,681.74	125.82	33.90	89.34	424.72	1,035.28	6,668.37	6,558.17	110.20	60.509		
16,400.00	7,730.00	7,821.53	7,681.44	127.16	33.90	89.33	424.72	1,035.28	6,753.86	6,643.53	110.34	61.212		
16,500.00	7,730.00	7,821.23	7,681.14	128.52	33.90	89.33	424.72	1,035.29	6,839.74	6,729.29	110.46	61.921		
16,600.00	7,730.00	7,820.92	7,680.83	129.89	33.90	89.32	424.72	1,035.29	6,926.01	6,815.43	110.58	62.635		
16,700.00	7,730.00	7,820.62	7,680.53	131.27	33.90	89.32	424.72	1,035.29	7,012.63	6,901.94	110.69	63.354		
16,800.00	7,730.00	7,820.31	7,680.22	132.67	33.90	89.31	424.72	1,035.29	7,099.61	6,988.81	110.80	64.078		
16,900.00	7,730.00	7,820.01	7,679.92	134.09	33.90	89.31	424.72	1,035.29	7,186.93	7,076.03	110.90	64.806		
17,000.00	7,730.00	7,819.70	7,679.61	135.51	33.90	89.30	424.72	1,035.30	7,274.57	7,163.57	111.00	65.539		
17,100.00	7,730.00	7,819.39	7,679.30	136.95	33.90	89.30	424.72	1,035.30	7,362.53	7,251.44	111.09	66.276		
17,200.00	7,730.00	7,819.08	7,678.99	138.40	33.90	89.29	424.72	1,035.30	7,450.79	7,339.61	111.18	67.016		
17,300.00	7,730.00	7,818.77	7,678.69	139.85	33.90	89.29	424.71	1,035.30	7,539.34	7,428.08	111.26	67.761		
17,400.00	7,730.00	7,818.46	7,678.38	141.32	33.90	89.28	424.71	1,035.31	7,628.18	7,516.84	111.35	68.509		
17,500.00	7,730.00	7,818.15	7,678.07	142.80	33.89	89.28	424.71	1,035.31	7,717.29	7,605.87	111.42	69.261		
17,600.00	7,730.00	7,817.84	7,677.75	144.28	33.89	89.27	424.71	1,035.31	7,806.67	7,695.17	111.50	70.016		
17,700.00	7,730.00	7,817.53	7,677.44	145.78	33.89	89.27	424.71	1,035.31	7,896.30	7,784.73	111.57	70.774		
17,800.00	7,730.00	7,817.22	7,677.13	147.28	33.89	89.26	424.71	1,035.31	7,986.17	7,874.53	111.64	71.536		
17,900.00	7,730.00	7,816.90	7,676.82	148.79	33.89	89.26	424.71	1,035.32	8,076.29	7,964.58	111.71	72.300		
18,000.00	7,730.00	7,816.59	7,676.50	150.31	33.89	89.25	424.71	1,035.32	8,166.63	8,054.86	111.77	73.067		
18,100.00	7,730.00	7,816.28	7,676.19	151.83	33.89	89.25	424.71	1,035.32	8,257.20	8,145.37	111.83	73.837		
18,200.00	7,730.00	7,815.96	7,675.87	153.37	33.89	89.24	424.71	1,035.32	8,347.98	8,236.09	111.89	74.609		
18,300.00	7,730.00	7,815.64	7,675.55	154.90	33.89	89.24	424.71	1,035.33	8,438.97	8,327.02	111.95	75.384		
18,400.00	7,730.00	7,815.33	7,675.24	156.45	33.89	89.23	424.71	1,035.33	8,530.16	8,418.16	112.00	76.161		
18,500.00	7,730.00	7,815.01	7,674.92	158.00	33.89	89.23	424.70	1,035.33	8,621.55	8,509.49	112.05	76.940		
18,600.00	7,730.00	7,814.69	7,674.60	159.55	33.89	89.22	424.70	1,035.33	8,713.12	8,601.02	112.11	77.722		
18,700.00	7,730.00	7,814.37	7,674.28	161.11	33.88	89.21	424.70	1,035.34	8,804.88	8,692.73	112.16	78.506		
18,800.00	7,730.00	7,814.05	7,673.96	162.68	33.88	89.21	424.70	1,035.34	8,896.82	8,784.62	112.20	79.291		
18,900.00	7,730.00	7,813.73	7,673.64	164.25	33.88	89.20	424.70	1,035.34	8,988.93	8,876.68	112.25	80.079		
19,000.00	7,730.00	7,813.40	7,673.32	165.83	33.88	89.20	424.70	1,035.34	9,081.21	8,968.91	112.30	80.868		
19,100.00	7,730.00	7,813.08	7,672.99	167.41	33.88	89.19	424.70	1,035.34	9,173.64	9,061.30	112.34	81.659		
19,200.00	7,730.00	7,812.76	7,672.67	168.99	33.88	89.19	424.70	1,035.35	9,266.24	9,153.86	112.38	82.452		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		139-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,812.43	7,672.35	170.58	33.88	89.18	424.70	1,035.35	9,358.99	9,246.56	112.43	83.246	
19,400.00	7,730.00	7,812.11	7,672.02	172.17	33.88	89.18	424.70	1,035.35	9,451.88	9,339.42	112.47	84.042	
19,430.54	7,730.00	7,812.01	7,671.92	172.66	33.88	89.18	424.70	1,035.35	9,480.28	9,367.80	112.48	84.285	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,353.00	7,799.48	0.00	138.96	68.14	1,835.16	4,573.81	9,344.67					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.14	1,835.16	4,573.81	9,259.85	9,171.74	88.11	105.092		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.14	1,835.16	4,573.81	9,175.35	9,086.83	88.52	103.651		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.14	1,835.16	4,573.81	9,091.16	9,002.19	88.96	102.191		
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.14	1,835.16	4,573.81	9,007.29	8,917.85	89.43	100.713		
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.14	1,835.16	4,573.81	8,923.75	8,833.81	89.94	99.222		
600.00	599.98	15,353.00	7,799.48	1.92	138.96	2.94	1,835.16	4,573.81	8,839.60	8,749.13	90.47	97.705		
700.00	699.84	15,353.00	7,799.48	2.28	138.96	3.12	1,835.16	4,573.81	8,753.93	8,662.91	91.02	96.174		
800.00	799.45	15,353.00	7,799.48	2.64	138.96	3.32	1,835.16	4,573.81	8,666.79	8,575.23	91.56	94.655		
900.00	898.70	15,353.00	7,799.48	3.02	138.96	3.55	1,835.16	4,573.81	8,578.25	8,486.16	92.09	93.152		
1,000.00	997.47	15,353.00	7,799.48	3.41	138.96	3.81	1,835.16	4,573.81	8,488.37	8,395.77	92.60	91.666		
1,100.00	1,095.62	15,353.00	7,799.48	3.84	138.96	4.11	1,835.16	4,573.81	8,397.23	8,304.13	93.10	90.200		
1,200.00	1,193.06	15,353.00	7,799.48	4.29	138.96	4.47	1,835.16	4,573.81	8,304.89	8,211.32	93.57	88.755		
1,300.00	1,289.64	15,353.00	7,799.48	4.78	138.96	4.90	1,835.16	4,573.81	8,211.43	8,117.40	94.02	87.333		
1,400.00	1,385.27	15,353.00	7,799.48	5.32	138.96	5.43	1,835.16	4,573.81	8,116.92	8,022.47	94.45	85.934		
1,500.00	1,479.82	15,353.00	7,799.48	5.90	138.96	6.07	1,835.16	4,573.81	8,021.45	7,926.59	94.86	84.561		
1,600.00	1,573.17	15,353.00	7,799.48	6.53	138.96	6.88	1,835.16	4,573.81	7,925.10	7,829.86	95.24	83.213		
1,700.00	1,665.21	15,353.00	7,799.48	7.23	138.96	7.94	1,835.16	4,573.81	7,827.96	7,732.37	95.59	81.892		
1,800.00	1,755.84	15,353.00	7,799.48	7.98	138.96	9.36	1,835.16	4,573.81	7,730.11	7,634.20	95.91	80.599		
1,900.00	1,844.94	15,353.00	7,799.48	8.80	138.96	11.39	1,835.16	4,573.81	7,631.65	7,535.46	96.19	79.335		
2,000.00	1,932.39	15,353.00	7,799.48	9.68	138.96	14.49	1,835.16	4,573.81	7,532.68	7,436.24	96.45	78.102		
2,100.00	2,018.11	15,353.00	7,799.48	10.63	138.96	19.75	1,835.16	4,573.81	7,433.31	7,336.64	96.66	76.899		
2,200.00	2,101.97	15,353.00	7,799.48	11.65	138.96	30.27	1,835.16	4,573.81	7,333.63	7,236.79	96.84	75.727		
2,300.00	2,183.88	15,353.00	7,799.48	12.74	138.96	56.83	1,835.16	4,573.81	7,233.77	7,136.79	96.98	74.589		
2,400.00	2,263.74	15,353.00	7,799.48	13.90	138.96	111.42	1,835.16	4,573.81	7,133.83	7,036.75	97.08	73.484		
2,431.61	2,288.54	15,353.00	7,799.48	14.29	138.96	125.75	1,835.16	4,573.81	7,102.25	7,005.14	97.10	73.142		
2,500.00	2,341.97	15,353.00	7,799.48	15.13	138.96	125.75	1,835.16	4,573.81	7,033.91	6,936.77	97.15	72.405		
2,600.00	2,420.08	15,353.00	7,799.48	16.37	138.96	125.75	1,835.16	4,573.81	6,934.00	6,836.79	97.21	71.327		
2,700.00	2,498.20	15,353.00	7,799.48	17.63	138.96	125.75	1,835.16	4,573.81	6,834.09	6,736.81	97.29	70.247		
2,800.00	2,576.32	15,353.00	7,799.48	18.89	138.96	125.75	1,835.16	4,573.81	6,734.19	6,636.83	97.36	69.167		
2,900.00	2,654.43	15,353.00	7,799.48	20.17	138.96	125.75	1,835.16	4,573.81	6,634.29	6,536.85	97.44	68.086		
3,000.00	2,732.55	15,353.00	7,799.48	21.45	138.96	125.75	1,835.16	4,573.81	6,534.39	6,436.86	97.52	67.005		
3,100.00	2,810.67	15,353.00	7,799.48	22.74	138.96	125.75	1,835.16	4,573.81	6,434.49	6,336.88	97.61	65.923		
3,200.00	2,888.78	15,353.00	7,799.48	24.03	138.96	125.75	1,835.16	4,573.81	6,334.60	6,236.90	97.70	64.840		
3,300.00	2,966.90	15,353.00	7,799.48	25.33	138.96	125.75	1,835.16	4,573.81	6,234.71	6,136.92	97.79	63.758		
3,400.00	3,045.02	15,353.00	7,799.48	26.63	138.96	125.75	1,835.16	4,573.81	6,134.82	6,036.94	97.88	62.675		
3,500.00	3,123.13	15,353.00	7,799.48	27.94	138.96	125.75	1,835.16	4,573.81	6,034.94	5,936.96	97.98	61.592		
3,600.00	3,201.25	15,353.00	7,799.48	29.24	138.96	125.75	1,835.16	4,573.81	5,935.06	5,836.98	98.08	60.510		
3,700.00	3,279.37	15,353.00	7,799.48	30.55	138.96	125.75	1,835.16	4,573.81	5,835.19	5,737.00	98.19	59.428		
3,800.00	3,357.49	15,353.00	7,799.48	31.86	138.96	125.75	1,835.16	4,573.81	5,735.32	5,637.02	98.30	58.345		
3,900.00	3,435.60	15,353.00	7,799.48	33.18	138.96	125.75	1,835.16	4,573.81	5,635.45	5,537.04	98.41	57.264		
4,000.00	3,513.72	15,353.00	7,799.48	34.49	138.96	125.75	1,835.16	4,573.81	5,535.59	5,437.06	98.53	56.183		
4,100.00	3,591.84	15,353.00	7,799.48	35.81	138.96	125.75	1,835.16	4,573.81	5,435.74	5,337.09	98.65	55.102		
4,200.00	3,669.95	15,353.00	7,799.48	37.12	138.96	125.75	1,835.16	4,573.81	5,335.89	5,237.12	98.77	54.022		
4,300.00	3,748.07	15,353.00	7,799.48	38.44	138.96	125.75	1,835.16	4,573.81	5,236.04	5,137.14	98.90	52.943		
4,400.00	3,826.19	15,353.00	7,799.48	39.76	138.96	125.75	1,835.16	4,573.81	5,136.21	5,037.18	99.03	51.865		
4,500.00	3,904.30	15,353.00	7,799.48	41.08	138.96	125.75	1,835.16	4,573.81	5,036.37	4,937.21	99.16	50.788		
4,600.00	3,982.42	15,353.00	7,799.48	42.40	138.96	125.75	1,835.16	4,573.81	4,936.55	4,837.25	99.30	49.712		
4,700.00	4,060.54	15,353.00	7,799.48	43.72	138.96	125.75	1,835.16	4,573.81	4,836.73	4,737.29	99.44	48.637		
4,800.00	4,138.66	15,353.00	7,799.48	45.05	138.96	125.75	1,835.16	4,573.81	4,736.92	4,637.33	99.59	47.564		
4,900.00	4,216.77	15,353.00	7,799.48	46.37	138.96	125.75	1,835.16	4,573.81	4,637.12	4,537.38	99.74	46.492		
5,000.00	4,294.89	15,353.00	7,799.48	47.69	138.96	125.75	1,835.16	4,573.81	4,537.33	4,437.43	99.90	45.421		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	15,353.00	7,799.48	49.02	138.96	125.75	1,835.16	4,573.81	4,437.54	4,337.49	100.05	44.351		
5,200.00	4,451.12	15,353.00	7,799.48	50.34	138.96	125.75	1,835.16	4,573.81	4,337.77	4,237.55	100.22	43.283		
5,300.00	4,529.24	15,353.00	7,799.48	51.67	138.96	125.75	1,835.16	4,573.81	4,238.01	4,137.62	100.39	42.217		
5,400.00	4,607.36	15,353.00	7,799.48	52.99	138.96	125.75	1,835.16	4,573.81	4,138.26	4,037.70	100.56	41.152		
5,500.00	4,685.47	15,353.00	7,799.48	54.32	138.96	125.75	1,835.16	4,573.81	4,038.52	3,937.78	100.74	40.089		
5,600.00	4,763.59	15,353.00	7,799.48	55.64	138.96	125.75	1,835.16	4,573.81	3,938.79	3,837.87	100.92	39.028		
5,700.00	4,841.71	15,353.00	7,799.48	56.97	138.96	125.75	1,835.16	4,573.81	3,839.08	3,737.97	101.11	37.969		
5,800.00	4,919.83	15,353.00	7,799.48	58.30	138.96	125.75	1,835.16	4,573.81	3,739.39	3,638.08	101.31	36.911		
5,900.00	4,997.94	15,353.00	7,799.48	59.62	138.96	125.75	1,835.16	4,573.81	3,639.71	3,538.20	101.51	35.856		
6,000.00	5,076.06	15,353.00	7,799.48	60.95	138.96	125.75	1,835.16	4,573.81	3,540.04	3,438.33	101.72	34.802		
6,100.00	5,154.18	15,353.00	7,799.48	62.28	138.96	125.75	1,835.16	4,573.81	3,440.40	3,338.47	101.93	33.751		
6,200.00	5,232.29	15,353.00	7,799.48	63.61	138.96	125.75	1,835.16	4,573.81	3,340.78	3,238.62	102.16	32.702		
6,300.00	5,310.41	15,353.00	7,799.48	64.93	138.96	125.75	1,835.16	4,573.81	3,241.19	3,138.79	102.39	31.655		
6,400.00	5,388.53	15,353.00	7,799.48	66.26	138.96	125.75	1,835.16	4,573.81	3,141.62	3,038.98	102.63	30.610		
6,500.00	5,466.64	15,353.00	7,799.48	67.59	138.96	125.75	1,835.16	4,573.81	3,042.07	2,939.18	102.89	29.567		
6,600.00	5,544.76	15,353.00	7,799.48	68.92	138.96	125.75	1,835.16	4,573.81	2,942.56	2,839.41	103.15	28.527		
6,700.00	5,622.88	15,353.00	7,799.48	70.25	138.96	125.75	1,835.16	4,573.81	2,843.08	2,739.65	103.43	27.489		
6,800.00	5,701.00	15,353.00	7,799.48	71.58	138.96	125.75	1,835.16	4,573.81	2,743.64	2,639.92	103.72	26.453		
6,900.00	5,779.11	15,353.00	7,799.48	72.91	138.96	125.75	1,835.16	4,573.81	2,644.25	2,540.22	104.02	25.419		
7,000.00	5,857.23	15,353.00	7,799.48	74.23	138.96	125.75	1,835.16	4,573.81	2,544.89	2,440.55	104.35	24.389		
7,100.00	5,935.35	15,353.00	7,799.48	75.56	138.96	125.75	1,835.16	4,573.81	2,445.60	2,340.91	104.69	23.360		
7,200.00	6,013.46	15,353.00	7,799.48	76.89	138.96	125.75	1,835.16	4,573.81	2,346.36	2,241.30	105.05	22.335		
7,300.00	6,091.58	15,353.00	7,799.48	78.22	138.96	125.75	1,835.16	4,573.81	2,247.19	2,141.74	105.44	21.312		
7,400.00	6,169.70	15,353.00	7,799.48	79.55	138.96	125.75	1,835.16	4,573.81	2,148.10	2,042.23	105.86	20.291		
7,500.00	6,247.81	15,353.00	7,799.48	80.88	138.96	125.75	1,835.16	4,573.81	2,049.09	1,942.78	106.32	19.274		
7,600.00	6,325.93	15,353.00	7,799.48	82.21	138.96	125.75	1,835.16	4,573.81	1,950.19	1,843.38	106.81	18.259		
7,700.00	6,404.05	15,353.00	7,799.48	83.54	138.96	125.75	1,835.16	4,573.81	1,851.40	1,744.06	107.34	17.248		
7,800.00	6,482.17	15,353.00	7,799.48	84.87	138.96	125.75	1,835.16	4,573.81	1,752.75	1,644.83	107.93	16.240		
7,900.00	6,560.28	15,353.00	7,799.48	86.20	138.96	125.75	1,835.16	4,573.81	1,654.27	1,545.69	108.58	15.236		
8,000.00	6,638.40	15,353.00	7,799.48	87.53	138.96	125.75	1,835.16	4,573.81	1,555.98	1,446.67	109.30	14.236		
8,100.00	6,716.52	15,353.00	7,799.48	88.86	138.96	125.75	1,835.16	4,573.81	1,457.92	1,347.80	110.11	13.240		
8,200.00	6,794.63	15,353.00	7,799.48	90.20	138.96	125.75	1,835.16	4,573.81	1,360.14	1,249.11	111.03	12.250		
8,300.00	6,872.75	15,353.00	7,799.48	91.53	138.96	125.75	1,835.16	4,573.81	1,262.71	1,150.63	112.08	11.267		
8,400.00	6,950.87	15,353.00	7,799.48	92.86	138.96	125.75	1,835.16	4,573.81	1,165.71	1,052.44	113.28	10.291		
8,500.00	7,028.98	15,345.61	7,799.54	94.19	138.83	126.17	1,842.55	4,573.68	1,069.25	955.17	114.08	9.373		
8,600.00	7,107.10	15,319.81	7,799.78	95.52	138.38	127.79	1,868.35	4,573.25	972.99	859.61	113.38	8.582		
8,647.91	7,144.53	15,307.44	7,799.89	96.16	138.16	128.68	1,880.71	4,573.05	926.89	813.90	112.99	8.203		
8,650.00	7,146.16	15,306.91	7,799.90	96.18	138.15	128.71	1,881.24	4,573.04	924.88	811.90	112.98	8.186		
8,700.00	7,185.66	15,299.69	7,799.99	96.84	138.03	132.19	1,891.84	4,572.87	876.26	763.69	112.57	7.784		
8,750.00	7,225.78	15,290.91	7,800.04	97.47	137.88	146.07	1,897.24	4,572.78	826.92	714.78	112.14	7.374		
8,800.00	7,266.21	15,289.11	7,800.06	98.08	137.85	-179.59	1,899.04	4,572.75	777.24	665.62	111.62	6.963		
8,850.00	7,306.63	15,291.20	7,800.04	98.64	137.88	-149.03	1,896.95	4,572.79	727.61	616.61	111.00	6.555		
8,900.00	7,346.75	15,298.81	7,799.98	99.17	138.01	-138.20	1,890.96	4,572.88	678.40	568.12	110.28	6.152		
8,950.00	7,386.25	15,308.22	7,799.88	99.64	138.18	-136.30	1,879.93	4,573.06	630.00	520.45	109.55	5.751		
9,000.00	7,424.84	15,323.46	7,799.74	100.06	138.44	-137.57	1,864.70	4,573.32	582.79	474.02	108.77	5.358		
9,050.00	7,462.22	15,342.79	7,799.57	100.42	138.78	-140.02	1,845.37	4,573.64	537.12	429.19	107.93	4.977		
9,100.00	7,498.11	15,353.00	7,799.48	100.74	138.96	-142.14	1,835.16	4,573.81	493.53	388.54	104.99	4.701		
9,150.00	7,532.24	15,353.00	7,799.48	100.99	138.96	-143.99	1,835.16	4,573.81	453.60	353.74	99.86	4.542		
9,200.00	7,564.34	15,353.00	7,799.48	101.19	138.96	-145.94	1,835.16	4,573.81	418.87	323.11	95.76	4.374		
9,250.00	7,594.17	15,353.00	7,799.48	101.34	138.96	-147.85	1,835.16	4,573.81	391.01	295.19	95.82	4.081		
9,300.00	7,621.50	15,353.00	7,799.48	101.45	138.96	-149.66	1,835.16	4,573.81	371.80	271.58	100.22	3.710		
9,350.00	7,646.13	15,353.00	7,799.48	101.50	138.96	-151.37	1,835.16	4,573.81	362.77	256.48	106.29	3.413		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,366.07	7,653.44	15,353.00	7,799.48	101.50	138.96	-151.89	1,835.16	4,573.81	362.20	253.96	108.23	3.346	CC	
9,400.00	7,667.87	15,353.00	7,799.48	101.51	138.96	-152.99	1,835.16	4,573.81	364.76	252.73	112.02	3.256	ES	
9,450.00	7,686.55	15,353.00	7,799.48	101.48	138.96	-154.57	1,835.16	4,573.81	377.56	261.09	116.47	3.242	SF	
9,500.00	7,702.04	15,353.00	7,799.48	101.42	138.96	-156.17	1,835.16	4,573.81	400.06	280.56	119.50	3.348		
9,550.00	7,714.20	15,353.00	7,799.48	101.33	138.96	-157.88	1,835.16	4,573.81	430.58	309.16	121.41	3.546		
9,600.00	7,722.96	15,353.00	7,799.48	101.20	138.96	-159.87	1,835.16	4,573.81	467.35	344.76	122.59	3.812		
9,650.00	7,728.24	15,353.00	7,799.48	101.06	138.96	-162.41	1,835.16	4,573.81	508.76	385.44	123.32	4.126		
9,699.97	7,730.00	15,353.00	7,799.48	100.90	138.96	-166.00	1,835.16	4,573.81	553.48	429.70	123.78	4.471		
9,800.00	7,730.00	15,353.00	7,799.48	100.56	138.96	-166.00	1,835.16	4,573.81	646.76	522.43	124.34	5.202		
9,900.00	7,730.00	15,353.00	7,799.48	100.24	138.96	-166.00	1,835.16	4,573.81	741.78	617.10	124.68	5.949		
10,000.00	7,730.00	15,353.00	7,799.48	99.93	138.96	-166.00	1,835.16	4,573.81	837.96	713.04	124.92	6.708		
10,100.00	7,730.00	15,353.00	7,799.48	99.64	138.96	-166.00	1,835.16	4,573.81	934.94	809.84	125.10	7.474		
10,200.00	7,730.00	15,353.00	7,799.48	99.36	138.96	-166.00	1,835.16	4,573.81	1,032.49	907.25	125.24	8.244		
10,300.00	7,730.00	15,353.00	7,799.48	99.09	138.96	-166.00	1,835.16	4,573.81	1,130.47	1,005.11	125.36	9.018		
10,400.00	7,730.00	15,353.00	7,799.48	98.84	138.96	-166.00	1,835.16	4,573.81	1,228.78	1,103.32	125.46	9.794		
10,500.00	7,730.00	15,353.00	7,799.48	98.61	138.96	-166.00	1,835.16	4,573.81	1,327.34	1,201.79	125.55	10.572		
10,600.00	7,730.00	15,353.00	7,799.48	98.39	138.96	-166.00	1,835.16	4,573.81	1,426.10	1,300.47	125.63	11.351		
10,700.00	7,730.00	15,353.00	7,799.48	98.18	138.96	-166.00	1,835.16	4,573.81	1,525.03	1,399.32	125.71	12.132		
10,800.00	7,730.00	15,353.00	7,799.48	97.99	138.96	-166.00	1,835.16	4,573.81	1,624.08	1,498.31	125.77	12.913		
10,900.00	7,730.00	15,353.00	7,799.48	97.81	138.96	-166.00	1,835.16	4,573.81	1,723.24	1,597.42	125.83	13.695		
11,000.00	7,730.00	15,353.00	7,799.48	97.64	138.96	-166.00	1,835.16	4,573.81	1,822.50	1,696.62	125.88	14.478		
11,100.00	7,730.00	15,353.00	7,799.48	97.50	138.96	-166.00	1,835.16	4,573.81	1,921.83	1,795.90	125.93	15.261		
11,200.00	7,730.00	15,353.00	7,799.48	97.36	138.96	-166.00	1,835.16	4,573.81	2,021.23	1,895.25	125.98	16.045		
11,300.00	7,730.00	15,353.00	7,799.48	97.24	138.96	-166.00	1,835.16	4,573.81	2,120.69	1,994.67	126.02	16.828		
11,400.00	7,730.00	15,353.00	7,799.48	97.14	138.96	-166.00	1,835.16	4,573.81	2,220.19	2,094.13	126.06	17.613		
11,500.00	7,730.00	15,353.00	7,799.48	97.06	138.96	-166.00	1,835.16	4,573.81	2,319.74	2,193.64	126.09	18.397		
11,600.00	7,730.00	15,353.00	7,799.48	96.98	138.96	-166.00	1,835.16	4,573.81	2,419.32	2,293.19	126.13	19.181		
11,700.00	7,730.00	15,353.00	7,799.48	96.93	138.96	-166.00	1,835.16	4,573.81	2,518.94	2,392.77	126.16	19.966		
11,800.00	7,730.00	15,353.00	7,799.48	96.90	138.96	-166.00	1,835.16	4,573.81	2,618.58	2,492.39	126.19	20.751		
11,900.00	7,730.00	15,353.00	7,799.48	96.88	138.96	-166.00	1,835.16	4,573.81	2,718.25	2,592.03	126.22	21.536		
12,000.00	7,730.00	15,353.00	7,799.48	96.88	138.96	-166.00	1,835.16	4,573.81	2,817.95	2,691.70	126.25	22.320		
12,100.00	7,730.00	15,353.00	7,799.48	96.90	138.96	-166.00	1,835.16	4,573.81	2,917.67	2,791.39	126.28	23.105		
12,200.00	7,730.00	15,353.00	7,799.48	96.94	138.96	-166.00	1,835.16	4,573.81	3,017.40	2,891.10	126.30	23.890		
12,300.00	7,730.00	15,353.00	7,799.48	97.00	138.96	-166.00	1,835.16	4,573.81	3,117.15	2,990.83	126.33	24.675		
12,400.00	7,730.00	15,353.00	7,799.48	97.08	138.96	-166.00	1,835.16	4,573.81	3,216.92	3,090.57	126.35	25.460		
12,500.00	7,730.00	15,353.00	7,799.48	97.18	138.96	-166.00	1,835.16	4,573.81	3,316.70	3,190.33	126.37	26.245		
12,600.00	7,730.00	15,353.00	7,799.48	97.31	138.96	-166.00	1,835.16	4,573.81	3,416.50	3,290.10	126.40	27.030		
12,700.00	7,730.00	15,353.00	7,799.48	97.46	138.96	-166.00	1,835.16	4,573.81	3,516.30	3,389.88	126.42	27.815		
12,800.00	7,730.00	15,353.00	7,799.48	97.64	138.96	-166.00	1,835.16	4,573.81	3,616.12	3,489.68	126.44	28.600		
12,900.00	7,730.00	15,353.00	7,799.48	97.85	138.96	-166.00	1,835.16	4,573.81	3,715.94	3,589.48	126.46	29.384		
13,000.00	7,730.00	15,353.00	7,799.48	98.09	138.96	-166.00	1,835.16	4,573.81	3,815.78	3,689.30	126.48	30.169		
13,100.00	7,730.00	15,353.00	7,799.48	98.35	138.96	-166.00	1,835.16	4,573.81	3,915.62	3,789.12	126.50	30.954		
13,200.00	7,730.00	15,353.00	7,799.48	98.65	138.96	-166.00	1,835.16	4,573.81	4,015.48	3,888.96	126.52	31.738		
13,300.00	7,730.00	15,353.00	7,799.48	98.98	138.96	-166.00	1,835.16	4,573.81	4,115.33	3,988.80	126.54	32.523		
13,400.00	7,730.00	15,353.00	7,799.48	99.34	138.96	-166.00	1,835.16	4,573.81	4,215.20	4,088.64	126.56	33.307		
13,500.00	7,730.00	15,353.00	7,799.48	99.74	138.96	-166.00	1,835.16	4,573.81	4,315.07	4,188.50	126.57	34.091		
13,600.00	7,730.00	15,353.00	7,799.48	100.17	138.96	-166.00	1,835.16	4,573.81	4,414.95	4,288.36	126.59	34.875		
13,700.00	7,730.00	15,353.00	7,799.48	100.65	138.96	-166.00	1,835.16	4,573.81	4,514.83	4,388.22	126.61	35.659		
13,800.00	7,730.00	15,353.00	7,799.48	101.16	138.96	-166.00	1,835.16	4,573.81	4,614.72	4,488.09	126.63	36.443		
13,900.00	7,730.00	15,353.00	7,799.48	101.71	138.96	-166.00	1,835.16	4,573.81	4,714.61	4,587.97	126.65	37.226		
14,000.00	7,730.00	15,353.00	7,799.48	102.30	138.96	-166.00	1,835.16	4,573.81	4,814.51	4,687.85	126.66	38.010		
14,100.00	7,730.00	15,353.00	7,799.48	102.93	138.96	-166.00	1,835.16	4,573.81	4,914.41	4,787.73	126.68	38.793		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,353.00	7,799.48	103.60	138.96	-166.00	1,835.16	4,573.81	5,014.32	4,887.62	126.70	39.576		
14,300.00	7,730.00	15,353.00	7,799.48	104.32	138.96	-166.00	1,835.16	4,573.81	5,114.23	4,987.51	126.72	40.359		
14,400.00	7,730.00	15,353.00	7,799.48	105.07	138.96	-166.00	1,835.16	4,573.81	5,214.14	5,087.40	126.73	41.142		
14,500.00	7,730.00	15,353.00	7,799.48	105.86	138.96	-166.00	1,835.16	4,573.81	5,314.05	5,187.30	126.75	41.925		
14,600.00	7,730.00	15,353.00	7,799.48	106.70	138.96	-166.00	1,835.16	4,573.81	5,413.97	5,287.20	126.77	42.707		
14,700.00	7,730.00	15,353.00	7,799.48	107.57	138.96	-166.00	1,835.16	4,573.81	5,513.90	5,387.11	126.79	43.490		
14,800.00	7,730.00	15,353.00	7,799.48	108.48	138.96	-166.00	1,835.16	4,573.81	5,613.82	5,487.02	126.80	44.272		
14,900.00	7,730.00	15,353.00	7,799.48	109.43	138.96	-166.00	1,835.16	4,573.81	5,713.75	5,586.93	126.82	45.053		
15,000.00	7,730.00	15,353.00	7,799.48	110.42	138.96	-166.00	1,835.16	4,573.81	5,813.68	5,686.84	126.84	45.835		
15,100.00	7,730.00	15,353.00	7,799.48	111.43	138.96	-166.00	1,835.16	4,573.81	5,913.61	5,786.75	126.86	46.616		
15,200.00	7,730.00	15,353.00	7,799.48	112.49	138.96	-166.00	1,835.16	4,573.81	6,013.54	5,886.67	126.87	47.398		
15,300.00	7,730.00	15,353.00	7,799.48	113.57	138.96	-166.00	1,835.16	4,573.81	6,113.48	5,986.59	126.89	48.179		
15,400.00	7,730.00	15,353.00	7,799.48	114.68	138.96	-166.00	1,835.16	4,573.81	6,213.42	6,086.51	126.91	48.959		
15,500.00	7,730.00	15,353.00	7,799.48	115.82	138.96	-166.00	1,835.16	4,573.81	6,313.36	6,186.43	126.93	49.740		
15,600.00	7,730.00	15,353.00	7,799.48	116.99	138.96	-166.00	1,835.16	4,573.81	6,413.30	6,286.36	126.95	50.520		
15,700.00	7,730.00	15,353.00	7,799.48	118.19	138.96	-166.00	1,835.16	4,573.81	6,513.25	6,386.28	126.96	51.300		
15,800.00	7,730.00	15,353.00	7,799.48	119.41	138.96	-166.00	1,835.16	4,573.81	6,613.19	6,486.21	126.98	52.080		
15,900.00	7,730.00	15,353.00	7,799.48	120.65	138.96	-166.00	1,835.16	4,573.81	6,713.14	6,586.14	127.00	52.859		
16,000.00	7,730.00	15,353.00	7,799.48	121.91	138.96	-166.00	1,835.16	4,573.81	6,813.09	6,686.07	127.02	53.638		
16,100.00	7,730.00	15,353.00	7,799.48	123.20	138.96	-166.00	1,835.16	4,573.81	6,913.04	6,786.00	127.04	54.417		
16,200.00	7,730.00	15,353.00	7,799.48	124.50	138.96	-166.00	1,835.16	4,573.81	7,012.99	6,885.94	127.06	55.196		
16,300.00	7,730.00	15,353.00	7,799.48	125.82	138.96	-166.00	1,835.16	4,573.81	7,112.94	6,985.87	127.08	55.974		
16,400.00	7,730.00	15,353.00	7,799.48	127.16	138.96	-166.00	1,835.16	4,573.81	7,212.90	7,085.80	127.09	56.752		
16,500.00	7,730.00	15,353.00	7,799.48	128.52	138.96	-166.00	1,835.16	4,573.81	7,312.85	7,185.74	127.11	57.530		
16,600.00	7,730.00	15,353.00	7,799.48	129.89	138.96	-166.00	1,835.16	4,573.81	7,412.81	7,285.68	127.13	58.308		
16,700.00	7,730.00	15,353.00	7,799.48	131.27	138.96	-166.00	1,835.16	4,573.81	7,512.77	7,385.62	127.15	59.085		
16,800.00	7,730.00	15,353.00	7,799.48	132.67	138.96	-166.00	1,835.16	4,573.81	7,612.73	7,485.56	127.17	59.862		
16,900.00	7,730.00	15,353.00	7,799.48	134.09	138.96	-166.00	1,835.16	4,573.81	7,712.69	7,585.50	127.19	60.638		
17,000.00	7,730.00	15,353.00	7,799.48	135.51	138.96	-166.00	1,835.16	4,573.81	7,812.65	7,685.44	127.21	61.415		
17,100.00	7,730.00	15,353.00	7,799.48	136.95	138.96	-166.00	1,835.16	4,573.81	7,912.61	7,785.38	127.23	62.191		
17,200.00	7,730.00	15,353.00	7,799.48	138.40	138.96	-166.00	1,835.16	4,573.81	8,012.58	7,885.32	127.25	62.966		
17,300.00	7,730.00	15,353.00	7,799.48	139.85	138.96	-166.00	1,835.16	4,573.81	8,112.54	7,985.27	127.27	63.741		
17,400.00	7,730.00	15,353.00	7,799.48	141.32	138.96	-166.00	1,835.16	4,573.81	8,212.51	8,085.21	127.29	64.516		
17,500.00	7,730.00	15,353.00	7,799.48	142.80	138.96	-166.00	1,835.16	4,573.81	8,312.47	8,185.16	127.31	65.291		
17,600.00	7,730.00	15,353.00	7,799.48	144.28	138.96	-166.00	1,835.16	4,573.81	8,412.44	8,285.10	127.34	66.065		
17,700.00	7,730.00	15,353.00	7,799.48	145.78	138.96	-166.00	1,835.16	4,573.81	8,512.41	8,385.05	127.36	66.839		
17,800.00	7,730.00	15,353.00	7,799.48	147.28	138.96	-166.00	1,835.16	4,573.81	8,612.37	8,485.00	127.38	67.613		
17,900.00	7,730.00	15,353.00	7,799.48	148.79	138.96	-166.00	1,835.16	4,573.81	8,712.34	8,584.94	127.40	68.386		
18,000.00	7,730.00	15,353.00	7,799.48	150.31	138.96	-166.00	1,835.16	4,573.81	8,812.31	8,684.89	127.42	69.159		
18,100.00	7,730.00	15,353.00	7,799.48	151.83	138.96	-166.00	1,835.16	4,573.81	8,912.28	8,784.84	127.44	69.931		
18,200.00	7,730.00	15,353.00	7,799.48	153.37	138.96	-166.00	1,835.16	4,573.81	9,012.25	8,884.79	127.47	70.703		
18,300.00	7,730.00	15,353.00	7,799.48	154.90	138.96	-166.00	1,835.16	4,573.81	9,112.23	8,984.74	127.49	71.475		
18,400.00	7,730.00	15,353.00	7,799.48	156.45	138.96	-166.00	1,835.16	4,573.81	9,212.20	9,084.69	127.51	72.246		
18,500.00	7,730.00	15,353.00	7,799.48	158.00	138.96	-166.00	1,835.16	4,573.81	9,312.17	9,184.64	127.53	73.017		
18,600.00	7,730.00	15,353.00	7,799.48	159.55	138.96	-166.00	1,835.16	4,573.81	9,412.14	9,284.59	127.56	73.787		
18,700.00	7,730.00	15,353.00	7,799.48	161.11	138.96	-166.00	1,835.16	4,573.81	9,512.12	9,384.54	127.58	74.558		
18,800.00	7,730.00	15,353.00	7,799.48	162.68	138.96	-166.00	1,835.16	4,573.81	9,612.09	9,484.49	127.60	75.327		
18,900.00	7,730.00	15,353.00	7,799.48	164.25	138.96	-166.00	1,835.16	4,573.81	9,712.07	9,584.44	127.63	76.097		
19,000.00	7,730.00	15,353.00	7,799.48	165.83	138.96	-166.00	1,835.16	4,573.81	9,812.04	9,684.39	127.65	76.866		
19,100.00	7,730.00	15,353.00	7,799.48	167.41	138.96	-166.00	1,835.16	4,573.81	9,912.02	9,784.34	127.68	77.634		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,243.00	7,668.35	0.00	138.66	69.41	1,844.59	4,909.50	9,406.17					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.41	1,844.59	4,909.50	9,323.32	9,232.41	90.92	102.549		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.41	1,844.59	4,909.50	9,240.82	9,149.46	91.36	101.148		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.41	1,844.59	4,909.50	9,158.66	9,066.82	91.84	99.728		
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.41	1,844.59	4,909.50	9,076.86	8,984.51	92.35	98.290		
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.41	1,844.59	4,909.50	8,995.42	8,902.53	92.89	96.839		
600.00	599.98	15,243.00	7,668.35	1.92	138.66	4.27	1,844.59	4,909.50	8,913.36	8,819.89	93.47	95.362		
700.00	699.84	15,243.00	7,668.35	2.28	138.66	4.50	1,844.59	4,909.50	8,829.70	8,735.64	94.06	93.872		
800.00	799.45	15,243.00	7,668.35	2.64	138.66	4.76	1,844.59	4,909.50	8,744.51	8,649.86	94.65	92.391		
900.00	898.70	15,243.00	7,668.35	3.02	138.66	5.06	1,844.59	4,909.50	8,657.83	8,562.61	95.22	90.925		
1,000.00	997.47	15,243.00	7,668.35	3.41	138.66	5.40	1,844.59	4,909.50	8,569.73	8,473.96	95.78	89.474		
1,100.00	1,095.62	15,243.00	7,668.35	3.84	138.66	5.79	1,844.59	4,909.50	8,480.29	8,383.97	96.32	88.042		
1,200.00	1,193.06	15,243.00	7,668.35	4.29	138.66	6.24	1,844.59	4,909.50	8,389.56	8,292.71	96.84	86.629		
1,300.00	1,289.64	15,243.00	7,668.35	4.78	138.66	6.77	1,844.59	4,909.50	8,297.61	8,200.27	97.35	85.236		
1,400.00	1,385.27	15,243.00	7,668.35	5.32	138.66	7.40	1,844.59	4,909.50	8,204.53	8,106.70	97.83	83.865		
1,500.00	1,479.82	15,243.00	7,668.35	5.90	138.66	8.16	1,844.59	4,909.50	8,110.38	8,012.09	98.29	82.516		
1,600.00	1,573.17	15,243.00	7,668.35	6.53	138.66	9.08	1,844.59	4,909.50	8,015.24	7,916.52	98.72	81.191		
1,700.00	1,665.21	15,243.00	7,668.35	7.23	138.66	10.24	1,844.59	4,909.50	7,919.20	7,820.08	99.13	79.891		
1,800.00	1,755.84	15,243.00	7,668.35	7.98	138.66	11.72	1,844.59	4,909.50	7,822.34	7,722.84	99.50	78.615		
1,900.00	1,844.94	15,243.00	7,668.35	8.80	138.66	13.69	1,844.59	4,909.50	7,724.76	7,624.91	99.85	77.366		
2,000.00	1,932.39	15,243.00	7,668.35	9.68	138.66	16.41	1,844.59	4,909.50	7,626.54	7,526.38	100.16	76.143		
2,100.00	2,018.11	15,243.00	7,668.35	10.63	138.66	20.38	1,844.59	4,909.50	7,527.78	7,427.34	100.44	74.949		
2,200.00	2,101.97	15,243.00	7,668.35	11.65	138.66	26.63	1,844.59	4,909.50	7,428.59	7,327.91	100.68	73.783		
2,300.00	2,183.88	15,243.00	7,668.35	12.74	138.66	37.49	1,844.59	4,909.50	7,329.06	7,228.18	100.89	72.647		
2,400.00	2,263.74	15,243.00	7,668.35	13.90	138.66	58.18	1,844.59	4,909.50	7,229.32	7,128.27	101.05	71.541		
2,431.61	2,288.54	15,243.00	7,668.35	14.29	138.66	67.88	1,844.59	4,909.50	7,197.77	7,096.67	101.10	71.197		
2,500.00	2,341.97	15,243.00	7,668.35	15.13	138.66	67.88	1,844.59	4,909.50	7,129.48	7,028.29	101.19	70.458		
2,600.00	2,420.08	15,243.00	7,668.35	16.37	138.66	67.88	1,844.59	4,909.50	7,029.64	6,928.31	101.32	69.377		
2,700.00	2,498.20	15,243.00	7,668.35	17.63	138.66	67.88	1,844.59	4,909.50	6,929.80	6,828.33	101.47	68.296		
2,800.00	2,576.32	15,243.00	7,668.35	18.89	138.66	67.88	1,844.59	4,909.50	6,829.97	6,728.36	101.62	67.213		
2,900.00	2,654.43	15,243.00	7,668.35	20.17	138.66	67.88	1,844.59	4,909.50	6,730.15	6,628.38	101.77	66.131		
3,000.00	2,732.55	15,243.00	7,668.35	21.45	138.66	67.88	1,844.59	4,909.50	6,630.33	6,528.40	101.93	65.048		
3,100.00	2,810.67	15,243.00	7,668.35	22.74	138.66	67.88	1,844.59	4,909.50	6,530.51	6,428.42	102.10	63.965		
3,200.00	2,888.78	15,243.00	7,668.35	24.03	138.66	67.88	1,844.59	4,909.50	6,430.70	6,328.44	102.27	62.881		
3,300.00	2,966.90	15,243.00	7,668.35	25.33	138.66	67.88	1,844.59	4,909.50	6,330.90	6,228.46	102.45	61.798		
3,400.00	3,045.02	15,243.00	7,668.35	26.63	138.66	67.88	1,844.59	4,909.50	6,231.10	6,128.47	102.63	60.715		
3,500.00	3,123.13	15,243.00	7,668.35	27.94	138.66	67.88	1,844.59	4,909.50	6,131.31	6,028.49	102.82	59.632		
3,600.00	3,201.25	15,243.00	7,668.35	29.24	138.66	67.88	1,844.59	4,909.50	6,031.53	5,928.51	103.02	58.549		
3,700.00	3,279.37	15,243.00	7,668.35	30.55	138.66	67.88	1,844.59	4,909.50	5,931.76	5,828.54	103.22	57.467		
3,800.00	3,357.49	15,243.00	7,668.35	31.86	138.66	67.88	1,844.59	4,909.50	5,831.99	5,728.56	103.43	56.386		
3,900.00	3,435.60	15,243.00	7,668.35	33.18	138.66	67.88	1,844.59	4,909.50	5,732.23	5,628.58	103.65	55.305		
4,000.00	3,513.72	15,243.00	7,668.35	34.49	138.66	67.88	1,844.59	4,909.50	5,632.48	5,528.60	103.87	54.225		
4,100.00	3,591.84	15,243.00	7,668.35	35.81	138.66	67.88	1,844.59	4,909.50	5,532.73	5,428.63	104.11	53.146		
4,200.00	3,669.95	15,243.00	7,668.35	37.12	138.66	67.88	1,844.59	4,909.50	5,433.00	5,328.66	104.35	52.067		
4,300.00	3,748.07	15,243.00	7,668.35	38.44	138.66	67.88	1,844.59	4,909.50	5,333.28	5,228.68	104.59	50.990		
4,400.00	3,826.19	15,243.00	7,668.35	39.76	138.66	67.88	1,844.59	4,909.50	5,233.57	5,128.72	104.85	49.914		
4,500.00	3,904.30	15,243.00	7,668.35	41.08	138.66	67.88	1,844.59	4,909.50	5,133.87	5,028.75	105.12	48.840		
4,600.00	3,982.42	15,243.00	7,668.35	42.40	138.66	67.88	1,844.59	4,909.50	5,034.18	4,928.78	105.39	47.766		
4,700.00	4,060.54	15,243.00	7,668.35	43.72	138.66	67.88	1,844.59	4,909.50	4,934.50	4,828.82	105.68	46.694		
4,800.00	4,138.66	15,243.00	7,668.35	45.05	138.66	67.88	1,844.59	4,909.50	4,834.84	4,728.87	105.97	45.624		
4,900.00	4,216.77	15,243.00	7,668.35	46.37	138.66	67.88	1,844.59	4,909.50	4,735.19	4,628.91	106.28	44.555		
5,000.00	4,294.89	15,243.00	7,668.35	47.69	138.66	67.88	1,844.59	4,909.50	4,635.55	4,528.96	106.59	43.488		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	15,243.00	7,668.35	49.02	138.66	67.88	1,844.59	4,909.50	4,535.94	4,429.01	106.92	42.423		
5,200.00	4,451.12	15,243.00	7,668.35	50.34	138.66	67.88	1,844.59	4,909.50	4,436.33	4,329.07	107.26	41.359		
5,300.00	4,529.24	15,243.00	7,668.35	51.67	138.66	67.88	1,844.59	4,909.50	4,336.75	4,229.14	107.62	40.298		
5,400.00	4,607.36	15,243.00	7,668.35	52.99	138.66	67.88	1,844.59	4,909.50	4,237.19	4,129.20	107.99	39.239		
5,500.00	4,685.47	15,243.00	7,668.35	54.32	138.66	67.88	1,844.59	4,909.50	4,137.65	4,029.28	108.37	38.181		
5,600.00	4,763.59	15,243.00	7,668.35	55.64	138.66	67.88	1,844.59	4,909.50	4,038.13	3,929.36	108.77	37.126		
5,700.00	4,841.71	15,243.00	7,668.35	56.97	138.66	67.88	1,844.59	4,909.50	3,938.64	3,829.45	109.18	36.073		
5,800.00	4,919.83	15,243.00	7,668.35	58.30	138.66	67.88	1,844.59	4,909.50	3,839.17	3,729.55	109.62	35.023		
5,900.00	4,997.94	15,243.00	7,668.35	59.62	138.66	67.88	1,844.59	4,909.50	3,739.73	3,629.65	110.07	33.975		
6,000.00	5,076.06	15,243.00	7,668.35	60.95	138.66	67.88	1,844.59	4,909.50	3,640.32	3,529.77	110.55	32.929		
6,100.00	5,154.18	15,243.00	7,668.35	62.28	138.66	67.88	1,844.59	4,909.50	3,540.94	3,429.89	111.05	31.886		
6,200.00	5,232.29	15,243.00	7,668.35	63.61	138.66	67.88	1,844.59	4,909.50	3,441.60	3,330.03	111.57	30.846		
6,300.00	5,310.41	15,243.00	7,668.35	64.93	138.66	67.88	1,844.59	4,909.50	3,342.30	3,230.18	112.12	29.809		
6,400.00	5,388.53	15,243.00	7,668.35	66.26	138.66	67.88	1,844.59	4,909.50	3,243.05	3,130.34	112.70	28.775		
6,500.00	5,466.64	15,243.00	7,668.35	67.59	138.66	67.88	1,844.59	4,909.50	3,143.83	3,030.52	113.32	27.744		
6,600.00	5,544.76	15,243.00	7,668.35	68.92	138.66	67.88	1,844.59	4,909.50	3,044.68	2,930.71	113.96	26.716		
6,700.00	5,622.88	15,243.00	7,668.35	70.25	138.66	67.88	1,844.59	4,909.50	2,945.57	2,830.92	114.65	25.692		
6,800.00	5,701.00	15,243.00	7,668.35	71.58	138.66	67.88	1,844.59	4,909.50	2,846.54	2,731.16	115.38	24.671		
6,900.00	5,779.11	15,243.00	7,668.35	72.91	138.66	67.88	1,844.59	4,909.50	2,747.57	2,631.41	116.16	23.654		
7,000.00	5,857.23	15,243.00	7,668.35	74.23	138.66	67.88	1,844.59	4,909.50	2,648.67	2,531.69	116.99	22.641		
7,100.00	5,935.35	15,243.00	7,668.35	75.56	138.66	67.88	1,844.59	4,909.50	2,549.87	2,432.00	117.87	21.632		
7,200.00	6,013.46	15,243.00	7,668.35	76.89	138.66	67.88	1,844.59	4,909.50	2,451.16	2,332.33	118.83	20.628		
7,300.00	6,091.58	15,243.00	7,668.35	78.22	138.66	67.88	1,844.59	4,909.50	2,352.56	2,232.71	119.85	19.628		
7,400.00	6,169.70	15,243.00	7,668.35	79.55	138.66	67.88	1,844.59	4,909.50	2,254.09	2,133.12	120.97	18.634		
7,500.00	6,247.81	15,243.00	7,668.35	80.88	138.66	67.88	1,844.59	4,909.50	2,155.75	2,033.58	122.17	17.646		
7,600.00	6,325.93	15,243.00	7,668.35	82.21	138.66	67.88	1,844.59	4,909.50	2,057.58	1,934.09	123.48	16.663		
7,700.00	6,404.05	15,243.00	7,668.35	83.54	138.66	67.88	1,844.59	4,909.50	1,959.58	1,834.67	124.92	15.687		
7,800.00	6,482.17	15,243.00	7,668.35	84.87	138.66	67.88	1,844.59	4,909.50	1,861.81	1,735.32	126.49	14.719		
7,900.00	6,560.28	15,243.00	7,668.35	86.20	138.66	67.88	1,844.59	4,909.50	1,764.28	1,636.05	128.23	13.759		
8,000.00	6,638.40	15,243.00	7,668.35	87.53	138.66	67.88	1,844.59	4,909.50	1,667.05	1,536.89	130.16	12.808		
8,100.00	6,716.52	15,243.00	7,668.35	88.86	138.66	67.88	1,844.59	4,909.50	1,570.16	1,437.85	132.30	11.868		
8,200.00	6,794.63	15,243.00	7,668.35	90.20	138.66	67.88	1,844.59	4,909.50	1,473.69	1,338.98	134.71	10.940		
8,300.00	6,872.75	15,243.00	7,668.35	91.53	138.66	67.88	1,844.59	4,909.50	1,377.72	1,240.30	137.42	10.025		
8,400.00	6,950.87	15,244.05	7,668.36	92.86	138.68	67.98	1,843.54	4,909.52	1,282.37	1,141.80	140.57	9.123		
8,500.00	7,028.98	15,219.89	7,668.17	94.19	138.26	65.68	1,867.68	4,908.98	1,187.56	1,045.22	142.33	8.343		
8,600.00	7,107.10	15,195.74	7,667.99	95.52	137.84	63.18	1,891.83	4,908.43	1,093.14	948.76	144.37	7.572		
8,647.91	7,144.53	15,191.83	7,667.90	96.16	137.77	61.90	1,903.40	4,908.17	1,048.07	902.49	145.57	7.200		
8,650.00	7,146.16	15,192.33	7,667.90	96.18	137.78	61.16	1,903.90	4,908.16	1,046.10	900.47	145.64	7.183		
8,700.00	7,185.66	15,176.54	7,667.85	96.84	137.50	41.97	1,911.03	4,908.01	998.76	851.76	147.00	6.794		
8,750.00	7,225.78	15,171.94	7,667.83	97.47	137.42	19.34	1,915.62	4,907.91	950.97	802.48	148.49	6.404		
8,800.00	7,266.21	15,170.87	7,667.83	98.08	137.40	-4.16	1,916.70	4,907.89	903.11	753.06	150.05	6.019		
8,850.00	7,306.63	15,173.42	7,667.84	98.64	137.45	-25.45	1,914.15	4,907.94	855.59	703.89	151.70	5.640		
8,900.00	7,346.75	15,179.69	7,667.87	99.17	137.56	-43.05	1,907.88	4,908.08	808.82	655.38	153.44	5.271		
8,950.00	7,386.25	15,190.04	7,667.94	99.64	137.74	-57.02	1,897.53	4,908.30	763.21	607.91	155.30	4.914		
9,000.00	7,424.84	15,206.09	7,668.07	100.06	138.02	-67.85	1,881.49	4,908.67	719.16	561.67	157.49	4.566		
9,050.00	7,462.22	15,226.20	7,668.22	100.42	138.37	-76.39	1,861.38	4,909.12	677.03	517.20	159.83	4.236		
9,100.00	7,498.11	15,243.00	7,668.35	100.74	138.66	-83.71	1,844.59	4,909.50	637.22	475.81	161.41	3.948		
9,150.00	7,532.24	15,243.00	7,668.35	100.99	138.66	-90.81	1,844.59	4,909.50	600.94	440.60	160.34	3.748		
9,200.00	7,564.34	15,243.00	7,668.35	101.19	138.66	-96.43	1,844.59	4,909.50	569.44	410.80	158.64	3.590		
9,250.00	7,594.17	15,243.00	7,668.35	101.34	138.66	-100.84	1,844.59	4,909.50	543.79	387.19	156.61	3.472		
9,300.00	7,621.50	15,243.00	7,668.35	101.45	138.66	-104.23	1,844.59	4,909.50	525.07	370.16	154.91	3.390		
9,350.00	7,646.13	15,243.00	7,668.35	101.50	138.66	-106.74	1,844.59	4,909.50	514.17	359.90	154.27	3.333		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,389.49	7,663.55	15,243.00	7,668.35	101.51	138.66	-108.15	1,844.59	4,909.50	511.50	356.90	154.60	3.309	CC, ES	
9,400.00	7,667.87	15,243.00	7,668.35	101.51	138.66	-108.45	1,844.59	4,909.50	511.69	356.91	154.77	3.306	SF	
9,450.00	7,686.55	15,243.00	7,668.35	101.48	138.66	-109.40	1,844.59	4,909.50	517.75	361.97	155.78	3.324		
9,500.00	7,702.04	15,243.00	7,668.35	101.42	138.66	-109.61	1,844.59	4,909.50	532.03	375.45	156.59	3.398		
9,550.00	7,714.20	15,243.00	7,668.35	101.33	138.66	-109.03	1,844.59	4,909.50	553.79	396.94	156.85	3.531		
9,600.00	7,722.96	15,243.00	7,668.35	101.20	138.66	-107.59	1,844.59	4,909.50	582.03	425.51	156.52	3.719		
9,650.00	7,728.24	15,243.00	7,668.35	101.06	138.66	-105.13	1,844.59	4,909.50	615.67	459.92	155.76	3.953		
9,699.97	7,730.00	15,243.00	7,668.35	100.90	138.66	-101.42	1,844.59	4,909.50	653.61	498.89	154.72	4.224		
9,800.00	7,730.00	15,243.00	7,668.35	100.56	138.66	-101.42	1,844.59	4,909.50	735.72	583.27	152.45	4.826		
9,900.00	7,730.00	15,243.00	7,668.35	100.24	138.66	-101.42	1,844.59	4,909.50	821.79	671.55	150.24	5.470		
10,000.00	7,730.00	15,243.00	7,668.35	99.93	138.66	-101.42	1,844.59	4,909.50	910.70	762.51	148.19	6.145		
10,100.00	7,730.00	15,243.00	7,668.35	99.64	138.66	-101.42	1,844.59	4,909.50	1,001.71	855.35	146.36	6.844		
10,200.00	7,730.00	15,243.00	7,668.35	99.36	138.66	-101.42	1,844.59	4,909.50	1,094.29	949.54	144.75	7.560		
10,300.00	7,730.00	15,243.00	7,668.35	99.09	138.66	-101.42	1,844.59	4,909.50	1,188.07	1,044.73	143.34	8.289		
10,400.00	7,730.00	15,243.00	7,668.35	98.84	138.66	-101.42	1,844.59	4,909.50	1,282.79	1,140.69	142.11	9.027		
10,500.00	7,730.00	15,243.00	7,668.35	98.61	138.66	-101.42	1,844.59	4,909.50	1,378.26	1,237.23	141.03	9.773		
10,600.00	7,730.00	15,243.00	7,668.35	98.39	138.66	-101.42	1,844.59	4,909.50	1,474.33	1,334.24	140.09	10.524		
10,700.00	7,730.00	15,243.00	7,668.35	98.18	138.66	-101.42	1,844.59	4,909.50	1,570.89	1,431.62	139.27	11.279		
10,800.00	7,730.00	15,243.00	7,668.35	97.99	138.66	-101.42	1,844.59	4,909.50	1,667.86	1,529.31	138.55	12.038		
10,900.00	7,730.00	15,243.00	7,668.35	97.81	138.66	-101.42	1,844.59	4,909.50	1,765.16	1,627.25	137.91	12.799		
11,000.00	7,730.00	15,243.00	7,668.35	97.64	138.66	-101.42	1,844.59	4,909.50	1,862.75	1,725.40	137.35	13.562		
11,100.00	7,730.00	15,243.00	7,668.35	97.50	138.66	-101.42	1,844.59	4,909.50	1,960.58	1,823.73	136.85	14.327		
11,200.00	7,730.00	15,243.00	7,668.35	97.36	138.66	-101.42	1,844.59	4,909.50	2,058.62	1,922.22	136.41	15.092		
11,300.00	7,730.00	15,243.00	7,668.35	97.24	138.66	-101.42	1,844.59	4,909.50	2,156.84	2,020.83	136.01	15.858		
11,400.00	7,730.00	15,243.00	7,668.35	97.14	138.66	-101.42	1,844.59	4,909.50	2,255.22	2,119.56	135.66	16.625		
11,500.00	7,730.00	15,243.00	7,668.35	97.06	138.66	-101.42	1,844.59	4,909.50	2,353.73	2,218.40	135.34	17.392		
11,600.00	7,730.00	15,243.00	7,668.35	96.98	138.66	-101.42	1,844.59	4,909.50	2,452.37	2,317.32	135.05	18.159		
11,700.00	7,730.00	15,243.00	7,668.35	96.93	138.66	-101.42	1,844.59	4,909.50	2,551.11	2,416.31	134.79	18.926		
11,800.00	7,730.00	15,243.00	7,668.35	96.90	138.66	-101.42	1,844.59	4,909.50	2,649.94	2,515.38	134.56	19.693		
11,900.00	7,730.00	15,243.00	7,668.35	96.88	138.66	-101.42	1,844.59	4,909.50	2,748.86	2,614.51	134.35	20.460		
12,000.00	7,730.00	15,243.00	7,668.35	96.88	138.66	-101.42	1,844.59	4,909.50	2,847.86	2,713.70	134.16	21.227		
12,100.00	7,730.00	15,243.00	7,668.35	96.90	138.66	-101.42	1,844.59	4,909.50	2,946.92	2,812.94	133.99	21.994		
12,200.00	7,730.00	15,243.00	7,668.35	96.94	138.66	-101.42	1,844.59	4,909.50	3,046.04	2,912.22	133.83	22.761		
12,300.00	7,730.00	15,243.00	7,668.35	97.00	138.66	-101.42	1,844.59	4,909.50	3,145.22	3,011.54	133.68	23.528		
12,400.00	7,730.00	15,243.00	7,668.35	97.08	138.66	-101.42	1,844.59	4,909.50	3,244.45	3,110.90	133.55	24.294		
12,500.00	7,730.00	15,243.00	7,668.35	97.18	138.66	-101.42	1,844.59	4,909.50	3,343.73	3,210.30	133.43	25.060		
12,600.00	7,730.00	15,243.00	7,668.35	97.31	138.66	-101.42	1,844.59	4,909.50	3,443.05	3,309.73	133.32	25.826		
12,700.00	7,730.00	15,243.00	7,668.35	97.46	138.66	-101.42	1,844.59	4,909.50	3,542.40	3,409.19	133.22	26.592		
12,800.00	7,730.00	15,243.00	7,668.35	97.64	138.66	-101.42	1,844.59	4,909.50	3,641.79	3,508.67	133.12	27.357		
12,900.00	7,730.00	15,243.00	7,668.35	97.85	138.66	-101.42	1,844.59	4,909.50	3,741.22	3,608.18	133.04	28.122		
13,000.00	7,730.00	15,243.00	7,668.35	98.09	138.66	-101.42	1,844.59	4,909.50	3,840.67	3,707.71	132.96	28.887		
13,100.00	7,730.00	15,243.00	7,668.35	98.35	138.66	-101.42	1,844.59	4,909.50	3,940.15	3,807.27	132.88	29.651		
13,200.00	7,730.00	15,243.00	7,668.35	98.65	138.66	-101.42	1,844.59	4,909.50	4,039.66	3,906.84	132.82	30.415		
13,300.00	7,730.00	15,243.00	7,668.35	98.98	138.66	-101.42	1,844.59	4,909.50	4,139.19	4,006.43	132.76	31.179		
13,400.00	7,730.00	15,243.00	7,668.35	99.34	138.66	-101.42	1,844.59	4,909.50	4,238.74	4,106.04	132.70	31.943		
13,500.00	7,730.00	15,243.00	7,668.35	99.74	138.66	-101.42	1,844.59	4,909.50	4,338.32	4,205.67	132.65	32.706		
13,600.00	7,730.00	15,243.00	7,668.35	100.17	138.66	-101.42	1,844.59	4,909.50	4,437.91	4,305.31	132.60	33.469		
13,700.00	7,730.00	15,243.00	7,668.35	100.65	138.66	-101.42	1,844.59	4,909.50	4,537.52	4,404.97	132.55	34.232		
13,800.00	7,730.00	15,243.00	7,668.35	101.16	138.66	-101.42	1,844.59	4,909.50	4,637.15	4,504.63	132.51	34.994		
13,900.00	7,730.00	15,243.00	7,668.35	101.71	138.66	-101.42	1,844.59	4,909.50	4,736.79	4,604.31	132.47	35.756		
14,000.00	7,730.00	15,243.00	7,668.35	102.30	138.66	-101.42	1,844.59	4,909.50	4,836.45	4,704.01	132.44	36.518		
14,100.00	7,730.00	15,243.00	7,668.35	102.93	138.66	-101.42	1,844.59	4,909.50	4,936.12	4,803.71	132.41	37.280		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,243.00	7,668.35	103.60	138.66	-101.42	1,844.59	4,909.50	5,035.80	4,903.42	132.38	38.041		
14,300.00	7,730.00	15,243.00	7,668.35	104.32	138.66	-101.42	1,844.59	4,909.50	5,135.50	5,003.15	132.35	38.802		
14,400.00	7,730.00	15,243.00	7,668.35	105.07	138.66	-101.42	1,844.59	4,909.50	5,235.21	5,102.88	132.33	39.563		
14,500.00	7,730.00	15,243.00	7,668.35	105.86	138.66	-101.42	1,844.59	4,909.50	5,334.93	5,202.62	132.30	40.323		
14,600.00	7,730.00	15,243.00	7,668.35	106.70	138.66	-101.42	1,844.59	4,909.50	5,434.66	5,302.37	132.28	41.083		
14,700.00	7,730.00	15,243.00	7,668.35	107.57	138.66	-101.42	1,844.59	4,909.50	5,534.40	5,402.13	132.27	41.843		
14,800.00	7,730.00	15,243.00	7,668.35	108.48	138.66	-101.42	1,844.59	4,909.50	5,634.14	5,501.89	132.25	42.602		
14,900.00	7,730.00	15,243.00	7,668.35	109.43	138.66	-101.42	1,844.59	4,909.50	5,733.90	5,601.67	132.23	43.362		
15,000.00	7,730.00	15,243.00	7,668.35	110.42	138.66	-101.42	1,844.59	4,909.50	5,833.67	5,701.45	132.22	44.121		
15,100.00	7,730.00	15,243.00	7,668.35	111.43	138.66	-101.42	1,844.59	4,909.50	5,933.44	5,801.23	132.21	44.879		
15,200.00	7,730.00	15,243.00	7,668.35	112.49	138.66	-101.42	1,844.59	4,909.50	6,033.22	5,901.02	132.20	45.638		
15,300.00	7,730.00	15,243.00	7,668.35	113.57	138.66	-101.42	1,844.59	4,909.50	6,133.01	6,000.82	132.19	46.396		
15,400.00	7,730.00	15,243.00	7,668.35	114.68	138.66	-101.42	1,844.59	4,909.50	6,232.80	6,100.62	132.18	47.153		
15,500.00	7,730.00	15,243.00	7,668.35	115.82	138.66	-101.42	1,844.59	4,909.50	6,332.61	6,200.43	132.18	47.911		
15,600.00	7,730.00	15,243.00	7,668.35	116.99	138.66	-101.42	1,844.59	4,909.50	6,432.41	6,300.24	132.17	48.668		
15,700.00	7,730.00	15,243.00	7,668.35	118.19	138.66	-101.42	1,844.59	4,909.50	6,532.23	6,400.06	132.17	49.425		
15,800.00	7,730.00	15,243.00	7,668.35	119.41	138.66	-101.42	1,844.59	4,909.50	6,632.05	6,499.88	132.16	50.181		
15,900.00	7,730.00	15,243.00	7,668.35	120.65	138.66	-101.42	1,844.59	4,909.50	6,731.87	6,599.71	132.16	50.937		
16,000.00	7,730.00	15,243.00	7,668.35	121.91	138.66	-101.42	1,844.59	4,909.50	6,831.70	6,699.54	132.16	51.693		
16,100.00	7,730.00	15,243.00	7,668.35	123.20	138.66	-101.42	1,844.59	4,909.50	6,931.53	6,799.38	132.16	52.449		
16,200.00	7,730.00	15,243.00	7,668.35	124.50	138.66	-101.42	1,844.59	4,909.50	7,031.37	6,899.21	132.16	53.204		
16,300.00	7,730.00	15,243.00	7,668.35	125.82	138.66	-101.42	1,844.59	4,909.50	7,131.22	6,999.06	132.16	53.959		
16,400.00	7,730.00	15,243.00	7,668.35	127.16	138.66	-101.42	1,844.59	4,909.50	7,231.07	7,098.90	132.16	54.713		
16,500.00	7,730.00	15,243.00	7,668.35	128.52	138.66	-101.42	1,844.59	4,909.50	7,330.92	7,198.75	132.17	55.468		
16,600.00	7,730.00	15,243.00	7,668.35	129.89	138.66	-101.42	1,844.59	4,909.50	7,430.77	7,298.60	132.17	56.222		
16,700.00	7,730.00	15,243.00	7,668.35	131.27	138.66	-101.42	1,844.59	4,909.50	7,530.63	7,398.46	132.17	56.975		
16,800.00	7,730.00	15,243.00	7,668.35	132.67	138.66	-101.42	1,844.59	4,909.50	7,630.50	7,498.32	132.18	57.729		
16,900.00	7,730.00	15,243.00	7,668.35	134.09	138.66	-101.42	1,844.59	4,909.50	7,730.36	7,598.18	132.18	58.481		
17,000.00	7,730.00	15,243.00	7,668.35	135.51	138.66	-101.42	1,844.59	4,909.50	7,830.24	7,698.04	132.19	59.234		
17,100.00	7,730.00	15,243.00	7,668.35	136.95	138.66	-101.42	1,844.59	4,909.50	7,930.11	7,797.91	132.20	59.986		
17,200.00	7,730.00	15,243.00	7,668.35	138.40	138.66	-101.42	1,844.59	4,909.50	8,029.99	7,897.78	132.21	60.738		
17,300.00	7,730.00	15,243.00	7,668.35	139.85	138.66	-101.42	1,844.59	4,909.50	8,129.87	7,997.65	132.21	61.490		
17,400.00	7,730.00	15,243.00	7,668.35	141.32	138.66	-101.42	1,844.59	4,909.50	8,229.75	8,097.53	132.22	62.241		
17,500.00	7,730.00	15,243.00	7,668.35	142.80	138.66	-101.42	1,844.59	4,909.50	8,329.63	8,197.40	132.23	62.992		
17,600.00	7,730.00	15,243.00	7,668.35	144.28	138.66	-101.42	1,844.59	4,909.50	8,429.52	8,297.28	132.24	63.742		
17,700.00	7,730.00	15,243.00	7,668.35	145.78	138.66	-101.42	1,844.59	4,909.50	8,529.41	8,397.16	132.25	64.493		
17,800.00	7,730.00	15,243.00	7,668.35	147.28	138.66	-101.42	1,844.59	4,909.50	8,629.31	8,497.04	132.27	65.242		
17,900.00	7,730.00	15,243.00	7,668.35	148.79	138.66	-101.42	1,844.59	4,909.50	8,729.20	8,596.93	132.28	65.992		
18,000.00	7,730.00	15,243.00	7,668.35	150.31	138.66	-101.42	1,844.59	4,909.50	8,829.10	8,696.81	132.29	66.741		
18,100.00	7,730.00	15,243.00	7,668.35	151.83	138.66	-101.42	1,844.59	4,909.50	8,929.00	8,796.70	132.30	67.490		
18,200.00	7,730.00	15,243.00	7,668.35	153.37	138.66	-101.42	1,844.59	4,909.50	9,028.91	8,896.59	132.32	68.238		
18,300.00	7,730.00	15,243.00	7,668.35	154.90	138.66	-101.42	1,844.59	4,909.50	9,128.81	8,996.48	132.33	68.986		
18,400.00	7,730.00	15,243.00	7,668.35	156.45	138.66	-101.42	1,844.59	4,909.50	9,228.72	9,096.37	132.34	69.733		
18,500.00	7,730.00	15,243.00	7,668.35	158.00	138.66	-101.42	1,844.59	4,909.50	9,328.63	9,196.27	132.36	70.481		
18,600.00	7,730.00	15,243.00	7,668.35	159.55	138.66	-101.42	1,844.59	4,909.50	9,428.54	9,296.17	132.37	71.227		
18,700.00	7,730.00	15,243.00	7,668.35	161.11	138.66	-101.42	1,844.59	4,909.50	9,528.45	9,396.06	132.39	71.974		
18,800.00	7,730.00	15,243.00	7,668.35	162.68	138.66	-101.42	1,844.59	4,909.50	9,628.36	9,495.96	132.40	72.720		
18,900.00	7,730.00	15,243.00	7,668.35	164.25	138.66	-101.42	1,844.59	4,909.50	9,728.28	9,595.86	132.42	73.465		
19,000.00	7,730.00	15,243.00	7,668.35	165.83	138.66	-101.42	1,844.59	4,909.50	9,828.20	9,695.76	132.44	74.211		
19,100.00	7,730.00	15,243.00	7,668.35	167.41	138.66	-101.42	1,844.59	4,909.50	9,928.12	9,795.67	132.45	74.955		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,134.00	7,566.57	0.00	139.08	65.49	1,824.04	4,001.23	8,872.89					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.49	1,824.04	4,001.23	8,786.18	8,700.72	85.46	102.815		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.49	1,824.04	4,001.23	8,699.75	8,613.92	85.83	101.362		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.49	1,824.04	4,001.23	8,613.61	8,527.38	86.23	99.891		
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.49	1,824.04	4,001.23	8,527.78	8,441.12	86.66	98.404		
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.49	1,824.04	4,001.23	8,442.26	8,355.14	87.12	96.904		
600.00	599.98	15,134.00	7,566.57	1.92	139.08	0.15	1,824.04	4,001.23	8,356.15	8,268.54	87.61	95.379		
700.00	699.84	15,134.00	7,566.57	2.28	139.08	0.16	1,824.04	4,001.23	8,268.62	8,180.50	88.11	93.842		
800.00	799.45	15,134.00	7,566.57	2.64	139.08	0.17	1,824.04	4,001.23	8,179.70	8,091.10	88.60	92.318		
900.00	898.70	15,134.00	7,566.57	3.02	139.08	0.18	1,824.04	4,001.23	8,089.48	8,000.40	89.08	90.810		
1,000.00	997.47	15,134.00	7,566.57	3.41	139.08	0.20	1,824.04	4,001.23	7,998.01	7,908.47	89.54	89.319		
1,100.00	1,095.62	15,134.00	7,566.57	3.84	139.08	0.22	1,824.04	4,001.23	7,905.38	7,815.39	89.99	87.849		
1,200.00	1,193.06	15,134.00	7,566.57	4.29	139.08	0.24	1,824.04	4,001.23	7,811.64	7,721.23	90.41	86.401		
1,300.00	1,289.64	15,134.00	7,566.57	4.78	139.08	0.27	1,824.04	4,001.23	7,716.88	7,626.07	90.81	84.976		
1,400.00	1,385.27	15,134.00	7,566.57	5.32	139.08	0.30	1,824.04	4,001.23	7,621.18	7,529.99	91.19	83.576		
1,500.00	1,479.82	15,134.00	7,566.57	5.90	139.08	0.34	1,824.04	4,001.23	7,524.62	7,433.08	91.54	82.201		
1,600.00	1,573.17	15,134.00	7,566.57	6.53	139.08	0.39	1,824.04	4,001.23	7,427.28	7,335.42	91.86	80.854		
1,700.00	1,665.21	15,134.00	7,566.57	7.23	139.08	0.47	1,824.04	4,001.23	7,329.26	7,237.11	92.15	79.535		
1,800.00	1,755.84	15,134.00	7,566.57	7.98	139.08	0.58	1,824.04	4,001.23	7,230.65	7,138.24	92.41	78.245		
1,900.00	1,844.94	15,134.00	7,566.57	8.80	139.08	0.75	1,824.04	4,001.23	7,131.55	7,038.92	92.63	76.986		
2,000.00	1,932.39	15,134.00	7,566.57	9.68	139.08	1.06	1,824.04	4,001.23	7,032.06	6,939.24	92.82	75.758		
2,100.00	2,018.11	15,134.00	7,566.57	10.63	139.08	1.81	1,824.04	4,001.23	6,932.29	6,839.32	92.97	74.563		
2,200.00	2,101.97	15,134.00	7,566.57	11.65	139.08	5.90	1,824.04	4,001.23	6,832.35	6,739.27	93.08	73.401		
2,300.00	2,183.88	15,134.00	7,566.57	12.74	139.08	175.25	1,824.04	4,001.23	6,732.36	6,639.21	93.15	72.274		
2,400.00	2,263.74	15,134.00	7,566.57	13.90	139.08	178.29	1,824.04	4,001.23	6,632.43	6,539.26	93.18	71.181		
2,431.61	2,288.54	15,134.00	7,566.57	14.29	139.08	178.57	1,824.04	4,001.23	6,600.88	6,507.71	93.17	70.844		
2,500.00	2,341.97	15,134.00	7,566.57	15.13	139.08	178.57	1,824.04	4,001.23	6,532.64	6,439.47	93.17	70.116		
2,600.00	2,420.08	15,134.00	7,566.57	16.37	139.08	178.57	1,824.04	4,001.23	6,432.87	6,339.71	93.16	69.051		
2,700.00	2,498.20	15,134.00	7,566.57	17.63	139.08	178.57	1,824.04	4,001.23	6,333.10	6,239.95	93.16	67.984		
2,800.00	2,576.32	15,134.00	7,566.57	18.89	139.08	178.57	1,824.04	4,001.23	6,233.35	6,140.20	93.15	66.916		
2,900.00	2,654.43	15,134.00	7,566.57	20.17	139.08	178.57	1,824.04	4,001.23	6,133.60	6,040.45	93.15	65.848		
3,000.00	2,732.55	15,134.00	7,566.57	21.45	139.08	178.57	1,824.04	4,001.23	6,033.86	5,940.71	93.15	64.778		
3,100.00	2,810.67	15,134.00	7,566.57	22.74	139.08	178.57	1,824.04	4,001.23	5,934.12	5,840.98	93.14	63.709		
3,200.00	2,888.78	15,134.00	7,566.57	24.03	139.08	178.57	1,824.04	4,001.23	5,834.40	5,741.26	93.14	62.638		
3,300.00	2,966.90	15,134.00	7,566.57	25.33	139.08	178.57	1,824.04	4,001.23	5,734.69	5,641.54	93.14	61.568		
3,400.00	3,045.02	15,134.00	7,566.57	26.63	139.08	178.57	1,824.04	4,001.23	5,634.98	5,541.84	93.14	60.497		
3,500.00	3,123.13	15,134.00	7,566.57	27.94	139.08	178.57	1,824.04	4,001.23	5,535.29	5,442.14	93.15	59.427		
3,600.00	3,201.25	15,134.00	7,566.57	29.24	139.08	178.57	1,824.04	4,001.23	5,435.61	5,342.46	93.15	58.356		
3,700.00	3,279.37	15,134.00	7,566.57	30.55	139.08	178.57	1,824.04	4,001.23	5,335.94	5,242.79	93.15	57.285		
3,800.00	3,357.49	15,134.00	7,566.57	31.86	139.08	178.57	1,824.04	4,001.23	5,236.28	5,143.13	93.15	56.215		
3,900.00	3,435.60	15,134.00	7,566.57	33.18	139.08	178.57	1,824.04	4,001.23	5,136.64	5,043.49	93.15	55.145		
4,000.00	3,513.72	15,134.00	7,566.57	34.49	139.08	178.57	1,824.04	4,001.23	5,037.01	4,943.86	93.15	54.076		
4,100.00	3,591.84	15,134.00	7,566.57	35.81	139.08	178.57	1,824.04	4,001.23	4,937.39	4,844.25	93.15	53.007		
4,200.00	3,669.95	15,134.00	7,566.57	37.12	139.08	178.57	1,824.04	4,001.23	4,837.79	4,744.65	93.14	51.939		
4,300.00	3,748.07	15,134.00	7,566.57	38.44	139.08	178.57	1,824.04	4,001.23	4,738.21	4,645.07	93.14	50.872		
4,400.00	3,826.19	15,134.00	7,566.57	39.76	139.08	178.57	1,824.04	4,001.23	4,638.65	4,545.51	93.13	49.806		
4,500.00	3,904.30	15,134.00	7,566.57	41.08	139.08	178.57	1,824.04	4,001.23	4,539.10	4,445.98	93.13	48.741		
4,600.00	3,982.42	15,134.00	7,566.57	42.40	139.08	178.57	1,824.04	4,001.23	4,439.58	4,346.46	93.12	47.677		
4,700.00	4,060.54	15,134.00	7,566.57	43.72	139.08	178.57	1,824.04	4,001.23	4,340.08	4,246.97	93.11	46.614		
4,800.00	4,138.66	15,134.00	7,566.57	45.05	139.08	178.57	1,824.04	4,001.23	4,240.60	4,147.51	93.09	45.552		
4,900.00	4,216.77	15,134.00	7,566.57	46.37	139.08	178.57	1,824.04	4,001.23	4,141.14	4,048.07	93.08	44.492		
5,000.00	4,294.89	15,134.00	7,566.57	47.69	139.08	178.57	1,824.04	4,001.23	4,041.72	3,948.66	93.05	43.434		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	15,134.00	7,566.57	49.02	139.08	178.57	1,824.04	4,001.23	3,942.32	3,849.29	93.03	42.377		
5,200.00	4,451.12	15,134.00	7,566.57	50.34	139.08	178.57	1,824.04	4,001.23	3,842.95	3,749.95	93.00	41.322		
5,300.00	4,529.24	15,134.00	7,566.57	51.67	139.08	178.57	1,824.04	4,001.23	3,743.62	3,650.65	92.97	40.269		
5,400.00	4,607.36	15,134.00	7,566.57	52.99	139.08	178.57	1,824.04	4,001.23	3,644.32	3,551.40	92.93	39.217		
5,500.00	4,685.47	15,134.00	7,566.57	54.32	139.08	178.57	1,824.04	4,001.23	3,545.07	3,452.19	92.88	38.168		
5,600.00	4,763.59	15,134.00	7,566.57	55.64	139.08	178.57	1,824.04	4,001.23	3,445.85	3,353.02	92.83	37.121		
5,700.00	4,841.71	15,134.00	7,566.57	56.97	139.08	178.57	1,824.04	4,001.23	3,346.68	3,253.92	92.77	36.075		
5,800.00	4,919.83	15,134.00	7,566.57	58.30	139.08	178.57	1,824.04	4,001.23	3,247.57	3,154.87	92.70	35.032		
5,900.00	4,997.94	15,134.00	7,566.57	59.62	139.08	178.57	1,824.04	4,001.23	3,148.51	3,055.88	92.63	33.992		
6,000.00	5,076.06	15,134.00	7,566.57	60.95	139.08	178.57	1,824.04	4,001.23	3,049.51	2,956.97	92.54	32.953		
6,100.00	5,154.18	15,134.00	7,566.57	62.28	139.08	178.57	1,824.04	4,001.23	2,950.58	2,858.13	92.44	31.917		
6,200.00	5,232.29	15,134.00	7,566.57	63.61	139.08	178.57	1,824.04	4,001.23	2,851.72	2,759.38	92.34	30.884		
6,300.00	5,310.41	15,134.00	7,566.57	64.93	139.08	178.57	1,824.04	4,001.23	2,752.95	2,660.73	92.22	29.853		
6,400.00	5,388.53	15,134.00	7,566.57	66.26	139.08	178.57	1,824.04	4,001.23	2,654.26	2,562.18	92.08	28.825		
6,500.00	5,466.64	15,134.00	7,566.57	67.59	139.08	178.57	1,824.04	4,001.23	2,555.68	2,463.75	91.93	27.799		
6,600.00	5,544.76	15,134.00	7,566.57	68.92	139.08	178.57	1,824.04	4,001.23	2,457.22	2,365.45	91.77	26.777		
6,700.00	5,622.88	15,134.00	7,566.57	70.25	139.08	178.57	1,824.04	4,001.23	2,358.88	2,267.30	91.58	25.757		
6,800.00	5,701.00	15,134.00	7,566.57	71.58	139.08	178.57	1,824.04	4,001.23	2,260.69	2,169.31	91.38	24.740		
6,900.00	5,779.11	15,134.00	7,566.57	72.91	139.08	178.57	1,824.04	4,001.23	2,162.67	2,071.51	91.15	23.725		
7,000.00	5,857.23	15,134.00	7,566.57	74.23	139.08	178.57	1,824.04	4,001.23	2,064.83	1,973.93	90.90	22.714		
7,100.00	5,935.35	15,134.00	7,566.57	75.56	139.08	178.57	1,824.04	4,001.23	1,967.22	1,876.59	90.63	21.706		
7,200.00	6,013.46	15,134.00	7,566.57	76.89	139.08	178.57	1,824.04	4,001.23	1,869.85	1,779.52	90.33	20.701		
7,300.00	6,091.58	15,134.00	7,566.57	78.22	139.08	178.57	1,824.04	4,001.23	1,772.78	1,682.78	90.00	19.699		
7,400.00	6,169.70	15,134.00	7,566.57	79.55	139.08	178.57	1,824.04	4,001.23	1,676.05	1,586.42	89.63	18.699		
7,500.00	6,247.81	15,134.00	7,566.57	80.88	139.08	178.57	1,824.04	4,001.23	1,579.73	1,490.49	89.24	17.702		
7,600.00	6,325.93	15,134.00	7,566.57	82.21	139.08	178.57	1,824.04	4,001.23	1,483.90	1,395.08	88.81	16.708		
7,700.00	6,404.05	15,134.00	7,566.57	83.54	139.08	178.57	1,824.04	4,001.23	1,388.65	1,300.29	88.36	15.716		
7,800.00	6,482.17	15,134.00	7,566.57	84.87	139.08	178.57	1,824.04	4,001.23	1,294.12	1,206.24	87.88	14.725		
7,900.00	6,560.28	15,134.00	7,566.57	86.20	139.08	178.57	1,824.04	4,001.23	1,200.48	1,113.08	87.40	13.735		
8,000.00	6,638.40	15,134.00	7,566.57	87.53	139.08	178.57	1,824.04	4,001.23	1,107.95	1,021.01	86.94	12.743		
8,100.00	6,716.52	15,134.00	7,566.57	88.86	139.08	178.57	1,824.04	4,001.23	1,016.84	930.28	86.56	11.747		
8,200.00	6,794.63	15,134.00	7,566.57	90.20	139.08	178.57	1,824.04	4,001.23	927.56	841.20	86.36	10.741		
8,300.00	6,872.75	15,134.00	7,566.57	91.53	139.08	178.57	1,824.04	4,001.23	840.70	754.18	86.51	9.718		
8,400.00	6,950.87	15,125.12	7,566.38	92.86	138.92	179.63	1,832.92	4,001.10	757.03	669.94	87.09	8.693		
8,500.00	7,028.98	15,101.69	7,565.86	94.19	138.52	-177.50	1,856.34	4,000.74	677.15	588.42	88.73	7.632		
8,600.00	7,107.10	15,079.73	7,565.34	95.52	138.13	-174.53	1,879.75	4,000.38	602.39	509.23	93.16	6.466		
8,647.91	7,144.53	15,067.65	7,565.11	96.16	137.93	-173.16	1,890.36	4,000.22	568.99	472.28	96.71	5.883		
8,650.00	7,146.16	15,067.19	7,565.10	96.18	137.92	-173.16	1,890.83	4,000.21	567.57	470.68	96.89	5.858		
8,700.00	7,185.66	15,058.12	7,564.92	96.84	137.76	-173.81	1,899.89	4,000.08	534.60	432.60	102.00	5.241		
8,750.00	7,225.78	15,053.10	7,564.82	97.47	137.67	-175.84	1,904.91	4,000.01	503.87	395.16	108.71	4.635		
8,800.00	7,266.21	15,052.23	7,564.80	98.08	137.66	-179.25	1,905.78	4,000.00	476.21	359.15	117.06	4.068		
8,850.00	7,306.63	15,055.60	7,564.87	98.64	137.72	176.13	1,902.42	4,000.05	452.44	325.56	126.88	3.566		
8,900.00	7,346.75	15,063.26	7,565.02	99.17	137.85	170.54	1,894.76	4,000.15	433.29	295.58	137.70	3.147		
8,950.00	7,386.25	15,075.23	7,565.27	99.64	138.06	164.19	1,882.79	4,000.33	419.30	270.46	148.84	2.817		
9,000.00	7,424.84	15,091.56	7,565.63	100.06	138.34	157.29	1,866.46	4,000.58	410.74	251.26	159.48	2.576		
9,050.00	7,462.22	15,112.02	7,566.09	100.42	138.70	150.02	1,846.01	4,000.89	407.52	238.60	168.92	2.412		
9,056.91	7,467.28	15,115.16	7,566.16	100.47	138.75	148.99	1,842.87	4,000.94	407.47	237.37	170.10	2.395 CC		
9,100.00	7,498.11	15,136.38	7,566.63	100.74	139.12	142.51	1,821.66	4,001.27	409.19	232.49	176.70	2.316		
9,150.00	7,532.24	15,134.00	7,566.57	100.99	139.08	138.34	1,824.04	4,001.23	416.13	230.15	185.98	2.238 ES		
9,200.00	7,564.34	15,134.00	7,566.57	101.19	139.08	133.84	1,824.04	4,001.23	428.57	235.34	193.23	2.218 SF		
9,250.00	7,594.17	15,134.00	7,566.57	101.34	139.08	129.27	1,824.04	4,001.23	445.98	247.35	198.63	2.245		
9,300.00	7,621.50	15,134.00	7,566.57	101.45	139.08	124.59	1,824.04	4,001.23	467.67	265.38	202.29	2.312		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	15,134.00	7,566.57	101.50	139.08	119.79	1,824.04	4,001.23	492.93	288.50	204.43	2.411		
9,400.00	7,667.87	15,134.00	7,566.57	101.51	139.08	114.91	1,824.04	4,001.23	521.06	315.73	205.32	2.538		
9,450.00	7,686.55	15,134.00	7,566.57	101.48	139.08	109.97	1,824.04	4,001.23	551.42	346.19	205.23	2.687		
9,500.00	7,702.04	15,134.00	7,566.57	101.42	139.08	105.06	1,824.04	4,001.23	583.45	379.08	204.37	2.855		
9,550.00	7,714.20	15,134.00	7,566.57	101.33	139.08	100.26	1,824.04	4,001.23	616.68	413.76	202.92	3.039		
9,600.00	7,722.96	15,134.00	7,566.57	101.20	139.08	95.66	1,824.04	4,001.23	650.68	449.66	201.02	3.237		
9,650.00	7,728.24	15,134.00	7,566.57	101.06	139.08	91.36	1,824.04	4,001.23	685.10	486.35	198.75	3.447		
9,699.97	7,730.00	15,134.00	7,566.57	100.90	139.08	87.42	1,824.04	4,001.23	719.61	523.42	196.19	3.668		
9,800.00	7,730.00	15,134.00	7,566.57	100.56	139.08	87.42	1,824.04	4,001.23	791.96	601.32	190.64	4.154		
9,900.00	7,730.00	15,134.00	7,566.57	100.24	139.08	87.42	1,824.04	4,001.23	869.78	684.72	185.06	4.700		
10,000.00	7,730.00	15,134.00	7,566.57	99.93	139.08	87.42	1,824.04	4,001.23	951.76	771.98	179.78	5.294		
10,100.00	7,730.00	15,134.00	7,566.57	99.64	139.08	87.42	1,824.04	4,001.23	1,036.90	861.97	174.93	5.927		
10,200.00	7,730.00	15,134.00	7,566.57	99.36	139.08	87.42	1,824.04	4,001.23	1,124.49	953.93	170.56	6.593		
10,300.00	7,730.00	15,134.00	7,566.57	99.09	139.08	87.42	1,824.04	4,001.23	1,214.00	1,047.36	166.65	7.285		
10,400.00	7,730.00	15,134.00	7,566.57	98.84	139.08	87.42	1,824.04	4,001.23	1,305.04	1,141.88	163.16	7.999		
10,500.00	7,730.00	15,134.00	7,566.57	98.61	139.08	87.42	1,824.04	4,001.23	1,397.30	1,237.25	160.04	8.731		
10,600.00	7,730.00	15,134.00	7,566.57	98.39	139.08	87.42	1,824.04	4,001.23	1,490.56	1,333.29	157.27	9.478		
10,700.00	7,730.00	15,134.00	7,566.57	98.18	139.08	87.42	1,824.04	4,001.23	1,584.64	1,429.85	154.79	10.237		
10,800.00	7,730.00	15,134.00	7,566.57	97.99	139.08	87.42	1,824.04	4,001.23	1,679.41	1,526.84	152.57	11.008		
10,900.00	7,730.00	15,134.00	7,566.57	97.81	139.08	87.42	1,824.04	4,001.23	1,774.75	1,624.18	150.57	11.787		
11,000.00	7,730.00	15,134.00	7,566.57	97.64	139.08	87.42	1,824.04	4,001.23	1,870.58	1,721.80	148.77	12.574		
11,100.00	7,730.00	15,134.00	7,566.57	97.50	139.08	87.42	1,824.04	4,001.23	1,966.82	1,819.67	147.14	13.367		
11,200.00	7,730.00	15,134.00	7,566.57	97.36	139.08	87.42	1,824.04	4,001.23	2,063.42	1,917.75	145.67	14.165		
11,300.00	7,730.00	15,134.00	7,566.57	97.24	139.08	87.42	1,824.04	4,001.23	2,160.33	2,016.00	144.33	14.968		
11,400.00	7,730.00	15,134.00	7,566.57	97.14	139.08	87.42	1,824.04	4,001.23	2,257.51	2,114.40	143.11	15.775		
11,500.00	7,730.00	15,134.00	7,566.57	97.06	139.08	87.42	1,824.04	4,001.23	2,354.92	2,212.93	141.99	16.585		
11,600.00	7,730.00	15,134.00	7,566.57	96.98	139.08	87.42	1,824.04	4,001.23	2,452.55	2,311.57	140.97	17.397		
11,700.00	7,730.00	15,134.00	7,566.57	96.93	139.08	87.42	1,824.04	4,001.23	2,550.35	2,410.32	140.03	18.213		
11,800.00	7,730.00	15,134.00	7,566.57	96.90	139.08	87.42	1,824.04	4,001.23	2,648.32	2,509.16	139.17	19.030		
11,900.00	7,730.00	15,134.00	7,566.57	96.88	139.08	87.42	1,824.04	4,001.23	2,746.44	2,608.07	138.37	19.849		
12,000.00	7,730.00	15,134.00	7,566.57	96.88	139.08	87.42	1,824.04	4,001.23	2,844.69	2,707.06	137.63	20.669		
12,100.00	7,730.00	15,134.00	7,566.57	96.90	139.08	87.42	1,824.04	4,001.23	2,943.06	2,806.11	136.95	21.490		
12,200.00	7,730.00	15,134.00	7,566.57	96.94	139.08	87.42	1,824.04	4,001.23	3,041.53	2,905.22	136.31	22.313		
12,300.00	7,730.00	15,134.00	7,566.57	97.00	139.08	87.42	1,824.04	4,001.23	3,140.10	3,004.38	135.72	23.136		
12,400.00	7,730.00	15,134.00	7,566.57	97.08	139.08	87.42	1,824.04	4,001.23	3,238.76	3,103.59	135.17	23.961		
12,500.00	7,730.00	15,134.00	7,566.57	97.18	139.08	87.42	1,824.04	4,001.23	3,337.50	3,202.84	134.66	24.785		
12,600.00	7,730.00	15,134.00	7,566.57	97.31	139.08	87.42	1,824.04	4,001.23	3,436.31	3,302.13	134.17	25.611		
12,700.00	7,730.00	15,134.00	7,566.57	97.46	139.08	87.42	1,824.04	4,001.23	3,535.18	3,401.46	133.72	26.436		
12,800.00	7,730.00	15,134.00	7,566.57	97.64	139.08	87.42	1,824.04	4,001.23	3,634.12	3,500.82	133.30	27.262		
12,900.00	7,730.00	15,134.00	7,566.57	97.85	139.08	87.42	1,824.04	4,001.23	3,733.12	3,600.21	132.91	28.088		
13,000.00	7,730.00	15,134.00	7,566.57	98.09	139.08	87.42	1,824.04	4,001.23	3,832.16	3,699.63	132.53	28.915		
13,100.00	7,730.00	15,134.00	7,566.57	98.35	139.08	87.42	1,824.04	4,001.23	3,931.26	3,799.08	132.18	29.741		
13,200.00	7,730.00	15,134.00	7,566.57	98.65	139.08	87.42	1,824.04	4,001.23	4,030.40	3,898.55	131.85	30.568		
13,300.00	7,730.00	15,134.00	7,566.57	98.98	139.08	87.42	1,824.04	4,001.23	4,129.58	3,998.04	131.54	31.395		
13,400.00	7,730.00	15,134.00	7,566.57	99.34	139.08	87.42	1,824.04	4,001.23	4,228.80	4,097.56	131.24	32.221		
13,500.00	7,730.00	15,134.00	7,566.57	99.74	139.08	87.42	1,824.04	4,001.23	4,328.06	4,197.09	130.96	33.048		
13,600.00	7,730.00	15,134.00	7,566.57	100.17	139.08	87.42	1,824.04	4,001.23	4,427.35	4,296.65	130.70	33.874		
13,700.00	7,730.00	15,134.00	7,566.57	100.65	139.08	87.42	1,824.04	4,001.23	4,526.67	4,396.22	130.45	34.701		
13,800.00	7,730.00	15,134.00	7,566.57	101.16	139.08	87.42	1,824.04	4,001.23	4,626.02	4,495.81	130.21	35.527		
13,900.00	7,730.00	15,134.00	7,566.57	101.71	139.08	87.42	1,824.04	4,001.23	4,725.40	4,595.41	129.99	36.353		
14,000.00	7,730.00	15,134.00	7,566.57	102.30	139.08	87.42	1,824.04	4,001.23	4,824.80	4,695.03	129.77	37.179		
14,100.00	7,730.00	15,134.00	7,566.57	102.93	139.08	87.42	1,824.04	4,001.23	4,924.23	4,794.66	129.57	38.005		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,134.00	7,566.57	103.60	139.08	87.42	1,824.04	4,001.23	5,023.68	4,894.30	129.38	38.830		
14,300.00	7,730.00	15,134.00	7,566.57	104.32	139.08	87.42	1,824.04	4,001.23	5,123.15	4,993.96	129.19	39.656		
14,400.00	7,730.00	15,134.00	7,566.57	105.07	139.08	87.42	1,824.04	4,001.23	5,222.64	5,093.63	129.02	40.481		
14,500.00	7,730.00	15,134.00	7,566.57	105.86	139.08	87.42	1,824.04	4,001.23	5,322.15	5,193.30	128.85	41.306		
14,600.00	7,730.00	15,134.00	7,566.57	106.70	139.08	87.42	1,824.04	4,001.23	5,421.68	5,292.99	128.69	42.130		
14,700.00	7,730.00	15,134.00	7,566.57	107.57	139.08	87.42	1,824.04	4,001.23	5,521.23	5,392.69	128.54	42.955		
14,800.00	7,730.00	15,134.00	7,566.57	108.48	139.08	87.42	1,824.04	4,001.23	5,620.79	5,492.40	128.39	43.779		
14,900.00	7,730.00	15,134.00	7,566.57	109.43	139.08	87.42	1,824.04	4,001.23	5,720.37	5,592.11	128.25	44.603		
15,000.00	7,730.00	15,134.00	7,566.57	110.42	139.08	87.42	1,824.04	4,001.23	5,819.96	5,691.84	128.12	45.426		
15,100.00	7,730.00	15,134.00	7,566.57	111.43	139.08	87.42	1,824.04	4,001.23	5,919.56	5,791.57	127.99	46.249		
15,200.00	7,730.00	15,134.00	7,566.57	112.49	139.08	87.42	1,824.04	4,001.23	6,019.18	5,891.31	127.87	47.072		
15,300.00	7,730.00	15,134.00	7,566.57	113.57	139.08	87.42	1,824.04	4,001.23	6,118.81	5,991.06	127.76	47.895		
15,400.00	7,730.00	15,134.00	7,566.57	114.68	139.08	87.42	1,824.04	4,001.23	6,218.46	6,090.81	127.64	48.717		
15,500.00	7,730.00	15,134.00	7,566.57	115.82	139.08	87.42	1,824.04	4,001.23	6,318.11	6,190.57	127.54	49.539		
15,600.00	7,730.00	15,134.00	7,566.57	116.99	139.08	87.42	1,824.04	4,001.23	6,417.78	6,290.34	127.44	50.361		
15,700.00	7,730.00	15,134.00	7,566.57	118.19	139.08	87.42	1,824.04	4,001.23	6,517.45	6,390.11	127.34	51.182		
15,800.00	7,730.00	15,134.00	7,566.57	119.41	139.08	87.42	1,824.04	4,001.23	6,617.14	6,489.89	127.25	52.003		
15,900.00	7,730.00	15,134.00	7,566.57	120.65	139.08	87.42	1,824.04	4,001.23	6,716.83	6,589.67	127.16	52.823		
16,000.00	7,730.00	15,134.00	7,566.57	121.91	139.08	87.42	1,824.04	4,001.23	6,816.53	6,689.46	127.07	53.643		
16,100.00	7,730.00	15,134.00	7,566.57	123.20	139.08	87.42	1,824.04	4,001.23	6,916.25	6,789.26	126.99	54.463		
16,200.00	7,730.00	15,134.00	7,566.57	124.50	139.08	87.42	1,824.04	4,001.23	7,015.97	6,889.05	126.91	55.283		
16,300.00	7,730.00	15,134.00	7,566.57	125.82	139.08	87.42	1,824.04	4,001.23	7,115.69	6,988.86	126.84	56.102		
16,400.00	7,730.00	15,134.00	7,566.57	127.16	139.08	87.42	1,824.04	4,001.23	7,215.43	7,088.67	126.76	56.920		
16,500.00	7,730.00	15,134.00	7,566.57	128.52	139.08	87.42	1,824.04	4,001.23	7,315.17	7,188.48	126.69	57.739		
16,600.00	7,730.00	15,134.00	7,566.57	129.89	139.08	87.42	1,824.04	4,001.23	7,414.92	7,288.29	126.63	58.557		
16,700.00	7,730.00	15,134.00	7,566.57	131.27	139.08	87.42	1,824.04	4,001.23	7,514.68	7,388.11	126.56	59.374		
16,800.00	7,730.00	15,134.00	7,566.57	132.67	139.08	87.42	1,824.04	4,001.23	7,614.44	7,487.94	126.50	60.191		
16,900.00	7,730.00	15,134.00	7,566.57	134.09	139.08	87.42	1,824.04	4,001.23	7,714.21	7,587.76	126.45	61.008		
17,000.00	7,730.00	15,134.00	7,566.57	135.51	139.08	87.42	1,824.04	4,001.23	7,813.98	7,687.59	126.39	61.824		
17,100.00	7,730.00	15,134.00	7,566.57	136.95	139.08	87.42	1,824.04	4,001.23	7,913.76	7,787.43	126.34	62.640		
17,200.00	7,730.00	15,134.00	7,566.57	138.40	139.08	87.42	1,824.04	4,001.23	8,013.55	7,887.26	126.29	63.455		
17,300.00	7,730.00	15,134.00	7,566.57	139.85	139.08	87.42	1,824.04	4,001.23	8,113.34	7,987.10	126.24	64.270		
17,400.00	7,730.00	15,134.00	7,566.57	141.32	139.08	87.42	1,824.04	4,001.23	8,213.14	8,086.95	126.19	65.085		
17,500.00	7,730.00	15,134.00	7,566.57	142.80	139.08	87.42	1,824.04	4,001.23	8,312.94	8,186.79	126.15	65.899		
17,600.00	7,730.00	15,134.00	7,566.57	144.28	139.08	87.42	1,824.04	4,001.23	8,412.74	8,286.64	126.10	66.713		
17,700.00	7,730.00	15,134.00	7,566.57	145.78	139.08	87.42	1,824.04	4,001.23	8,512.56	8,386.49	126.06	67.526		
17,800.00	7,730.00	15,134.00	7,566.57	147.28	139.08	87.42	1,824.04	4,001.23	8,612.37	8,486.35	126.02	68.339		
17,900.00	7,730.00	15,134.00	7,566.57	148.79	139.08	87.42	1,824.04	4,001.23	8,712.19	8,586.20	125.99	69.151		
18,000.00	7,730.00	15,134.00	7,566.57	150.31	139.08	87.42	1,824.04	4,001.23	8,812.01	8,686.06	125.95	69.963		
18,100.00	7,730.00	15,134.00	7,566.57	151.83	139.08	87.42	1,824.04	4,001.23	8,911.84	8,785.92	125.92	70.775		
18,200.00	7,730.00	15,134.00	7,566.57	153.37	139.08	87.42	1,824.04	4,001.23	9,011.67	8,885.78	125.89	71.586		
18,300.00	7,730.00	15,134.00	7,566.57	154.90	139.08	87.42	1,824.04	4,001.23	9,111.50	8,985.65	125.86	72.396		
18,400.00	7,730.00	15,134.00	7,566.57	156.45	139.08	87.42	1,824.04	4,001.23	9,211.34	9,085.52	125.83	73.206		
18,500.00	7,730.00	15,134.00	7,566.57	158.00	139.08	87.42	1,824.04	4,001.23	9,311.18	9,185.38	125.80	74.016		
18,600.00	7,730.00	15,134.00	7,566.57	159.55	139.08	87.42	1,824.04	4,001.23	9,411.03	9,285.26	125.77	74.825		
18,700.00	7,730.00	15,134.00	7,566.57	161.11	139.08	87.42	1,824.04	4,001.23	9,510.88	9,385.13	125.75	75.633		
18,800.00	7,730.00	15,134.00	7,566.57	162.68	139.08	87.42	1,824.04	4,001.23	9,610.73	9,485.00	125.73	76.441		
18,900.00	7,730.00	15,134.00	7,566.57	164.25	139.08	87.42	1,824.04	4,001.23	9,710.58	9,584.88	125.71	77.249		
19,000.00	7,730.00	15,134.00	7,566.57	165.83	139.08	87.42	1,824.04	4,001.23	9,810.44	9,684.76	125.69	78.056		
19,100.00	7,730.00	15,134.00	7,566.57	167.41	139.08	87.42	1,824.04	4,001.23	9,910.30	9,784.64	125.67	78.862		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	15,352.00	7,829.29	0.00	138.31	71.29	1,855.89	5,480.05	9,834.34					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.29	1,855.89	5,480.05	9,753.65	9,659.56	94.10	103.655		
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.29	1,855.89	5,480.05	9,673.33	9,578.79	94.54	102.321		
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.29	1,855.89	5,480.05	9,593.38	9,498.36	95.02	100.965		
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.29	1,855.89	5,480.05	9,513.80	9,418.27	95.53	99.591		
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.29	1,855.89	5,480.05	9,434.61	9,338.54	96.07	98.202		
600.00	599.98	15,352.00	7,829.29	1.92	138.31	6.22	1,855.89	5,480.05	9,354.77	9,258.11	96.65	96.785		
700.00	699.84	15,352.00	7,829.29	2.28	138.31	6.53	1,855.89	5,480.05	9,273.25	9,175.99	97.25	95.351		
800.00	799.45	15,352.00	7,829.29	2.64	138.31	6.88	1,855.89	5,480.05	9,190.10	9,092.26	97.85	93.924		
900.00	898.70	15,352.00	7,829.29	3.02	138.31	7.28	1,855.89	5,480.05	9,105.40	9,006.97	98.43	92.508		
1,000.00	997.47	15,352.00	7,829.29	3.41	138.31	7.72	1,855.89	5,480.05	9,019.19	8,920.20	99.00	91.104		
1,100.00	1,095.62	15,352.00	7,829.29	3.84	138.31	8.22	1,855.89	5,480.05	8,931.55	8,831.99	99.55	89.715		
1,200.00	1,193.06	15,352.00	7,829.29	4.29	138.31	8.80	1,855.89	5,480.05	8,842.53	8,742.44	100.09	88.342		
1,300.00	1,289.64	15,352.00	7,829.29	4.78	138.31	9.47	1,855.89	5,480.05	8,752.21	8,651.59	100.62	86.986		
1,400.00	1,385.27	15,352.00	7,829.29	5.32	138.31	10.25	1,855.89	5,480.05	8,660.66	8,559.54	101.12	85.648		
1,500.00	1,479.82	15,352.00	7,829.29	5.90	138.31	11.17	1,855.89	5,480.05	8,567.94	8,466.34	101.60	84.329		
1,600.00	1,573.17	15,352.00	7,829.29	6.53	138.31	12.27	1,855.89	5,480.05	8,474.14	8,372.08	102.06	83.029		
1,700.00	1,665.21	15,352.00	7,829.29	7.23	138.31	13.61	1,855.89	5,480.05	8,379.34	8,276.84	102.50	81.750		
1,800.00	1,755.84	15,352.00	7,829.29	7.98	138.31	15.25	1,855.89	5,480.05	8,283.62	8,180.71	102.91	80.493		
1,900.00	1,844.94	15,352.00	7,829.29	8.80	138.31	17.34	1,855.89	5,480.05	8,187.07	8,083.77	103.30	79.258		
2,000.00	1,932.39	15,352.00	7,829.29	9.68	138.31	20.04	1,855.89	5,480.05	8,089.77	7,986.11	103.65	78.045		
2,100.00	2,018.11	15,352.00	7,829.29	10.63	138.31	23.66	1,855.89	5,480.05	7,991.82	7,887.83	103.98	76.856		
2,200.00	2,101.97	15,352.00	7,829.29	11.65	138.31	28.70	1,855.89	5,480.05	7,893.31	7,789.03	104.28	75.692		
2,300.00	2,183.88	15,352.00	7,829.29	12.74	138.31	36.05	1,855.89	5,480.05	7,794.36	7,689.81	104.55	74.553		
2,400.00	2,263.74	15,352.00	7,829.29	13.90	138.31	47.22	1,855.89	5,480.05	7,695.06	7,590.28	104.78	73.440		
2,431.61	2,288.54	15,352.00	7,829.29	14.29	138.31	51.88	1,855.89	5,480.05	7,663.62	7,558.77	104.85	73.093		
2,500.00	2,341.97	15,352.00	7,829.29	15.13	138.31	51.88	1,855.89	5,480.05	7,595.57	7,490.58	104.99	72.347		
2,600.00	2,420.08	15,352.00	7,829.29	16.37	138.31	51.88	1,855.89	5,480.05	7,496.08	7,390.88	105.20	71.256		
2,700.00	2,498.20	15,352.00	7,829.29	17.63	138.31	51.88	1,855.89	5,480.05	7,396.60	7,291.18	105.42	70.164		
2,800.00	2,576.32	15,352.00	7,829.29	18.89	138.31	51.88	1,855.89	5,480.05	7,297.14	7,191.49	105.65	69.071		
2,900.00	2,654.43	15,352.00	7,829.29	20.17	138.31	51.88	1,855.89	5,480.05	7,197.69	7,091.81	105.88	67.978		
3,000.00	2,732.55	15,352.00	7,829.29	21.45	138.31	51.88	1,855.89	5,480.05	7,098.26	6,992.14	106.13	66.885		
3,100.00	2,810.67	15,352.00	7,829.29	22.74	138.31	51.88	1,855.89	5,480.05	6,998.85	6,892.47	106.38	65.791		
3,200.00	2,888.78	15,352.00	7,829.29	24.03	138.31	51.88	1,855.89	5,480.05	6,899.45	6,792.81	106.64	64.698		
3,300.00	2,966.90	15,352.00	7,829.29	25.33	138.31	51.88	1,855.89	5,480.05	6,800.07	6,693.15	106.91	63.604		
3,400.00	3,045.02	15,352.00	7,829.29	26.63	138.31	51.88	1,855.89	5,480.05	6,700.70	6,593.51	107.19	62.511		
3,500.00	3,123.13	15,352.00	7,829.29	27.94	138.31	51.88	1,855.89	5,480.05	6,601.36	6,493.88	107.48	61.418		
3,600.00	3,201.25	15,352.00	7,829.29	29.24	138.31	51.88	1,855.89	5,480.05	6,502.04	6,394.26	107.78	60.326		
3,700.00	3,279.37	15,352.00	7,829.29	30.55	138.31	51.88	1,855.89	5,480.05	6,402.74	6,294.64	108.09	59.235		
3,800.00	3,357.49	15,352.00	7,829.29	31.86	138.31	51.88	1,855.89	5,480.05	6,303.46	6,195.05	108.41	58.144		
3,900.00	3,435.60	15,352.00	7,829.29	33.18	138.31	51.88	1,855.89	5,480.05	6,204.20	6,095.46	108.74	57.055		
4,000.00	3,513.72	15,352.00	7,829.29	34.49	138.31	51.88	1,855.89	5,480.05	6,104.97	5,995.88	109.08	55.966		
4,100.00	3,591.84	15,352.00	7,829.29	35.81	138.31	51.88	1,855.89	5,480.05	6,005.76	5,896.32	109.44	54.879		
4,200.00	3,669.95	15,352.00	7,829.29	37.12	138.31	51.88	1,855.89	5,480.05	5,906.58	5,796.78	109.80	53.793		
4,300.00	3,748.07	15,352.00	7,829.29	38.44	138.31	51.88	1,855.89	5,480.05	5,807.43	5,697.25	110.18	52.709		
4,400.00	3,826.19	15,352.00	7,829.29	39.76	138.31	51.88	1,855.89	5,480.05	5,708.30	5,597.73	110.57	51.627		
4,500.00	3,904.30	15,352.00	7,829.29	41.08	138.31	51.88	1,855.89	5,480.05	5,609.21	5,498.24	110.97	50.546		
4,600.00	3,982.42	15,352.00	7,829.29	42.40	138.31	51.88	1,855.89	5,480.05	5,510.15	5,398.76	111.39	49.467		
4,700.00	4,060.54	15,352.00	7,829.29	43.72	138.31	51.88	1,855.89	5,480.05	5,411.13	5,299.31	111.82	48.390		
4,800.00	4,138.66	15,352.00	7,829.29	45.05	138.31	51.88	1,855.89	5,480.05	5,312.14	5,199.87	112.27	47.316		
4,900.00	4,216.77	15,352.00	7,829.29	46.37	138.31	51.88	1,855.89	5,480.05	5,213.19	5,100.46	112.73	46.243		
5,000.00	4,294.89	15,352.00	7,829.29	47.69	138.31	51.88	1,855.89	5,480.05	5,114.28	5,001.07	113.21	45.174		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	15,352.00	7,829.29	49.02	138.31	51.88	1,855.89	5,480.05	5,015.42	4,901.71	113.71	44.106		
5,200.00	4,451.12	15,352.00	7,829.29	50.34	138.31	51.88	1,855.89	5,480.05	4,916.60	4,802.37	114.23	43.042		
5,300.00	4,529.24	15,352.00	7,829.29	51.67	138.31	51.88	1,855.89	5,480.05	4,817.83	4,703.07	114.77	41.980		
5,400.00	4,607.36	15,352.00	7,829.29	52.99	138.31	51.88	1,855.89	5,480.05	4,719.11	4,603.79	115.32	40.921		
5,500.00	4,685.47	15,352.00	7,829.29	54.32	138.31	51.88	1,855.89	5,480.05	4,620.45	4,504.55	115.90	39.865		
5,600.00	4,763.59	15,352.00	7,829.29	55.64	138.31	51.88	1,855.89	5,480.05	4,521.85	4,405.34	116.50	38.813		
5,700.00	4,841.71	15,352.00	7,829.29	56.97	138.31	51.88	1,855.89	5,480.05	4,423.30	4,306.17	117.13	37.764		
5,800.00	4,919.83	15,352.00	7,829.29	58.30	138.31	51.88	1,855.89	5,480.05	4,324.83	4,207.04	117.78	36.718		
5,900.00	4,997.94	15,352.00	7,829.29	59.62	138.31	51.88	1,855.89	5,480.05	4,226.43	4,107.96	118.47	35.676		
6,000.00	5,076.06	15,352.00	7,829.29	60.95	138.31	51.88	1,855.89	5,480.05	4,128.10	4,008.92	119.18	34.638		
6,100.00	5,154.18	15,352.00	7,829.29	62.28	138.31	51.88	1,855.89	5,480.05	4,029.85	3,909.94	119.92	33.605		
6,200.00	5,232.29	15,352.00	7,829.29	63.61	138.31	51.88	1,855.89	5,480.05	3,931.70	3,811.00	120.70	32.575		
6,300.00	5,310.41	15,352.00	7,829.29	64.93	138.31	51.88	1,855.89	5,480.05	3,833.64	3,712.13	121.51	31.550		
6,400.00	5,388.53	15,352.00	7,829.29	66.26	138.31	51.88	1,855.89	5,480.05	3,735.68	3,613.32	122.36	30.530		
6,500.00	5,466.64	15,352.00	7,829.29	67.59	138.31	51.88	1,855.89	5,480.05	3,637.84	3,514.58	123.25	29.515		
6,600.00	5,544.76	15,352.00	7,829.29	68.92	138.31	51.88	1,855.89	5,480.05	3,540.11	3,415.92	124.19	28.505		
6,700.00	5,622.88	15,352.00	7,829.29	70.25	138.31	51.88	1,855.89	5,480.05	3,442.51	3,317.33	125.18	27.501		
6,800.00	5,701.00	15,352.00	7,829.29	71.58	138.31	51.88	1,855.89	5,480.05	3,345.06	3,218.84	126.22	26.502		
6,900.00	5,779.11	15,352.00	7,829.29	72.91	138.31	51.88	1,855.89	5,480.05	3,247.76	3,120.45	127.32	25.509		
7,000.00	5,857.23	15,352.00	7,829.29	74.23	138.31	51.88	1,855.89	5,480.05	3,150.63	3,022.16	128.47	24.523		
7,100.00	5,935.35	15,352.00	7,829.29	75.56	138.31	51.88	1,855.89	5,480.05	3,053.69	2,923.99	129.70	23.544		
7,200.00	6,013.46	15,352.00	7,829.29	76.89	138.31	51.88	1,855.89	5,480.05	2,956.95	2,825.95	131.00	22.572		
7,300.00	6,091.58	15,352.00	7,829.29	78.22	138.31	51.88	1,855.89	5,480.05	2,860.43	2,728.06	132.38	21.608		
7,400.00	6,169.70	15,352.00	7,829.29	79.55	138.31	51.88	1,855.89	5,480.05	2,764.17	2,630.33	133.84	20.653		
7,500.00	6,247.81	15,352.00	7,829.29	80.88	138.31	51.88	1,855.89	5,480.05	2,668.17	2,532.77	135.40	19.706		
7,600.00	6,325.93	15,352.00	7,829.29	82.21	138.31	51.88	1,855.89	5,480.05	2,572.48	2,435.42	137.06	18.769		
7,700.00	6,404.05	15,352.00	7,829.29	83.54	138.31	51.88	1,855.89	5,480.05	2,477.14	2,338.29	138.84	17.842		
7,800.00	6,482.17	15,352.00	7,829.29	84.87	138.31	51.88	1,855.89	5,480.05	2,382.17	2,241.42	140.74	16.926		
7,900.00	6,560.28	15,352.00	7,829.29	86.20	138.31	51.88	1,855.89	5,480.05	2,287.63	2,144.85	142.79	16.021		
8,000.00	6,638.40	15,352.00	7,829.29	87.53	138.31	51.88	1,855.89	5,480.05	2,193.58	2,048.60	144.98	15.130		
8,100.00	6,716.52	15,352.00	7,829.29	88.86	138.31	51.88	1,855.89	5,480.05	2,100.08	1,952.73	147.34	14.253		
8,200.00	6,794.63	15,352.00	7,829.29	90.20	138.31	51.88	1,855.89	5,480.05	2,007.20	1,857.31	149.89	13.391		
8,300.00	6,872.75	15,352.00	7,829.29	91.53	138.31	51.88	1,855.89	5,480.05	1,915.04	1,762.39	152.65	12.546		
8,400.00	6,950.87	15,352.00	7,829.29	92.86	138.31	51.88	1,855.89	5,480.05	1,823.71	1,668.08	155.63	11.718		
8,500.00	7,028.98	15,346.85	7,829.18	94.19	138.22	51.56	1,861.04	5,480.05	1,733.32	1,574.76	158.57	10.931		
8,600.00	7,107.10	15,322.51	7,828.64	95.52	137.80	50.01	1,885.37	5,480.07	1,643.80	1,483.17	160.63	10.233		
8,647.91	7,144.53	15,310.85	7,828.38	96.16	137.59	49.25	1,897.03	5,480.08	1,601.23	1,439.54	161.69	9.903		
8,650.00	7,146.16	15,310.35	7,828.37	96.18	137.58	48.62	1,897.53	5,480.08	1,599.37	1,437.64	161.73	9.889		
8,700.00	7,185.66	15,300.49	7,828.15	96.84	137.41	32.68	1,907.39	5,480.08	1,554.71	1,391.82	162.89	9.544		
8,750.00	7,225.78	15,301.06	7,828.03	97.47	137.42	15.58	1,912.94	5,480.09	1,509.69	1,345.48	164.21	9.194		
8,800.00	7,266.21	15,302.26	7,828.00	98.08	137.44	-1.67	1,914.14	5,480.09	1,464.69	1,299.16	165.53	8.848		
8,850.00	7,306.63	15,299.10	7,828.07	98.64	137.39	-18.06	1,910.98	5,480.09	1,420.08	1,253.31	166.77	8.515		
8,900.00	7,346.75	15,304.39	7,828.24	99.17	137.48	-32.88	1,903.49	5,480.08	1,376.21	1,208.11	168.11	8.187		
8,950.00	7,386.25	15,316.16	7,828.50	99.64	137.69	-45.81	1,891.72	5,480.07	1,333.45	1,163.94	169.51	7.866		
9,000.00	7,424.84	15,332.12	7,828.85	100.06	137.96	-56.83	1,875.77	5,480.06	1,292.13	1,121.19	170.94	7.559		
9,050.00	7,462.22	15,352.15	7,829.29	100.42	138.31	-66.09	1,855.74	5,480.05	1,252.55	1,080.18	172.37	7.266		
9,100.00	7,498.11	15,352.00	7,829.29	100.74	138.31	-74.86	1,855.89	5,480.05	1,215.26	1,043.25	172.01	7.065		
9,150.00	7,532.24	15,352.00	7,829.29	100.99	138.31	-82.13	1,855.89	5,480.05	1,180.93	1,009.65	171.28	6.895		
9,200.00	7,564.34	15,352.00	7,829.29	101.19	138.31	-88.11	1,855.89	5,480.05	1,150.10	979.94	170.16	6.759		
9,250.00	7,594.17	15,352.00	7,829.29	101.34	138.31	-92.97	1,855.89	5,480.05	1,123.30	954.60	168.69	6.659		
9,300.00	7,621.50	15,352.00	7,829.29	101.45	138.31	-96.88	1,855.89	5,480.05	1,101.03	934.08	166.95	6.595		
9,350.00	7,646.13	15,352.00	7,829.29	101.50	138.31	-99.96	1,855.89	5,480.05	1,083.75	918.70	165.05	6.566 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	15,352.00	7,829.29	101.51	138.31	-102.29	1,855.89	5,480.05	1,071.84	908.70	163.14	6.570		
9,450.00	7,686.55	15,352.00	7,829.29	101.48	138.31	-103.96	1,855.89	5,480.05	1,065.56	904.17	161.39	6.602		
9,479.26	7,696.01	15,352.00	7,829.29	101.45	138.31	-104.64	1,855.89	5,480.05	1,064.57	904.07	160.50	6.633 CC, ES		
9,500.00	7,702.04	15,352.00	7,829.29	101.42	138.31	-104.99	1,855.89	5,480.05	1,065.07	905.14	159.93	6.660		
9,550.00	7,714.20	15,352.00	7,829.29	101.33	138.31	-105.43	1,855.89	5,480.05	1,070.37	911.55	158.82	6.740		
9,600.00	7,722.96	15,352.00	7,829.29	101.20	138.31	-105.27	1,855.89	5,480.05	1,081.34	923.30	158.03	6.842		
9,650.00	7,728.24	15,352.00	7,829.29	101.06	138.31	-104.49	1,855.89	5,480.05	1,097.73	940.23	157.50	6.970		
9,699.97	7,730.00	15,352.00	7,829.29	100.90	138.31	-103.06	1,855.89	5,480.05	1,119.16	962.05	157.11	7.123		
9,800.00	7,730.00	15,352.00	7,829.29	100.56	138.31	-103.06	1,855.89	5,480.05	1,170.15	1,013.48	156.67	7.469		
9,900.00	7,730.00	15,352.00	7,829.29	100.24	138.31	-103.06	1,855.89	5,480.05	1,227.17	1,070.71	156.46	7.843		
10,000.00	7,730.00	15,352.00	7,829.29	99.93	138.31	-103.06	1,855.89	5,480.05	1,289.43	1,133.21	156.22	8.254		
10,100.00	7,730.00	15,352.00	7,829.29	99.64	138.31	-103.06	1,855.89	5,480.05	1,356.22	1,200.35	155.87	8.701		
10,200.00	7,730.00	15,352.00	7,829.29	99.36	138.31	-103.06	1,855.89	5,480.05	1,426.89	1,271.51	155.38	9.183		
10,300.00	7,730.00	15,352.00	7,829.29	99.09	138.31	-103.06	1,855.89	5,480.05	1,500.90	1,346.13	154.78	9.697		
10,400.00	7,730.00	15,352.00	7,829.29	98.84	138.31	-103.06	1,855.89	5,480.05	1,577.79	1,423.70	154.09	10.240		
10,500.00	7,730.00	15,352.00	7,829.29	98.61	138.31	-103.06	1,855.89	5,480.05	1,657.14	1,503.80	153.34	10.807		
10,600.00	7,730.00	15,352.00	7,829.29	98.39	138.31	-103.06	1,855.89	5,480.05	1,738.62	1,586.06	152.55	11.397		
10,700.00	7,730.00	15,352.00	7,829.29	98.18	138.31	-103.06	1,855.89	5,480.05	1,821.95	1,670.19	151.76	12.006		
10,800.00	7,730.00	15,352.00	7,829.29	97.99	138.31	-103.06	1,855.89	5,480.05	1,906.88	1,755.92	150.96	12.632		
10,900.00	7,730.00	15,352.00	7,829.29	97.81	138.31	-103.06	1,855.89	5,480.05	1,993.21	1,843.03	150.18	13.272		
11,000.00	7,730.00	15,352.00	7,829.29	97.64	138.31	-103.06	1,855.89	5,480.05	2,080.76	1,931.35	149.42	13.926		
11,100.00	7,730.00	15,352.00	7,829.29	97.50	138.31	-103.06	1,855.89	5,480.05	2,169.39	2,020.71	148.68	14.591		
11,200.00	7,730.00	15,352.00	7,829.29	97.36	138.31	-103.06	1,855.89	5,480.05	2,258.97	2,110.99	147.98	15.265		
11,300.00	7,730.00	15,352.00	7,829.29	97.24	138.31	-103.06	1,855.89	5,480.05	2,349.39	2,202.09	147.31	15.949		
11,400.00	7,730.00	15,352.00	7,829.29	97.14	138.31	-103.06	1,855.89	5,480.05	2,440.56	2,293.89	146.67	16.640		
11,500.00	7,730.00	15,352.00	7,829.29	97.06	138.31	-103.06	1,855.89	5,480.05	2,532.40	2,386.33	146.07	17.337		
11,600.00	7,730.00	15,352.00	7,829.29	96.98	138.31	-103.06	1,855.89	5,480.05	2,624.83	2,479.33	145.50	18.040		
11,700.00	7,730.00	15,352.00	7,829.29	96.93	138.31	-103.06	1,855.89	5,480.05	2,717.80	2,572.84	144.96	18.748		
11,800.00	7,730.00	15,352.00	7,829.29	96.90	138.31	-103.06	1,855.89	5,480.05	2,811.25	2,666.79	144.46	19.461		
11,900.00	7,730.00	15,352.00	7,829.29	96.88	138.31	-103.06	1,855.89	5,480.05	2,905.14	2,761.15	143.98	20.177		
12,000.00	7,730.00	15,352.00	7,829.29	96.88	138.31	-103.06	1,855.89	5,480.05	2,999.42	2,855.88	143.54	20.897		
12,100.00	7,730.00	15,352.00	7,829.29	96.90	138.31	-103.06	1,855.89	5,480.05	3,094.06	2,950.94	143.12	21.619		
12,200.00	7,730.00	15,352.00	7,829.29	96.94	138.31	-103.06	1,855.89	5,480.05	3,189.03	3,046.30	142.72	22.344		
12,300.00	7,730.00	15,352.00	7,829.29	97.00	138.31	-103.06	1,855.89	5,480.05	3,284.29	3,141.94	142.36	23.071		
12,400.00	7,730.00	15,352.00	7,829.29	97.08	138.31	-103.06	1,855.89	5,480.05	3,379.84	3,237.83	142.01	23.800		
12,500.00	7,730.00	15,352.00	7,829.29	97.18	138.31	-103.06	1,855.89	5,480.05	3,475.63	3,333.94	141.69	24.530		
12,600.00	7,730.00	15,352.00	7,829.29	97.31	138.31	-103.06	1,855.89	5,480.05	3,571.65	3,430.27	141.38	25.262		
12,700.00	7,730.00	15,352.00	7,829.29	97.46	138.31	-103.06	1,855.89	5,480.05	3,667.88	3,526.78	141.10	25.995		
12,800.00	7,730.00	15,352.00	7,829.29	97.64	138.31	-103.06	1,855.89	5,480.05	3,764.31	3,623.48	140.83	26.729		
12,900.00	7,730.00	15,352.00	7,829.29	97.85	138.31	-103.06	1,855.89	5,480.05	3,860.93	3,720.34	140.58	27.464		
13,000.00	7,730.00	15,352.00	7,829.29	98.09	138.31	-103.06	1,855.89	5,480.05	3,957.71	3,817.36	140.35	28.199		
13,100.00	7,730.00	15,352.00	7,829.29	98.35	138.31	-103.06	1,855.89	5,480.05	4,054.64	3,914.51	140.13	28.935		
13,200.00	7,730.00	15,352.00	7,829.29	98.65	138.31	-103.06	1,855.89	5,480.05	4,151.73	4,011.80	139.93	29.671		
13,300.00	7,730.00	15,352.00	7,829.29	98.98	138.31	-103.06	1,855.89	5,480.05	4,248.94	4,109.21	139.73	30.407		
13,400.00	7,730.00	15,352.00	7,829.29	99.34	138.31	-103.06	1,855.89	5,480.05	4,346.29	4,206.73	139.55	31.144		
13,500.00	7,730.00	15,352.00	7,829.29	99.74	138.31	-103.06	1,855.89	5,480.05	4,443.75	4,304.36	139.39	31.881		
13,600.00	7,730.00	15,352.00	7,829.29	100.17	138.31	-103.06	1,855.89	5,480.05	4,541.32	4,402.09	139.23	32.618		
13,700.00	7,730.00	15,352.00	7,829.29	100.65	138.31	-103.06	1,855.89	5,480.05	4,639.00	4,499.92	139.08	33.354		
13,800.00	7,730.00	15,352.00	7,829.29	101.16	138.31	-103.06	1,855.89	5,480.05	4,736.77	4,597.83	138.94	34.091		
13,900.00	7,730.00	15,352.00	7,829.29	101.71	138.31	-103.06	1,855.89	5,480.05	4,834.64	4,695.82	138.81	34.828		
14,000.00	7,730.00	15,352.00	7,829.29	102.30	138.31	-103.06	1,855.89	5,480.05	4,932.58	4,793.89	138.69	35.564		
14,100.00	7,730.00	15,352.00	7,829.29	102.93	138.31	-103.06	1,855.89	5,480.05	5,030.61	4,892.03	138.58	36.301		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 16-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	15,352.00	7,829.29	103.60	138.31	-103.06	1,855.89	5,480.05	5,128.72	4,990.25	138.48	37.037		
14,300.00	7,730.00	15,352.00	7,829.29	104.32	138.31	-103.06	1,855.89	5,480.05	5,226.90	5,088.52	138.38	37.773		
14,400.00	7,730.00	15,352.00	7,829.29	105.07	138.31	-103.06	1,855.89	5,480.05	5,325.14	5,186.86	138.29	38.508		
14,500.00	7,730.00	15,352.00	7,829.29	105.86	138.31	-103.06	1,855.89	5,480.05	5,423.45	5,285.26	138.20	39.244		
14,600.00	7,730.00	15,352.00	7,829.29	106.70	138.31	-103.06	1,855.89	5,480.05	5,521.83	5,383.71	138.12	39.979		
14,700.00	7,730.00	15,352.00	7,829.29	107.57	138.31	-103.06	1,855.89	5,480.05	5,620.25	5,482.21	138.04	40.713		
14,800.00	7,730.00	15,352.00	7,829.29	108.48	138.31	-103.06	1,855.89	5,480.05	5,718.74	5,580.76	137.97	41.448		
14,900.00	7,730.00	15,352.00	7,829.29	109.43	138.31	-103.06	1,855.89	5,480.05	5,817.27	5,679.36	137.91	42.182		
15,000.00	7,730.00	15,352.00	7,829.29	110.42	138.31	-103.06	1,855.89	5,480.05	5,915.85	5,778.00	137.85	42.915		
15,100.00	7,730.00	15,352.00	7,829.29	111.43	138.31	-103.06	1,855.89	5,480.05	6,014.48	5,876.69	137.79	43.648		
15,200.00	7,730.00	15,352.00	7,829.29	112.49	138.31	-103.06	1,855.89	5,480.05	6,113.16	5,975.42	137.74	44.381		
15,300.00	7,730.00	15,352.00	7,829.29	113.57	138.31	-103.06	1,855.89	5,480.05	6,211.88	6,074.18	137.69	45.113		
15,400.00	7,730.00	15,352.00	7,829.29	114.68	138.31	-103.06	1,855.89	5,480.05	6,310.63	6,172.98	137.65	45.845		
15,500.00	7,730.00	15,352.00	7,829.29	115.82	138.31	-103.06	1,855.89	5,480.05	6,409.43	6,271.82	137.61	46.577		
15,600.00	7,730.00	15,352.00	7,829.29	116.99	138.31	-103.06	1,855.89	5,480.05	6,508.26	6,370.69	137.57	47.308		
15,700.00	7,730.00	15,352.00	7,829.29	118.19	138.31	-103.06	1,855.89	5,480.05	6,607.13	6,469.59	137.54	48.039		
15,800.00	7,730.00	15,352.00	7,829.29	119.41	138.31	-103.06	1,855.89	5,480.05	6,706.03	6,568.53	137.51	48.769		
15,900.00	7,730.00	15,352.00	7,829.29	120.65	138.31	-103.06	1,855.89	5,480.05	6,804.97	6,667.49	137.48	49.499		
16,000.00	7,730.00	15,352.00	7,829.29	121.91	138.31	-103.06	1,855.89	5,480.05	6,903.93	6,766.48	137.45	50.228		
16,100.00	7,730.00	15,352.00	7,829.29	123.20	138.31	-103.06	1,855.89	5,480.05	7,002.93	6,865.50	137.43	50.957		
16,200.00	7,730.00	15,352.00	7,829.29	124.50	138.31	-103.06	1,855.89	5,480.05	7,101.95	6,964.54	137.41	51.685		
16,300.00	7,730.00	15,352.00	7,829.29	125.82	138.31	-103.06	1,855.89	5,480.05	7,201.00	7,063.61	137.39	52.413		
16,400.00	7,730.00	15,352.00	7,829.29	127.16	138.31	-103.06	1,855.89	5,480.05	7,300.07	7,162.70	137.37	53.141		
16,500.00	7,730.00	15,352.00	7,829.29	128.52	138.31	-103.06	1,855.89	5,480.05	7,399.17	7,261.81	137.36	53.868		
16,600.00	7,730.00	15,352.00	7,829.29	129.89	138.31	-103.06	1,855.89	5,480.05	7,498.30	7,360.95	137.34	54.595		
16,700.00	7,730.00	15,352.00	7,829.29	131.27	138.31	-103.06	1,855.89	5,480.05	7,597.44	7,460.11	137.33	55.321		
16,800.00	7,730.00	15,352.00	7,829.29	132.67	138.31	-103.06	1,855.89	5,480.05	7,696.61	7,559.29	137.32	56.047		
16,900.00	7,730.00	15,352.00	7,829.29	134.09	138.31	-103.06	1,855.89	5,480.05	7,795.80	7,658.48	137.32	56.772		
17,000.00	7,730.00	15,352.00	7,829.29	135.51	138.31	-103.06	1,855.89	5,480.05	7,895.01	7,757.70	137.31	57.497		
17,100.00	7,730.00	15,352.00	7,829.29	136.95	138.31	-103.06	1,855.89	5,480.05	7,994.24	7,856.93	137.31	58.221		
17,200.00	7,730.00	15,352.00	7,829.29	138.40	138.31	-103.06	1,855.89	5,480.05	8,093.49	7,956.19	137.30	58.945		
17,300.00	7,730.00	15,352.00	7,829.29	139.85	138.31	-103.06	1,855.89	5,480.05	8,192.76	8,055.46	137.30	59.669		
17,400.00	7,730.00	15,352.00	7,829.29	141.32	138.31	-103.06	1,855.89	5,480.05	8,292.04	8,154.74	137.30	60.392		
17,500.00	7,730.00	15,352.00	7,829.29	142.80	138.31	-103.06	1,855.89	5,480.05	8,391.35	8,254.04	137.31	61.115		
17,600.00	7,730.00	15,352.00	7,829.29	144.28	138.31	-103.06	1,855.89	5,480.05	8,490.66	8,353.36	137.31	61.837		
17,700.00	7,730.00	15,352.00	7,829.29	145.78	138.31	-103.06	1,855.89	5,480.05	8,590.00	8,452.69	137.31	62.558		
17,800.00	7,730.00	15,352.00	7,829.29	147.28	138.31	-103.06	1,855.89	5,480.05	8,689.35	8,552.03	137.32	63.280		
17,900.00	7,730.00	15,352.00	7,829.29	148.79	138.31	-103.06	1,855.89	5,480.05	8,788.71	8,651.39	137.32	64.001		
18,000.00	7,730.00	15,352.00	7,829.29	150.31	138.31	-103.06	1,855.89	5,480.05	8,888.09	8,750.76	137.33	64.721		
18,100.00	7,730.00	15,352.00	7,829.29	151.83	138.31	-103.06	1,855.89	5,480.05	8,987.48	8,850.14	137.34	65.441		
18,200.00	7,730.00	15,352.00	7,829.29	153.37	138.31	-103.06	1,855.89	5,480.05	9,086.89	8,949.54	137.35	66.160		
18,300.00	7,730.00	15,352.00	7,829.29	154.90	138.31	-103.06	1,855.89	5,480.05	9,186.31	9,048.95	137.36	66.879		
18,400.00	7,730.00	15,352.00	7,829.29	156.45	138.31	-103.06	1,855.89	5,480.05	9,285.74	9,148.37	137.37	67.598		
18,500.00	7,730.00	15,352.00	7,829.29	158.00	138.31	-103.06	1,855.89	5,480.05	9,385.18	9,247.80	137.38	68.316		
18,600.00	7,730.00	15,352.00	7,829.29	159.55	138.31	-103.06	1,855.89	5,480.05	9,484.64	9,347.24	137.39	69.033		
18,700.00	7,730.00	15,352.00	7,829.29	161.11	138.31	-103.06	1,855.89	5,480.05	9,584.10	9,446.70	137.41	69.750		
18,800.00	7,730.00	15,352.00	7,829.29	162.68	138.31	-103.06	1,855.89	5,480.05	9,683.58	9,546.16	137.42	70.467		
18,900.00	7,730.00	15,352.00	7,829.29	164.25	138.31	-103.06	1,855.89	5,480.05	9,783.07	9,645.63	137.43	71.183		
19,000.00	7,730.00	15,352.00	7,829.29	165.83	138.31	-103.06	1,855.89	5,480.05	9,882.57	9,745.11	137.45	71.899		
19,100.00	7,730.00	15,352.00	7,829.29	167.41	138.31	-103.06	1,855.89	5,480.05	9,982.07	9,844.61	137.47	72.614		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	58.29	2,114.20	3,421.34	4,022.04					
100.00	100.00	52.02	52.02	0.13	0.10	58.29	2,114.20	3,421.38	4,021.92	4,021.69	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.29	2,114.22	3,421.93	4,022.55	4,021.70	0.85	4,719.653		
300.00	300.00	204.61	204.60	0.85	0.64	58.29	2,114.53	3,422.88	4,023.78	4,022.28	1.50	2,690.697		
400.00	400.00	307.61	307.59	1.21	1.01	58.29	2,115.36	3,424.16	4,025.26	4,023.04	2.22	1,811.635		
500.00	500.00	444.43	444.40	1.57	1.50	58.31	2,115.21	3,425.68	4,026.13	4,023.06	3.07	1,313.010		
600.00	599.98	539.43	539.40	1.92	1.84	-7.03	2,114.52	3,426.68	4,024.92	4,021.16	3.76	1,071.136		
700.00	699.84	637.05	637.01	2.28	2.18	-7.05	2,114.41	3,427.52	4,020.39	4,015.93	4.46	901.601		
800.00	799.45	779.46	779.42	2.64	2.67	-7.10	2,115.10	3,427.21	4,011.79	4,006.48	5.31	756.161		
900.00	898.70	912.01	911.96	3.02	3.12	-7.16	2,114.37	3,426.36	3,998.87	3,992.76	6.11	653.954		
1,000.00	997.47	994.65	994.60	3.41	3.40	-7.23	2,113.87	3,425.57	3,982.25	3,975.49	6.76	589.085		
1,100.00	1,095.62	1,087.96	1,087.90	3.84	3.72	-7.32	2,114.04	3,424.68	3,962.61	3,955.17	7.45	532.161		
1,200.00	1,193.06	1,202.66	1,202.59	4.29	4.11	-7.44	2,114.11	3,423.40	3,939.41	3,931.20	8.21	479.743		
1,300.00	1,289.64	1,321.96	1,321.88	4.78	4.53	-7.59	2,113.94	3,421.79	3,912.61	3,903.61	9.00	434.823		
1,400.00	1,385.27	1,412.12	1,412.01	5.32	4.84	-7.75	2,114.04	3,419.48	3,881.61	3,871.92	9.69	400.590		
1,500.00	1,479.82	1,467.00	1,466.89	5.90	5.04	-7.89	2,114.03	3,418.84	3,848.33	3,838.07	10.27	374.850		
1,600.00	1,573.17	1,800.39	1,799.30	6.53	6.22	-7.97	2,091.47	3,417.43	3,808.68	3,796.90	11.78	323.241		
1,700.00	1,665.21	1,894.28	1,892.31	7.23	6.56	-8.01	2,078.68	3,417.60	3,763.50	3,751.00	12.50	301.018		
1,800.00	1,755.84	1,998.57	1,995.20	7.98	6.96	-8.00	2,061.77	3,419.40	3,715.22	3,701.95	13.27	280.020		
1,900.00	1,844.94	2,072.98	2,068.35	8.80	7.25	-8.03	2,048.25	3,421.34	3,663.71	3,649.77	13.94	262.749		
2,000.00	1,932.39	2,135.49	2,129.65	9.68	7.50	-8.07	2,036.23	3,423.77	3,609.72	3,595.13	14.59	247.476		
2,100.00	2,018.11	2,194.08	2,187.07	10.63	7.74	-8.13	2,024.97	3,426.49	3,553.40	3,538.18	15.22	233.395		
2,200.00	2,101.97	2,260.50	2,252.22	11.65	8.01	-8.19	2,012.48	3,429.83	3,494.72	3,478.82	15.90	219.833		
2,300.00	2,183.88	2,376.06	2,365.69	12.74	8.50	-8.17	1,991.23	3,435.19	3,433.31	3,416.57	16.74	205.107		
2,400.00	2,263.74	2,442.25	2,430.68	13.90	8.78	-8.28	1,978.99	3,437.73	3,368.57	3,351.16	17.41	193.433		
2,431.61	2,288.54	2,460.74	2,448.86	14.29	8.86	-8.32	1,975.67	3,438.44	3,347.64	3,330.02	17.62	189.948		
2,500.00	2,341.97	2,500.00	2,529.18	15.13	9.03	-8.16	1,960.59	3,441.27	3,301.70	3,283.68	18.02	183.222		
2,600.00	2,420.08	2,624.93	2,610.02	16.37	9.57	-7.97	1,944.80	3,443.83	3,234.12	3,215.19	18.93	170.889		
2,700.00	2,498.20	2,666.00	2,650.33	17.63	9.75	-7.88	1,937.06	3,445.26	3,166.99	3,147.46	19.53	162.139		
2,800.00	2,576.32	2,724.45	2,707.78	18.89	10.01	-7.75	1,926.47	3,447.56	3,100.42	3,080.22	20.20	153.474		
2,900.00	2,654.43	2,797.48	2,779.60	20.17	10.33	-7.59	1,913.73	3,450.75	3,034.37	3,013.45	20.92	145.046		
3,000.00	2,732.55	2,890.15	2,870.58	21.45	10.74	-7.35	1,896.52	3,454.67	2,967.78	2,946.09	21.69	136.796		
3,100.00	2,810.67	2,966.52	2,945.66	22.74	11.08	-7.16	1,882.85	3,457.52	2,901.18	2,878.75	22.43	129.347		
3,200.00	2,888.78	3,052.26	3,029.72	24.03	11.47	-6.90	1,866.31	3,460.96	2,834.24	2,811.05	23.19	122.221		
3,300.00	2,966.90	3,105.40	3,081.81	25.33	11.71	-6.73	1,856.05	3,463.28	2,767.57	2,743.69	23.88	115.892		
3,400.00	3,045.02	3,189.56	3,164.45	26.63	12.10	-6.47	1,840.55	3,466.95	2,701.27	2,676.62	24.64	109.621		
3,500.00	3,123.13	3,266.01	3,239.51	27.94	12.44	-6.22	1,826.30	3,469.78	2,634.45	2,609.07	25.38	103.782		
3,600.00	3,201.25	3,329.04	3,301.56	29.24	12.73	-6.03	1,815.46	3,471.91	2,568.00	2,541.89	26.11	98.368		
3,700.00	3,279.37	3,422.12	3,393.18	30.55	13.15	-5.74	1,799.32	3,474.91	2,501.41	2,474.54	26.87	93.089		
3,800.00	3,357.49	3,516.08	3,485.43	31.86	13.58	-5.39	1,781.72	3,477.83	2,434.27	2,406.63	27.64	88.086		
3,900.00	3,435.60	3,576.53	3,544.84	33.18	13.86	-5.17	1,770.69	3,479.48	2,367.09	2,338.73	28.36	83.465		
4,000.00	3,513.72	3,635.62	3,603.08	34.49	14.12	-4.96	1,760.80	3,480.93	2,300.31	2,271.22	29.09	79.075		
4,100.00	3,591.84	3,692.22	3,658.85	35.81	14.38	-4.75	1,751.36	3,482.80	2,234.12	2,204.29	29.82	74.908		
4,200.00	3,669.95	3,768.04	3,733.52	37.12	14.72	-4.44	1,738.50	3,485.75	2,168.27	2,137.69	30.58	70.916		
4,300.00	3,748.07	3,837.48	3,801.83	38.44	15.04	-4.13	1,726.39	3,488.64	2,102.45	2,071.12	31.33	67.108		
4,400.00	3,826.19	3,935.01	3,897.61	39.76	15.49	-3.62	1,708.57	3,493.21	2,036.83	2,004.75	32.08	63.490		
4,500.00	3,904.30	4,019.49	3,980.50	41.08	15.89	-3.14	1,692.48	3,495.82	1,969.80	1,936.97	32.83	60.008		
4,600.00	3,982.42	4,075.00	4,035.25	42.40	16.14	-2.87	1,683.45	3,497.22	1,903.44	1,869.85	33.59	56.660		
4,700.00	4,060.54	4,134.58	4,094.14	43.72	16.40	-2.58	1,674.54	3,498.91	1,837.80	1,803.44	34.36	53.483		
4,800.00	4,138.66	4,241.79	4,199.93	45.05	16.88	-1.99	1,657.52	3,502.39	1,772.32	1,737.27	35.06	50.555		
4,900.00	4,216.77	4,329.31	4,286.01	46.37	17.29	-1.40	1,641.86	3,504.14	1,705.22	1,669.44	35.78	47.657		
5,000.00	4,294.89	4,400.74	4,356.19	47.69	17.62	-0.86	1,628.64	3,505.63	1,638.09	1,601.54	36.55	44.818		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,471.38	4,425.43	49.02	17.96	-0.23	1,614.78	3,507.67	1,571.23	1,533.90	37.34	42.083		
5,200.00	4,451.12	4,547.90	4,500.39	50.34	18.32	0.51	1,599.55	3,509.91	1,504.45	1,466.33	38.12	39.466		
5,300.00	4,529.24	4,633.73	4,584.45	51.67	18.74	1.43	1,582.35	3,511.95	1,437.39	1,398.51	38.88	36.972		
5,400.00	4,607.36	4,694.54	4,644.04	52.99	19.03	2.13	1,570.31	3,513.25	1,370.42	1,330.67	39.75	34.474		
5,500.00	4,685.47	4,756.42	4,704.82	54.32	19.32	2.87	1,558.78	3,514.94	1,304.35	1,263.70	40.65	32.087		
5,600.00	4,763.59	4,823.83	4,771.17	55.64	19.63	3.70	1,547.03	3,516.89	1,238.93	1,197.38	41.55	29.819		
5,700.00	4,841.71	4,894.22	4,840.51	56.97	19.96	4.64	1,535.13	3,519.10	1,174.04	1,131.57	42.47	27.646		
5,800.00	4,919.83	4,969.39	4,914.50	58.30	20.31	5.77	1,522.14	3,521.73	1,109.54	1,066.13	43.41	25.560		
5,900.00	4,997.94	5,045.25	4,989.25	59.62	20.65	7.02	1,509.41	3,524.04	1,045.13	1,000.73	44.40	23.539		
6,000.00	5,076.06	5,117.67	5,060.75	60.95	20.98	8.29	1,498.10	3,526.03	981.13	935.65	45.47	21.576		
6,100.00	5,154.18	5,185.79	5,128.05	62.28	21.28	9.62	1,487.73	3,528.16	917.84	871.17	46.67	19.667		
6,200.00	5,232.29	5,255.28	5,196.64	63.61	21.59	11.16	1,476.98	3,530.87	855.51	807.52	47.99	17.826		
6,300.00	5,310.41	5,329.21	5,269.59	64.93	21.93	13.05	1,465.44	3,534.22	794.17	744.71	49.46	16.057		
6,400.00	5,388.53	5,409.03	5,348.31	66.26	22.29	15.43	1,452.71	3,537.61	733.27	682.15	51.12	14.343		
6,500.00	5,466.64	5,487.07	5,425.43	67.59	22.63	18.05	1,441.07	3,540.39	672.93	619.86	53.07	12.680		
6,600.00	5,544.76	5,568.33	5,505.82	68.92	22.99	21.21	1,429.43	3,542.62	613.16	557.80	55.36	11.076		
6,700.00	5,622.88	5,640.73	5,577.39	70.25	23.31	24.59	1,418.70	3,544.36	554.52	496.26	58.27	9.517		
6,800.00	5,701.00	5,712.32	5,648.16	71.58	23.63	28.54	1,408.08	3,546.58	498.38	436.49	61.88	8.053		
6,900.00	5,779.11	5,785.65	5,720.60	72.91	23.95	33.37	1,397.03	3,549.29	445.40	379.00	66.40	6.708		
7,000.00	5,857.23	5,862.30	5,796.25	74.23	24.30	39.47	1,384.96	3,552.03	396.28	324.20	72.08	5.498		
7,100.00	5,935.35	5,939.19	5,872.20	75.56	24.64	46.68	1,373.26	3,554.59	352.45	273.55	78.90	4.467		
7,200.00	6,013.46	6,014.57	5,946.82	76.89	24.97	54.79	1,362.88	3,557.13	315.96	229.49	86.47	3.654		
7,300.00	6,091.58	6,088.47	6,019.88	78.22	25.30	63.86	1,352.13	3,559.66	290.22	196.19	94.02	3.087		
7,400.00	6,169.70	6,163.65	6,094.17	79.55	25.63	73.83	1,340.88	3,562.45	278.32	178.35	99.97	2.784		
7,432.66	6,195.21	6,190.26	6,120.48	79.99	25.74	77.43	1,337.06	3,563.43	277.59	176.22	101.37	2.738 CC, ES		
7,500.00	6,247.81	6,245.57	6,175.28	80.88	25.98	84.82	1,329.75	3,565.36	280.66	177.53	103.13	2.721 SF		
7,600.00	6,325.93	6,319.45	6,248.50	82.21	26.30	94.34	1,320.26	3,567.81	297.03	194.22	102.81	2.889		
7,700.00	6,404.05	6,396.07	6,324.40	83.54	26.63	103.35	1,310.13	3,570.31	326.08	225.61	100.47	3.245		
7,800.00	6,482.17	6,478.33	6,405.99	84.87	26.97	111.74	1,299.98	3,573.01	363.95	266.44	97.51	3.732		
7,900.00	6,560.28	6,561.42	6,488.62	86.20	27.31	118.95	1,291.61	3,575.68	406.95	312.48	94.47	4.308		
8,000.00	6,638.40	6,638.45	6,565.28	87.53	27.61	124.63	1,284.41	3,577.69	454.54	363.07	91.46	4.970		
8,100.00	6,716.52	6,714.26	6,640.77	88.86	27.91	129.44	1,277.52	3,579.02	505.86	417.05	88.81	5.696		
8,200.00	6,794.63	6,797.31	6,723.53	90.20	28.22	133.95	1,270.69	3,579.95	559.55	472.76	86.79	6.447		
8,300.00	6,872.75	6,885.76	6,811.79	91.53	28.54	138.05	1,265.06	3,580.83	614.18	528.92	85.26	7.204		
8,400.00	6,950.87	6,974.19	6,900.14	92.86	28.85	141.57	1,261.34	3,581.84	669.02	585.02	84.00	7.965		
8,500.00	7,028.98	7,060.25	6,986.16	94.19	29.14	144.55	1,259.09	3,582.99	724.10	641.17	82.92	8.732		
8,600.00	7,107.10	7,146.79	7,072.68	95.52	29.41	147.17	1,257.83	3,584.27	779.51	697.42	82.08	9.496		
8,647.91	7,144.53	7,188.96	7,114.84	96.16	29.54	148.33	1,257.55	3,585.03	806.07	724.31	81.77	9.858		
8,650.00	7,146.16	7,190.81	7,116.69	96.18	29.55	148.05	1,257.55	3,585.06	807.23	725.48	81.75	9.874		
8,700.00	7,185.66	7,231.94	7,157.82	96.84	29.67	141.13	1,257.52	3,585.74	833.48	752.17	81.31	10.251		
8,750.00	7,225.78	7,273.68	7,199.55	97.47	29.79	134.16	1,257.73	3,586.25	856.98	776.24	80.74	10.614		
8,800.00	7,266.21	7,341.37	7,267.21	98.08	29.97	128.17	1,259.49	3,586.92	877.29	796.86	80.43	10.907		
8,850.00	7,306.63	8,850.00	7,340.72	98.64	33.41	122.88	1,265.46	3,587.77	893.09	809.53	83.56	10.688		
8,900.00	7,346.75	8,345.47	7,902.03	99.17	30.59	166.81	1,882.45	3,572.96	894.93	818.92	76.01	11.775		
8,950.00	7,386.25	8,333.66	7,901.37	99.64	30.57	160.23	1,870.66	3,572.56	891.47	813.76	77.70	11.472		
8,991.98	7,418.72	8,318.68	7,900.49	99.99	30.55	154.63	1,855.71	3,572.12	890.59	811.74	78.85	11.295		
9,000.00	7,424.84	8,315.31	7,900.28	100.06	30.55	153.56	1,852.35	3,572.03	890.62	811.58	79.04	11.268		
9,050.00	7,462.22	8,295.97	7,899.00	100.42	30.53	147.25	1,833.06	3,571.57	892.13	811.88	80.25	11.117		
9,100.00	7,498.11	9,100.00	7,889.86	100.74	30.79	137.64	1,750.33	3,570.66	895.33	816.28	79.04	11.327		
9,150.00	7,532.24	8,110.15	7,867.22	100.99	30.47	127.50	1,650.47	3,572.42	899.09	822.84	76.25	11.791		
9,200.00	7,564.34	8,059.27	7,850.12	101.19	30.49	120.96	1,602.60	3,574.14	902.53	826.54	75.99	11.877		
9,250.00	7,594.17	7,981.29	7,816.52	101.34	30.52	113.31	1,532.38	3,577.72	905.96	831.08	74.88	12.099		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,949.14	7,799.68	101.45	30.54	108.81	1,505.05	3,579.28	909.43	834.53	74.91	12.141		
9,350.00	7,646.13	7,921.78	7,783.85	101.50	30.55	104.95	1,482.77	3,580.38	913.23	838.19	75.04	12.169		
9,400.00	7,667.87	7,897.33	7,768.49	101.51	30.56	101.61	1,463.76	3,581.13	917.26	841.94	75.32	12.178		
9,450.00	7,686.55	7,874.72	7,753.32	101.48	30.57	98.68	1,447.00	3,581.61	921.42	845.65	75.77	12.160		
9,500.00	7,702.04	7,855.66	7,739.85	101.42	30.58	96.24	1,433.53	3,581.88	925.59	849.06	76.53	12.094		
9,550.00	7,714.20	7,822.93	7,715.42	101.33	30.58	93.34	1,411.76	3,582.19	929.58	852.72	76.86	12.095		
9,600.00	7,722.96	7,791.87	7,691.01	101.20	30.58	90.83	1,392.56	3,582.61	933.05	855.64	77.41	12.053		
9,650.00	7,728.24	7,762.07	7,666.51	101.06	30.58	88.68	1,375.60	3,583.19	935.86	857.65	78.21	11.966		
9,699.97	7,730.00	7,731.42	7,640.34	100.90	30.56	86.78	1,359.70	3,584.01	937.93	858.76	79.17	11.848		
9,800.00	7,730.00	7,686.62	7,600.69	100.56	30.54	84.36	1,338.93	3,585.59	945.28	862.99	82.29	11.488		
9,900.00	7,730.00	7,661.00	7,577.41	100.24	30.52	82.94	1,328.26	3,586.52	961.37	874.84	86.53	11.110		
10,000.00	7,730.00	7,635.44	7,553.83	99.93	30.49	81.51	1,318.41	3,587.26	986.35	895.69	90.66	10.880		
10,100.00	7,730.00	7,614.00	7,533.83	99.64	30.47	80.31	1,310.70	3,587.60	1,019.87	925.22	94.64	10.776		
10,200.00	7,730.00	7,598.93	7,519.66	99.36	30.46	79.46	1,305.60	3,587.72	1,061.16	962.74	98.42	10.782		
10,300.00	7,730.00	7,582.75	7,504.33	99.09	30.44	78.56	1,300.42	3,587.78	1,109.45	1,007.81	101.64	10.916		
10,400.00	7,730.00	7,567.00	7,489.30	98.84	30.42	77.67	1,295.69	3,587.76	1,163.94	1,059.58	104.37	11.152		
10,500.00	7,730.00	7,553.64	7,476.49	98.61	30.40	76.92	1,291.92	3,587.73	1,223.84	1,117.14	106.70	11.470		
10,600.00	7,730.00	7,540.39	7,463.72	98.39	30.38	76.18	1,288.39	3,587.70	1,288.43	1,179.80	108.63	11.861		
10,700.00	7,730.00	7,520.00	7,443.95	98.18	30.35	75.04	1,283.37	3,587.68	1,357.13	1,247.10	110.03	12.334		
10,800.00	7,730.00	7,500.00	7,423.95	97.99	30.35	75.04	1,283.37	3,587.68	1,429.24	1,317.62	111.62	12.805		
10,900.00	7,730.00	7,507.92	7,432.18	97.81	30.33	74.37	1,280.64	3,587.69	1,504.42	1,391.75	112.67	13.353		
11,000.00	7,730.00	7,498.88	7,423.35	97.64	30.31	73.86	1,278.71	3,587.72	1,582.23	1,468.65	113.58	13.931		
11,100.00	7,730.00	7,490.70	7,415.35	97.50	30.30	73.41	1,277.05	3,587.75	1,662.31	1,547.98	114.33	14.540		
11,200.00	7,730.00	7,473.00	7,397.96	97.36	30.27	72.43	1,273.74	3,587.87	1,744.43	1,629.64	114.79	15.197		
11,300.00	7,730.00	7,473.00	7,397.96	97.24	30.27	72.43	1,273.74	3,587.87	1,828.12	1,712.71	115.41	15.840		
11,400.00	7,730.00	7,473.00	7,397.96	97.14	30.27	72.43	1,273.74	3,587.87	1,913.37	1,797.45	115.92	16.506		
11,500.00	7,730.00	7,473.00	7,397.96	97.06	30.27	72.43	1,273.74	3,587.87	2,000.00	1,883.66	116.33	17.192		
11,600.00	7,730.00	7,473.00	7,397.96	96.98	30.27	72.43	1,273.74	3,587.87	2,087.81	1,971.14	116.67	17.894		
11,700.00	7,730.00	7,454.77	7,379.98	96.93	30.23	71.43	1,270.69	3,587.96	2,176.43	2,059.67	116.75	18.641		
11,800.00	7,730.00	7,450.17	7,375.44	96.90	30.22	71.18	1,269.97	3,587.97	2,266.08	2,149.14	116.95	19.377		
11,900.00	7,730.00	7,445.84	7,371.16	96.88	30.22	70.94	1,269.32	3,587.97	2,356.54	2,239.44	117.10	20.124		
12,000.00	7,730.00	7,426.00	7,351.51	96.88	30.18	69.87	1,266.56	3,587.88	2,447.90	2,330.82	117.08	20.907		
12,100.00	7,730.00	7,426.00	7,351.51	96.90	30.18	69.87	1,266.56	3,587.88	2,539.64	2,422.42	117.23	21.664		
12,200.00	7,730.00	7,426.00	7,351.51	96.94	30.18	69.87	1,266.56	3,587.88	2,631.98	2,514.64	117.34	22.430		
12,300.00	7,730.00	7,426.00	7,351.51	97.00	30.18	69.87	1,266.56	3,587.88	2,724.86	2,607.43	117.44	23.203		
12,400.00	7,730.00	7,426.00	7,351.51	97.08	30.18	69.87	1,266.56	3,587.88	2,818.23	2,700.72	117.51	23.983		
12,500.00	7,730.00	7,426.00	7,351.51	97.18	30.18	69.87	1,266.56	3,587.88	2,912.04	2,794.47	117.57	24.769		
12,600.00	7,730.00	7,426.00	7,351.51	97.31	30.18	69.87	1,266.56	3,587.88	3,006.25	2,888.63	117.61	25.560		
12,700.00	7,730.00	7,426.00	7,351.51	97.46	30.18	69.87	1,266.56	3,587.88	3,100.82	2,983.17	117.65	26.357		
12,800.00	7,730.00	7,426.00	7,351.51	97.64	30.18	69.87	1,266.56	3,587.88	3,195.72	3,078.04	117.67	27.157		
12,900.00	7,730.00	7,426.00	7,351.51	97.85	30.18	69.87	1,266.56	3,587.88	3,290.92	3,173.23	117.69	27.962		
13,000.00	7,730.00	7,426.00	7,351.51	98.09	30.18	69.87	1,266.56	3,587.88	3,386.40	3,268.70	117.70	28.771		
13,100.00	7,730.00	7,426.00	7,351.51	98.35	30.18	69.87	1,266.56	3,587.88	3,482.13	3,364.43	117.71	29.583		
13,200.00	7,730.00	7,407.10	7,332.75	98.65	30.13	68.86	1,264.34	3,587.71	3,577.84	3,460.24	117.61	30.422		
13,300.00	7,730.00	7,405.07	7,330.73	98.98	30.13	68.76	1,264.12	3,587.69	3,673.97	3,556.37	117.60	31.242		
13,400.00	7,730.00	7,403.12	7,328.79	99.34	30.12	68.65	1,263.92	3,587.67	3,770.29	3,652.71	117.58	32.065		
13,500.00	7,730.00	7,401.26	7,326.94	99.74	30.12	68.56	1,263.73	3,587.65	3,866.79	3,749.22	117.57	32.889		
13,600.00	7,730.00	7,399.48	7,325.16	100.17	30.12	68.46	1,263.56	3,587.63	3,963.46	3,845.91	117.55	33.716		
13,700.00	7,730.00	7,397.76	7,323.46	100.65	30.11	68.37	1,263.39	3,587.62	4,060.29	3,942.76	117.54	34.545		
13,800.00	7,730.00	7,379.00	7,304.77	101.16	30.07	67.39	1,261.80	3,587.39	4,157.47	4,040.03	117.44	35.400		
13,900.00	7,730.00	7,379.00	7,304.77	101.71	30.07	67.39	1,261.80	3,587.39	4,254.55	4,137.11	117.43	36.230		
14,000.00	7,730.00	7,379.00	7,304.77	102.30	30.07	67.39	1,261.80	3,587.39	4,351.75	4,234.33	117.42	37.061		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,379.00	7,304.77	102.93	30.07	67.39	1,261.80	3,587.39	4,449.09	4,331.68	117.41	37.894		
14,200.00	7,730.00	7,379.00	7,304.77	103.60	30.07	67.39	1,261.80	3,587.39	4,546.53	4,429.14	117.40	38.728		
14,300.00	7,730.00	7,379.00	7,304.77	104.32	30.07	67.39	1,261.80	3,587.39	4,644.09	4,526.71	117.38	39.564		
14,400.00	7,730.00	7,379.00	7,304.77	105.07	30.07	67.39	1,261.80	3,587.39	4,741.74	4,624.38	117.37	40.401		
14,500.00	7,730.00	7,379.00	7,304.77	105.86	30.07	67.39	1,261.80	3,587.39	4,839.50	4,722.14	117.35	41.239		
14,600.00	7,730.00	7,379.00	7,304.77	106.70	30.07	67.39	1,261.80	3,587.39	4,937.34	4,820.00	117.34	42.078		
14,700.00	7,730.00	7,379.00	7,304.77	107.57	30.07	67.39	1,261.80	3,587.39	5,035.27	4,917.94	117.32	42.918		
14,800.00	7,730.00	7,379.00	7,304.77	108.48	30.07	67.39	1,261.80	3,587.39	5,133.27	5,015.97	117.31	43.759		
14,900.00	7,730.00	7,379.00	7,304.77	109.43	30.07	67.39	1,261.80	3,587.39	5,231.36	5,114.06	117.29	44.600		
15,000.00	7,730.00	7,379.00	7,304.77	110.42	30.07	67.39	1,261.80	3,587.39	5,329.51	5,212.23	117.28	45.443		
15,100.00	7,730.00	7,379.00	7,304.77	111.43	30.07	67.39	1,261.80	3,587.39	5,427.73	5,310.47	117.27	46.286		
15,200.00	7,730.00	7,379.00	7,304.77	112.49	30.07	67.39	1,261.80	3,587.39	5,526.02	5,408.77	117.25	47.130		
15,300.00	7,730.00	7,379.00	7,304.77	113.57	30.07	67.39	1,261.80	3,587.39	5,624.36	5,507.13	117.24	47.974		
15,400.00	7,730.00	7,379.00	7,304.77	114.68	30.07	67.39	1,261.80	3,587.39	5,722.77	5,605.54	117.23	48.819		
15,500.00	7,730.00	7,379.00	7,304.77	115.82	30.07	67.39	1,261.80	3,587.39	5,821.23	5,704.01	117.21	49.664		
15,600.00	7,730.00	7,379.00	7,304.77	116.99	30.07	67.39	1,261.80	3,587.39	5,919.73	5,802.53	117.20	50.509		
15,700.00	7,730.00	7,379.00	7,304.77	118.19	30.07	67.39	1,261.80	3,587.39	6,018.29	5,901.10	117.19	51.355		
15,800.00	7,730.00	7,379.00	7,304.77	119.41	30.07	67.39	1,261.80	3,587.39	6,116.90	5,999.72	117.18	52.202		
15,900.00	7,730.00	7,379.00	7,304.77	120.65	30.07	67.39	1,261.80	3,587.39	6,215.55	6,098.38	117.17	53.048		
16,000.00	7,730.00	7,379.00	7,304.77	121.91	30.07	67.39	1,261.80	3,587.39	6,314.24	6,197.08	117.16	53.895		
16,100.00	7,730.00	7,379.00	7,304.77	123.20	30.07	67.39	1,261.80	3,587.39	6,412.97	6,295.82	117.15	54.743		
16,200.00	7,730.00	7,379.00	7,304.77	124.50	30.07	67.39	1,261.80	3,587.39	6,511.74	6,394.61	117.14	55.590		
16,300.00	7,730.00	7,379.00	7,304.77	125.82	30.07	67.39	1,261.80	3,587.39	6,610.55	6,493.42	117.13	56.437		
16,400.00	7,730.00	7,379.00	7,304.77	127.16	30.07	67.39	1,261.80	3,587.39	6,709.40	6,592.27	117.12	57.285		
16,500.00	7,730.00	7,379.00	7,304.77	128.52	30.07	67.39	1,261.80	3,587.39	6,808.27	6,691.16	117.12	58.133		
16,600.00	7,730.00	7,379.00	7,304.77	129.89	30.07	67.39	1,261.80	3,587.39	6,907.18	6,790.07	117.11	58.981		
16,700.00	7,730.00	7,379.00	7,304.77	131.27	30.07	67.39	1,261.80	3,587.39	7,006.12	6,889.02	117.10	59.829		
16,800.00	7,730.00	7,379.00	7,304.77	132.67	30.07	67.39	1,261.80	3,587.39	7,105.09	6,988.00	117.10	60.676		
16,900.00	7,730.00	7,379.00	7,304.77	134.09	30.07	67.39	1,261.80	3,587.39	7,204.09	7,087.00	117.09	61.524		
17,000.00	7,730.00	7,379.00	7,304.77	135.51	30.07	67.39	1,261.80	3,587.39	7,303.12	7,186.03	117.09	62.372		
17,100.00	7,730.00	7,379.00	7,304.77	136.95	30.07	67.39	1,261.80	3,587.39	7,402.17	7,285.09	117.09	63.220		
17,200.00	7,730.00	7,379.00	7,304.77	138.40	30.07	67.39	1,261.80	3,587.39	7,501.25	7,384.17	117.08	64.068		
17,300.00	7,730.00	7,379.00	7,304.77	139.85	30.07	67.39	1,261.80	3,587.39	7,600.35	7,483.27	117.08	64.916		
17,400.00	7,730.00	7,379.00	7,304.77	141.32	30.07	67.39	1,261.80	3,587.39	7,699.48	7,582.40	117.08	65.763		
17,500.00	7,730.00	7,379.00	7,304.77	142.80	30.07	67.39	1,261.80	3,587.39	7,798.62	7,681.55	117.08	66.611		
17,600.00	7,730.00	7,379.00	7,304.77	144.28	30.07	67.39	1,261.80	3,587.39	7,897.79	7,780.71	117.08	67.458		
17,700.00	7,730.00	7,379.00	7,304.77	145.78	30.07	67.39	1,261.80	3,587.39	7,996.98	7,879.90	117.08	68.305		
17,800.00	7,730.00	7,379.00	7,304.77	147.28	30.07	67.39	1,261.80	3,587.39	8,096.19	7,979.11	117.08	69.152		
17,900.00	7,730.00	7,379.00	7,304.77	148.79	30.07	67.39	1,261.80	3,587.39	8,195.42	8,078.34	117.08	69.999		
18,000.00	7,730.00	7,379.00	7,304.77	150.31	30.07	67.39	1,261.80	3,587.39	8,294.67	8,177.59	117.08	70.846		
18,100.00	7,730.00	7,379.00	7,304.77	151.83	30.07	67.39	1,261.80	3,587.39	8,393.93	8,276.85	117.08	71.692		
18,200.00	7,730.00	7,379.00	7,304.77	153.37	30.07	67.39	1,261.80	3,587.39	8,493.21	8,376.13	117.09	72.538		
18,300.00	7,730.00	7,379.00	7,304.77	154.90	30.07	67.39	1,261.80	3,587.39	8,592.51	8,475.42	117.09	73.384		
18,400.00	7,730.00	7,379.00	7,304.77	156.45	30.07	67.39	1,261.80	3,587.39	8,691.83	8,574.73	117.09	74.230		
18,500.00	7,730.00	7,379.00	7,304.77	158.00	30.07	67.39	1,261.80	3,587.39	8,791.16	8,674.06	117.10	75.075		
18,600.00	7,730.00	7,379.00	7,304.77	159.55	30.07	67.39	1,261.80	3,587.39	8,890.50	8,773.40	117.10	75.920		
18,700.00	7,730.00	7,379.00	7,304.77	161.11	30.07	67.39	1,261.80	3,587.39	8,989.86	8,872.75	117.11	76.765		
18,800.00	7,730.00	7,379.00	7,304.77	162.68	30.07	67.39	1,261.80	3,587.39	9,089.24	8,972.12	117.11	77.610		
18,900.00	7,730.00	7,379.00	7,304.77	164.25	30.07	67.39	1,261.80	3,587.39	9,188.62	9,071.50	117.12	78.454		
19,000.00	7,730.00	7,379.00	7,304.77	165.83	30.07	67.39	1,261.80	3,587.39	9,288.03	9,170.90	117.13	79.297		
19,100.00	7,730.00	7,338.95	7,264.80	167.41	29.97	65.34	1,259.37	3,586.90	9,386.81	9,269.77	117.05	80.198		
19,200.00	7,730.00	7,338.32	7,264.16	168.99	29.96	65.31	1,259.34	3,586.89	9,486.22	9,369.17	117.05	81.042		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	7,337.69	7,263.54	170.58	29.96	65.28	1,259.31	3,586.88	9,585.64	9,468.58	117.06	81.886	
19,400.00	7,730.00	7,337.08	7,262.93	172.17	29.96	65.25	1,259.28	3,586.88	9,685.07	9,568.00	117.07	82.730	
19,430.54	7,730.00	7,336.90	7,262.74	172.66	29.96	65.24	1,259.28	3,586.87	9,715.43	9,598.36	117.07	82.987	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	57.85	2,113.10	3,361.71	3,970.85					
100.00	100.00	53.18	53.18	0.13	0.10	57.85	2,113.09	3,361.75	3,970.72	3,970.49	0.24	N/A		
200.00	200.00	128.05	128.05	0.49	0.37	57.85	2,113.00	3,362.32	3,971.29	3,970.43	0.86	4,601.047		
300.00	300.00	224.33	224.33	0.85	0.71	57.86	2,113.14	3,363.29	3,972.22	3,970.66	1.57	2,537.481		
400.00	400.00	312.18	312.16	1.21	1.03	57.86	2,113.61	3,364.16	3,973.35	3,971.11	2.24	1,775.753		
500.00	500.00	449.58	449.56	1.57	1.51	57.86	2,114.22	3,364.95	3,974.04	3,970.96	3.08	1,289.345		
600.00	599.98	535.61	535.58	1.92	1.82	-7.51	2,115.01	3,365.04	3,972.87	3,969.13	3.74	1,062.674		
700.00	699.84	664.79	664.76	2.28	2.27	-7.56	2,116.54	3,364.50	3,967.95	3,963.41	4.54	873.310		
800.00	799.45	776.21	776.17	2.64	2.65	-7.61	2,117.12	3,363.84	3,959.08	3,953.80	5.29	748.838		
900.00	898.70	884.75	884.72	3.02	3.03	-7.68	2,117.34	3,363.12	3,946.56	3,940.54	6.02	655.249		
1,000.00	997.47	981.71	981.67	3.41	3.36	-7.76	2,117.36	3,362.39	3,930.44	3,923.72	6.72	584.855		
1,100.00	1,095.62	1,067.38	1,067.33	3.84	3.65	-7.84	2,116.97	3,362.23	3,911.14	3,903.75	7.38	529.753		
1,200.00	1,193.06	1,982.62	1,973.57	4.29	7.05	-8.18	2,051.89	3,283.35	3,874.62	3,863.81	10.81	358.292		
1,300.00	1,289.64	2,123.24	2,110.64	4.78	7.67	-8.26	2,027.82	3,263.20	3,829.23	3,817.58	11.66	328.536		
1,400.00	1,385.27	2,183.60	2,169.35	5.32	7.95	-8.39	2,016.98	3,254.32	3,779.86	3,767.62	12.24	308.814		
1,500.00	1,479.82	2,238.09	2,222.43	5.90	8.19	-8.55	2,007.40	3,246.63	3,728.14	3,715.33	12.81	291.052		
1,600.00	1,573.17	2,294.00	2,277.02	6.53	8.45	-8.72	1,997.88	3,239.14	3,674.24	3,660.86	13.39	274.475		
1,700.00	1,665.21	2,443.96	2,423.26	7.23	9.15	-8.90	1,971.86	3,218.59	3,617.26	3,603.00	14.26	253.604		
1,800.00	1,755.84	1,800.00	2,544.66	7.98	6.11	-9.13	1,948.97	3,199.11	3,555.49	3,543.47	12.02	295.789		
1,900.00	1,844.94	2,622.96	2,596.98	8.80	10.02	-9.40	1,939.10	3,190.54	3,491.06	3,475.43	15.63	223.326		
2,000.00	1,932.39	2,662.69	2,635.65	9.68	10.21	-9.71	1,932.28	3,184.46	3,424.83	3,408.66	16.17	211.821		
2,100.00	2,018.11	2,701.90	2,673.91	10.63	10.40	-10.06	1,925.94	3,178.68	3,356.80	3,340.09	16.71	200.922		
2,200.00	2,101.97	2,761.00	2,731.75	11.65	10.69	-10.47	1,917.11	3,170.35	3,287.12	3,269.82	17.30	189.977		
2,300.00	2,183.88	2,785.77	2,756.04	12.74	10.81	-10.90	1,913.57	3,167.01	3,215.44	3,197.64	17.81	180.554		
2,400.00	2,263.74	2,838.10	2,807.37	13.90	11.05	-11.40	1,905.96	3,160.25	3,141.91	3,123.52	18.39	170.853		
2,431.61	2,288.54	2,855.00	2,823.95	14.29	11.13	-11.58	1,903.46	3,158.16	3,118.26	3,099.69	18.58	167.851		
2,500.00	2,341.97	2,946.80	2,913.88	15.13	11.57	-11.75	1,889.16	3,146.52	3,066.53	3,047.43	19.10	160.523		
2,600.00	2,420.08	3,009.15	2,974.83	16.37	11.87	-11.85	1,878.70	3,138.54	2,990.40	2,970.70	19.70	151.769		
2,700.00	2,498.20	2,700.00	3,072.72	17.63	10.34	-12.01	1,860.78	3,125.56	2,913.75	2,894.98	18.77	155.223		
2,800.00	2,576.32	3,235.32	3,194.99	18.89	13.00	-12.24	1,837.71	3,107.08	2,835.86	2,814.76	21.10	134.374		
2,900.00	2,654.43	3,303.71	3,261.34	20.17	13.36	-12.38	1,824.99	3,096.40	2,757.56	2,735.85	21.72	126.975		
3,000.00	2,732.55	3,406.17	3,360.57	21.45	13.90	-12.63	1,805.83	3,079.56	2,678.85	2,656.48	22.37	119.738		
3,100.00	2,810.67	3,450.72	3,403.64	22.74	14.13	-12.75	1,797.47	3,071.84	2,599.64	2,576.68	22.96	113.217		
3,200.00	2,888.78	3,485.64	3,437.50	24.03	14.32	-12.86	1,791.18	3,066.06	2,521.06	2,497.50	23.56	107.020		
3,300.00	2,966.90	3,536.77	3,487.21	25.33	14.58	-13.01	1,782.30	3,057.99	2,443.11	2,418.93	24.18	101.044		
3,400.00	3,045.02	3,624.75	3,572.49	26.63	15.05	-13.27	1,765.83	3,043.98	2,364.57	2,339.76	24.82	95.281		
3,500.00	3,123.13	3,663.90	3,610.45	27.94	15.25	-13.39	1,758.48	3,037.87	2,286.26	2,260.80	25.45	89.821		
3,600.00	3,201.25	3,704.02	3,649.46	29.24	15.46	-13.52	1,751.30	3,031.83	2,208.57	2,182.46	26.11	84.592		
3,700.00	3,279.37	3,782.57	3,725.84	30.55	15.87	-13.80	1,737.22	3,020.16	2,130.99	2,104.23	26.76	79.647		
3,800.00	3,357.49	3,837.88	3,779.58	31.86	16.16	-14.00	1,726.95	3,011.98	2,053.23	2,025.81	27.42	74.873		
3,900.00	3,435.60	3,888.35	3,828.66	33.18	16.42	-14.18	1,717.60	3,004.88	1,975.87	1,947.76	28.11	70.292		
4,000.00	3,513.72	3,939.31	3,878.29	34.49	16.68	-14.38	1,708.36	2,997.96	1,898.93	1,870.12	28.81	65.911		
4,100.00	3,591.84	3,991.59	3,929.31	35.81	16.95	-14.61	1,699.33	2,990.95	1,822.43	1,792.90	29.53	61.718		
4,200.00	3,669.95	4,051.41	3,987.75	37.12	17.25	-14.91	1,689.42	2,982.95	1,746.23	1,715.98	30.25	57.736		
4,300.00	3,748.07	4,111.46	4,046.48	38.44	17.55	-15.25	1,679.84	2,974.84	1,670.22	1,639.24	30.98	53.917		
4,400.00	3,826.19	4,171.72	4,105.47	39.76	17.85	-15.66	1,670.75	2,966.52	1,594.42	1,562.69	31.73	50.251		
4,500.00	3,904.30	4,279.52	4,210.75	41.08	18.40	-16.53	1,654.40	2,950.13	1,517.89	1,485.60	32.30	47.001		
4,600.00	3,982.42	4,340.21	4,269.85	42.40	18.71	-17.10	1,644.89	2,940.20	1,440.61	1,407.54	33.07	43.566		
4,700.00	4,060.54	4,413.74	4,341.42	43.72	19.10	-17.88	1,633.26	2,927.91	1,363.18	1,329.39	33.79	40.344		
4,800.00	4,138.66	4,499.68	4,424.79	45.05	19.56	-18.92	1,619.01	2,912.70	1,285.06	1,250.63	34.43	37.324		
4,900.00	4,216.77	4,574.39	4,496.87	46.37	19.97	-19.94	1,605.27	2,898.68	1,205.72	1,170.58	35.14	34.311		
5,000.00	4,294.89	4,624.20	4,544.96	47.69	20.25	-20.71	1,596.16	2,889.41	1,126.67	1,090.56	36.11	31.199		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,683.88	4,602.68	49.02	20.58	-21.75	1,585.52	2,878.59	1,048.16	1,011.10	37.06	28.286		
5,200.00	4,451.12	4,750.35	4,666.87	50.34	20.95	-23.06	1,573.12	2,866.61	969.53	931.55	37.98	25.528		
5,300.00	4,529.24	4,794.82	4,709.90	51.67	21.19	-24.06	1,564.91	2,858.95	891.53	852.25	39.28	22.695		
5,400.00	4,607.36	4,848.16	4,761.70	52.99	21.48	-25.41	1,555.51	2,850.38	814.69	774.07	40.62	20.057		
5,500.00	4,685.47	4,924.54	4,835.74	54.32	21.90	-27.75	1,541.69	2,837.69	737.74	696.00	41.73	17.678		
5,600.00	4,763.59	5,001.88	4,910.28	55.64	22.34	-30.76	1,526.55	2,823.71	659.90	616.94	42.96	15.361		
5,700.00	4,841.71	5,061.15	4,967.14	56.97	22.68	-33.68	1,514.17	2,812.43	581.67	536.81	44.86	12.967		
5,800.00	4,919.83	5,115.17	5,019.07	58.30	22.99	-37.01	1,503.17	2,802.48	504.80	457.39	47.41	10.648		
5,900.00	4,997.94	5,172.42	5,074.26	59.62	23.32	-41.40	1,491.55	2,792.57	429.72	379.10	50.62	8.490		
6,000.00	5,076.06	5,232.88	5,132.60	60.95	23.66	-47.29	1,478.92	2,783.06	356.95	302.14	54.81	6.512		
6,100.00	5,154.18	5,296.21	5,193.65	62.28	24.02	-55.66	1,465.30	2,773.12	287.27	226.54	60.73	4.731		
6,200.00	5,232.29	5,354.42	5,249.76	63.61	24.34	-66.14	1,452.76	2,764.01	224.14	154.25	69.88	3.207		
6,300.00	5,310.41	5,414.40	5,307.81	64.93	24.68	-80.20	1,440.50	2,755.21	175.48	93.50	81.97	2.141		
6,400.00	5,388.53	5,477.25	5,368.60	66.26	25.02	-97.89	1,427.54	2,745.92	153.80	63.67	90.12	1.706		
6,408.06	5,394.82	5,482.24	5,373.42	66.37	25.05	-99.36	1,426.49	2,745.16	153.66	63.47	90.19	1.704 CC, ES, SF		
6,500.00	5,466.64	5,538.19	5,427.45	67.59	25.36	-115.41	1,414.71	2,736.61	170.02	85.91	84.11	2.021		
6,600.00	5,544.76	5,599.63	5,486.87	68.92	25.71	-130.36	1,402.20	2,727.28	216.04	143.85	72.19	2.993		
6,700.00	5,622.88	5,662.82	5,548.06	70.25	26.05	-141.96	1,389.54	2,717.91	276.99	213.70	63.29	4.377		
6,800.00	5,701.00	5,725.48	5,608.80	71.58	26.39	-150.32	1,377.07	2,708.83	344.85	287.00	57.85	5.961		
6,900.00	5,779.11	5,787.87	5,669.33	72.91	26.73	-156.36	1,364.99	2,699.76	416.34	361.64	54.70	7.611		
7,000.00	5,857.23	5,846.27	5,726.01	74.23	27.05	-160.56	1,354.08	2,690.89	490.14	437.33	52.81	9.281		
7,100.00	5,935.35	5,908.60	5,786.53	75.56	27.39	-163.93	1,342.92	2,680.96	565.43	513.54	51.89	10.896		
7,200.00	6,013.46	5,975.64	5,851.75	76.89	27.75	-166.69	1,331.48	2,670.50	641.11	589.47	51.64	12.415		
7,300.00	6,091.58	6,036.28	5,910.71	78.22	28.07	-168.74	1,320.69	2,661.29	717.16	665.70	51.46	13.935		
7,400.00	6,169.70	6,113.47	5,985.70	79.55	28.48	-170.94	1,306.20	2,650.16	793.37	741.42	51.95	15.271		
7,500.00	6,247.81	6,211.37	6,081.58	80.88	28.97	-172.98	1,290.24	2,638.49	867.74	814.61	53.13	16.331		
7,600.00	6,325.93	6,298.11	6,167.11	82.21	29.37	-174.31	1,278.33	2,630.38	939.97	885.93	54.05	17.392		
7,700.00	6,404.05	6,370.30	6,238.45	83.54	29.69	-175.18	1,269.23	2,624.05	1,011.72	957.09	54.63	18.519		
7,800.00	6,482.17	6,436.61	6,304.03	84.87	29.98	-175.81	1,261.71	2,617.87	1,083.59	1,028.47	55.12	19.658		
7,900.00	6,560.28	6,553.38	6,419.92	86.20	30.46	-176.59	1,251.36	2,608.09	1,154.31	1,097.56	56.75	20.341		
8,000.00	6,638.40	6,646.16	6,512.30	87.53	30.81	-177.04	1,245.07	2,602.36	1,222.98	1,165.19	57.79	21.161		
8,100.00	6,716.52	6,723.99	6,589.89	88.86	31.08	-177.33	1,240.86	2,598.00	1,290.88	1,232.34	58.53	22.054		
8,200.00	6,794.63	6,806.06	6,671.77	90.20	31.37	-177.56	1,237.26	2,593.61	1,358.32	1,298.97	59.35	22.886		
8,300.00	6,872.75	6,905.12	6,770.67	91.53	31.70	-177.76	1,234.09	2,589.03	1,424.95	1,364.49	60.46	23.569		
8,400.00	6,950.87	6,996.28	6,861.76	92.86	31.99	-177.88	1,232.50	2,585.74	1,490.43	1,429.02	61.40	24.273		
8,500.00	7,028.98	7,075.16	6,940.60	94.19	32.23	-177.97	1,231.53	2,583.28	1,555.42	1,493.28	62.14	25.031		
8,600.00	7,107.10	7,162.04	7,027.44	95.52	32.50	-178.06	1,230.37	2,580.89	1,620.20	1,557.20	63.00	25.718		
8,647.91	7,144.53	7,209.24	7,074.62	96.16	32.64	-178.13	1,229.54	2,580.03	1,650.98	1,587.49	63.49	26.004		
8,650.00	7,146.16	7,211.74	7,077.12	96.18	32.65	-178.54	1,229.50	2,579.99	1,652.32	1,588.80	63.52	26.013		
8,700.00	7,185.66	7,272.98	7,138.35	96.84	32.83	-171.63	1,228.72	2,579.48	1,683.41	1,619.20	64.20	26.219		
8,750.00	7,225.78	7,319.93	7,185.30	97.47	32.96	-161.93	1,228.46	2,579.44	1,712.82	1,648.14	64.68	26.482		
8,800.00	7,266.21	7,360.66	7,226.03	98.08	33.07	-152.43	1,228.52	2,579.33	1,740.73	1,675.65	65.07	26.750		
8,850.00	7,306.63	7,444.64	7,504.27	98.64	33.55	-147.74	1,274.89	2,580.85	1,764.16	1,695.76	68.41	25.789		
8,900.00	7,346.75	7,446.44	7,504.26	99.17	32.37	-164.06	1,910.52	2,567.73	1,778.50	1,694.73	83.77	21.232		
8,950.00	7,386.25	8,436.65	7,903.85	99.64	32.39	-156.05	1,900.75	2,567.47	1,793.00	1,708.88	84.12	21.314		
9,000.00	7,424.84	9,000.00	7,844.55	100.06	31.60	-138.94	1,603.17	2,571.05	1,807.63	1,731.83	75.79	23.850		
9,050.00	7,462.22	8,147.13	7,851.55	100.42	33.01	-133.07	1,618.16	2,570.69	1,821.95	1,744.72	77.23	23.591		
9,100.00	7,498.11	8,128.92	7,844.05	100.74	33.05	-126.71	1,601.57	2,571.08	1,836.28	1,758.90	77.37	23.733		
9,150.00	7,532.24	8,104.83	7,833.64	100.99	33.10	-120.80	1,579.85	2,571.63	1,850.41	1,773.02	77.39	23.912		
9,200.00	7,564.34	8,083.93	7,824.17	101.19	33.14	-115.62	1,561.23	2,572.13	1,864.15	1,786.65	77.50	24.055		
9,250.00	7,594.17	8,064.61	7,814.99	101.34	33.18	-111.06	1,544.23	2,572.56	1,877.35	1,799.68	77.67	24.170		
9,300.00	7,621.50	8,042.16	7,803.83	101.45	33.23	-106.96	1,524.76	2,572.99	1,889.85	1,812.04	77.81	24.289		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	8,014.71	7,789.30	101.50	33.28	103.22	1,501.49	2,573.45	1,901.43	1,823.57	77.86	24.422		
9,400.00	7,667.87	7,986.37	7,773.25	101.51	33.33	99.93	1,478.13	2,573.86	1,911.93	1,834.00	77.93	24.534		
9,450.00	7,686.55	7,957.12	7,755.64	101.48	33.38	97.08	1,454.78	2,574.23	1,921.19	1,843.16	78.03	24.621		
9,500.00	7,702.04	7,932.27	7,739.79	101.42	33.42	94.75	1,435.65	2,574.49	1,929.11	1,850.80	78.30	24.636		
9,550.00	7,714.20	7,912.78	7,726.69	101.33	33.45	92.95	1,421.22	2,574.62	1,935.61	1,856.83	78.78	24.569		
9,600.00	7,722.96	7,869.06	7,695.19	101.20	33.50	90.93	1,390.92	2,574.85	1,940.54	1,861.83	78.71	24.654		
9,650.00	7,728.24	7,787.10	7,629.78	101.06	33.56	88.31	1,341.68	2,576.81	1,943.19	1,865.40	77.80	24.978		
9,699.97	7,730.00	7,760.01	7,606.93	100.90	33.57	87.46	1,327.15	2,577.81	1,943.94	1,865.63	78.30	24.825		
9,706.42	7,730.00	7,757.46	7,604.76	100.87	33.57	87.40	1,325.83	2,577.90	1,943.93	1,865.53	78.40	24.795		
9,800.00	7,730.00	7,723.39	7,575.27	100.56	33.57	86.53	1,308.82	2,579.09	1,945.76	1,865.88	79.88	24.360		
9,900.00	7,730.00	7,696.28	7,551.28	100.24	33.56	85.82	1,296.23	2,579.89	1,951.91	1,870.14	81.76	23.873		
10,000.00	7,730.00	7,670.00	7,527.57	99.93	33.56	85.12	1,284.91	2,580.48	1,962.59	1,878.86	83.73	23.440		
10,100.00	7,730.00	7,654.99	7,513.83	99.64	33.55	84.72	1,278.86	2,580.72	1,977.82	1,891.85	85.97	23.005		
10,200.00	7,730.00	7,638.94	7,498.98	99.36	33.54	84.29	1,272.77	2,580.90	1,997.61	1,909.44	88.17	22.655		
10,300.00	7,730.00	7,622.00	7,483.15	99.09	33.53	83.82	1,266.77	2,580.99	2,021.90	1,931.59	90.31	22.388		
10,400.00	7,730.00	7,622.00	7,483.15	98.84	33.53	83.82	1,266.77	2,580.99	2,050.60	1,957.90	92.71	22.119		
10,500.00	7,730.00	7,599.22	7,461.58	98.61	33.51	83.19	1,259.44	2,581.02	2,083.38	1,988.83	94.55	22.035		
10,600.00	7,730.00	7,588.69	7,451.50	98.39	33.50	82.90	1,256.36	2,581.01	2,120.28	2,023.76	96.52	21.967		
10,700.00	7,730.00	7,575.00	7,438.33	98.18	33.49	82.52	1,252.66	2,580.98	2,161.07	2,062.76	98.31	21.981		
10,800.00	7,730.00	7,575.00	7,438.33	97.99	33.49	82.52	1,252.66	2,580.98	2,205.52	2,105.32	100.19	22.012		
10,900.00	7,730.00	7,575.00	7,438.33	97.81	33.49	82.52	1,252.66	2,580.98	2,253.53	2,151.60	101.92	22.110		
11,000.00	7,730.00	7,556.84	7,420.72	97.64	33.46	82.01	1,248.23	2,580.87	2,304.63	2,201.38	103.25	22.321		
11,100.00	7,730.00	7,550.61	7,414.65	97.50	33.46	81.83	1,246.82	2,580.81	2,358.89	2,254.27	104.62	22.548		
11,200.00	7,730.00	7,544.88	7,409.05	97.36	33.45	81.67	1,245.59	2,580.75	2,416.02	2,310.15	105.87	22.821		
11,300.00	7,730.00	7,528.00	7,392.51	97.24	33.43	81.19	1,242.24	2,580.51	2,475.93	2,369.07	106.87	23.168		
11,400.00	7,730.00	7,528.00	7,392.51	97.14	33.43	81.19	1,242.24	2,580.51	2,538.16	2,430.20	107.96	23.511		
11,500.00	7,730.00	7,528.00	7,392.51	97.06	33.43	81.19	1,242.24	2,580.51	2,602.74	2,493.80	108.94	23.893		
11,600.00	7,730.00	7,528.00	7,392.51	96.98	33.43	81.19	1,242.24	2,580.51	2,669.50	2,559.69	109.81	24.310		
11,700.00	7,730.00	7,528.00	7,392.51	96.93	33.43	81.19	1,242.24	2,580.51	2,738.29	2,627.70	110.60	24.759		
11,800.00	7,730.00	7,528.00	7,392.51	96.90	33.43	81.19	1,242.24	2,580.51	2,808.96	2,697.66	111.30	25.239		
11,900.00	7,730.00	7,510.64	7,375.42	96.88	33.40	80.70	1,239.22	2,580.22	2,881.17	2,769.40	111.77	25.779		
12,000.00	7,730.00	7,506.36	7,371.19	96.88	33.39	80.58	1,238.52	2,580.15	2,955.07	2,842.78	112.29	26.316		
12,100.00	7,730.00	7,502.33	7,367.22	96.90	33.38	80.46	1,237.89	2,580.07	3,030.45	2,917.69	112.76	26.875		
12,200.00	7,730.00	7,498.54	7,363.47	96.94	33.38	80.36	1,237.32	2,580.00	3,107.21	2,994.03	113.18	27.455		
12,300.00	7,730.00	7,481.00	7,346.11	97.00	33.35	79.86	1,234.87	2,579.67	3,185.36	3,071.91	113.44	28.078		
12,400.00	7,730.00	7,481.00	7,346.11	97.08	33.35	79.86	1,234.87	2,579.67	3,264.51	3,150.71	113.80	28.686		
12,500.00	7,730.00	7,481.00	7,346.11	97.18	33.35	79.86	1,234.87	2,579.67	3,344.78	3,230.67	114.11	29.311		
12,600.00	7,730.00	7,481.00	7,346.11	97.31	33.35	79.86	1,234.87	2,579.67	3,426.09	3,311.70	114.39	29.950		
12,700.00	7,730.00	7,481.00	7,346.11	97.46	33.35	79.86	1,234.87	2,579.67	3,508.36	3,393.73	114.64	30.604		
12,800.00	7,730.00	7,481.00	7,346.11	97.64	33.35	79.86	1,234.87	2,579.67	3,591.54	3,476.69	114.85	31.271		
12,900.00	7,730.00	7,481.00	7,346.11	97.85	33.35	79.86	1,234.87	2,579.67	3,675.55	3,560.51	115.04	31.950		
13,000.00	7,730.00	7,481.00	7,346.11	98.09	33.35	79.86	1,234.87	2,579.67	3,760.34	3,645.14	115.20	32.641		
13,100.00	7,730.00	7,481.00	7,346.11	98.35	33.35	79.86	1,234.87	2,579.67	3,845.87	3,730.52	115.35	33.342		
13,200.00	7,730.00	7,481.00	7,346.11	98.65	33.35	79.86	1,234.87	2,579.67	3,932.08	3,816.61	115.47	34.053		
13,300.00	7,730.00	7,481.00	7,346.11	98.98	33.35	79.86	1,234.87	2,579.67	4,018.93	3,903.35	115.58	34.772		
13,400.00	7,730.00	7,481.00	7,346.11	99.34	33.35	79.86	1,234.87	2,579.67	4,106.37	3,990.70	115.67	35.501		
13,500.00	7,730.00	7,481.00	7,346.11	99.74	33.35	79.86	1,234.87	2,579.67	4,194.38	4,078.63	115.75	36.237		
13,600.00	7,730.00	7,481.00	7,346.11	100.17	33.35	79.86	1,234.87	2,579.67	4,282.91	4,167.10	115.82	36.981		
13,700.00	7,730.00	7,460.38	7,325.62	100.65	33.31	79.28	1,232.52	2,579.35	4,371.65	4,255.87	115.78	37.758		
13,800.00	7,730.00	7,458.73	7,323.98	101.16	33.30	79.23	1,232.36	2,579.33	4,461.10	4,345.28	115.82	38.517		
13,900.00	7,730.00	7,457.16	7,322.42	101.71	33.30	79.19	1,232.21	2,579.31	4,550.98	4,435.12	115.86	39.281		
14,000.00	7,730.00	7,455.66	7,320.92	102.30	33.30	79.14	1,232.07	2,579.29	4,641.27	4,525.39	115.88	40.051		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,454.22	7,319.49	102.93	33.29	79.10	1,231.93	2,579.28	4,731.95	4,616.04	115.90	40.827		
14,200.00	7,730.00	7,452.85	7,318.12	103.60	33.29	79.06	1,231.81	2,579.26	4,822.99	4,707.07	115.92	41.607		
14,300.00	7,730.00	7,433.00	7,298.33	104.32	33.25	78.50	1,230.32	2,579.14	4,914.62	4,798.76	115.86	42.418		
14,400.00	7,730.00	7,433.00	7,298.33	105.07	33.25	78.50	1,230.32	2,579.14	5,006.31	4,890.43	115.87	43.205		
14,500.00	7,730.00	7,433.00	7,298.33	105.86	33.25	78.50	1,230.32	2,579.14	5,098.30	4,982.42	115.88	43.996		
14,600.00	7,730.00	7,433.00	7,298.33	106.70	33.25	78.50	1,230.32	2,579.14	5,190.60	5,074.72	115.88	44.791		
14,700.00	7,730.00	7,433.00	7,298.33	107.57	33.25	78.50	1,230.32	2,579.14	5,283.17	5,167.29	115.88	45.590		
14,800.00	7,730.00	7,433.00	7,298.33	108.48	33.25	78.50	1,230.32	2,579.14	5,376.02	5,260.14	115.88	46.393		
14,900.00	7,730.00	7,433.00	7,298.33	109.43	33.25	78.50	1,230.32	2,579.14	5,469.11	5,353.24	115.87	47.199		
15,000.00	7,730.00	7,433.00	7,298.33	110.42	33.25	78.50	1,230.32	2,579.14	5,562.44	5,446.58	115.87	48.007		
15,100.00	7,730.00	7,433.00	7,298.33	111.43	33.25	78.50	1,230.32	2,579.14	5,656.01	5,540.15	115.86	48.819		
15,200.00	7,730.00	7,433.00	7,298.33	112.49	33.25	78.50	1,230.32	2,579.14	5,749.78	5,633.94	115.84	49.634		
15,300.00	7,730.00	7,433.00	7,298.33	113.57	33.25	78.50	1,230.32	2,579.14	5,843.77	5,727.94	115.83	50.451		
15,400.00	7,730.00	7,433.00	7,298.33	114.68	33.25	78.50	1,230.32	2,579.14	5,937.95	5,822.13	115.82	51.271		
15,500.00	7,730.00	7,433.00	7,298.33	115.82	33.25	78.50	1,230.32	2,579.14	6,032.32	5,916.52	115.80	52.093		
15,600.00	7,730.00	7,433.00	7,298.33	116.99	33.25	78.50	1,230.32	2,579.14	6,126.87	6,011.08	115.78	52.917		
15,700.00	7,730.00	7,433.00	7,298.33	118.19	33.25	78.50	1,230.32	2,579.14	6,221.58	6,105.82	115.76	53.744		
15,800.00	7,730.00	7,433.00	7,298.33	119.41	33.25	78.50	1,230.32	2,579.14	6,316.46	6,200.72	115.75	54.572		
15,900.00	7,730.00	7,433.00	7,298.33	120.65	33.25	78.50	1,230.32	2,579.14	6,411.50	6,295.77	115.73	55.402		
16,000.00	7,730.00	7,433.00	7,298.33	121.91	33.25	78.50	1,230.32	2,579.14	6,506.68	6,390.98	115.71	56.234		
16,100.00	7,730.00	7,433.00	7,298.33	123.20	33.25	78.50	1,230.32	2,579.14	6,602.01	6,486.32	115.69	57.068		
16,200.00	7,730.00	7,433.00	7,298.33	124.50	33.25	78.50	1,230.32	2,579.14	6,697.47	6,581.81	115.67	57.903		
16,300.00	7,730.00	7,433.00	7,298.33	125.82	33.25	78.50	1,230.32	2,579.14	6,793.07	6,677.42	115.65	58.740		
16,400.00	7,730.00	7,433.00	7,298.33	127.16	33.25	78.50	1,230.32	2,579.14	6,888.79	6,773.16	115.63	59.578		
16,500.00	7,730.00	7,433.00	7,298.33	128.52	33.25	78.50	1,230.32	2,579.14	6,984.63	6,869.02	115.61	60.417		
16,600.00	7,730.00	7,433.00	7,298.33	129.89	33.25	78.50	1,230.32	2,579.14	7,080.58	6,965.00	115.59	61.258		
16,700.00	7,730.00	7,433.00	7,298.33	131.27	33.25	78.50	1,230.32	2,579.14	7,176.65	7,061.08	115.57	62.100		
16,800.00	7,730.00	7,433.00	7,298.33	132.67	33.25	78.50	1,230.32	2,579.14	7,272.82	7,157.27	115.55	62.943		
16,900.00	7,730.00	7,433.00	7,298.33	134.09	33.25	78.50	1,230.32	2,579.14	7,369.09	7,253.56	115.53	63.786		
17,000.00	7,730.00	7,433.00	7,298.33	135.51	33.25	78.50	1,230.32	2,579.14	7,465.46	7,349.95	115.51	64.631		
17,100.00	7,730.00	7,433.00	7,298.33	136.95	33.25	78.50	1,230.32	2,579.14	7,561.93	7,446.44	115.49	65.477		
17,200.00	7,730.00	7,433.00	7,298.33	138.40	33.25	78.50	1,230.32	2,579.14	7,658.48	7,543.01	115.47	66.324		
17,300.00	7,730.00	7,433.00	7,298.33	139.85	33.25	78.50	1,230.32	2,579.14	7,755.12	7,639.67	115.45	67.171		
17,400.00	7,730.00	7,433.00	7,298.33	141.32	33.25	78.50	1,230.32	2,579.14	7,851.85	7,736.41	115.44	68.019		
17,500.00	7,730.00	7,433.00	7,298.33	142.80	33.25	78.50	1,230.32	2,579.14	7,948.66	7,833.24	115.42	68.868		
17,600.00	7,730.00	7,433.00	7,298.33	144.28	33.25	78.50	1,230.32	2,579.14	8,045.54	7,930.14	115.40	69.717		
17,700.00	7,730.00	7,433.00	7,298.33	145.78	33.25	78.50	1,230.32	2,579.14	8,142.51	8,027.12	115.39	70.567		
17,800.00	7,730.00	7,433.00	7,298.33	147.28	33.25	78.50	1,230.32	2,579.14	8,239.54	8,124.17	115.37	71.417		
17,900.00	7,730.00	7,433.00	7,298.33	148.79	33.25	78.50	1,230.32	2,579.14	8,336.64	8,221.29	115.36	72.268		
18,000.00	7,730.00	7,433.00	7,298.33	150.31	33.25	78.50	1,230.32	2,579.14	8,433.82	8,318.47	115.34	73.120		
18,100.00	7,730.00	7,433.00	7,298.33	151.83	33.25	78.50	1,230.32	2,579.14	8,531.05	8,415.72	115.33	73.971		
18,200.00	7,730.00	7,433.00	7,298.33	153.37	33.25	78.50	1,230.32	2,579.14	8,628.35	8,513.04	115.32	74.823		
18,300.00	7,730.00	7,433.00	7,298.33	154.90	33.25	78.50	1,230.32	2,579.14	8,725.71	8,610.41	115.30	75.676		
18,400.00	7,730.00	7,433.00	7,298.33	156.45	33.25	78.50	1,230.32	2,579.14	8,823.14	8,707.84	115.29	76.529		
18,500.00	7,730.00	7,433.00	7,298.33	158.00	33.25	78.50	1,230.32	2,579.14	8,920.61	8,805.33	115.28	77.382		
18,600.00	7,730.00	7,433.00	7,298.33	159.55	33.25	78.50	1,230.32	2,579.14	9,018.15	8,902.88	115.27	78.235		
18,700.00	7,730.00	7,433.00	7,298.33	161.11	33.25	78.50	1,230.32	2,579.14	9,115.73	9,000.47	115.26	79.088		
18,800.00	7,730.00	7,433.00	7,298.33	162.68	33.25	78.50	1,230.32	2,579.14	9,213.37	9,098.12	115.25	79.942		
18,900.00	7,730.00	7,433.00	7,298.33	164.25	33.25	78.50	1,230.32	2,579.14	9,311.06	9,195.82	115.24	80.796		
19,000.00	7,730.00	7,433.00	7,298.33	165.83	33.25	78.50	1,230.32	2,579.14	9,408.79	9,293.56	115.23	81.649		
19,100.00	7,730.00	7,433.00	7,298.33	167.41	33.25	78.50	1,230.32	2,579.14	9,506.58	9,391.35	115.23	82.503		
19,200.00	7,730.00	7,433.00	7,298.33	168.99	33.25	78.50	1,230.32	2,579.14	9,604.41	9,489.19	115.22	83.357		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		25-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,433.00	7,298.33	170.58	33.25	78.50	1,230.32	2,579.14	9,702.28	9,587.07	115.21	84.211	
19,400.00	7,730.00	7,433.00	7,298.33	172.17	33.25	78.50	1,230.32	2,579.14	9,800.20	9,684.99	115.21	85.065	
19,430.54	7,730.00	7,433.00	7,298.33	172.66	33.25	78.50	1,230.32	2,579.14	9,830.11	9,714.90	115.21	85.326	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	58.08	2,113.11	3,392.22	3,996.72					
100.00	100.00	52.08	52.08	0.13	0.10	58.08	2,113.11	3,392.26	3,996.60	3,996.37	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.08	2,113.17	3,392.78	3,997.23	3,996.38	0.85	4,690.060		
300.00	300.00	195.93	195.92	0.85	0.61	58.09	2,113.46	3,393.72	3,998.57	3,997.10	1.47	2,728.776		
400.00	400.00	291.38	291.36	1.21	0.96	58.09	2,114.31	3,395.28	4,000.42	3,998.25	2.17	1,847.552		
500.00	500.00	446.01	445.97	1.57	1.51	58.09	2,114.98	3,397.03	4,001.66	3,998.58	3.07	1,301.755		
600.00	599.98	569.61	569.57	1.92	1.93	-7.26	2,114.79	3,397.16	3,999.91	3,996.05	3.85	1,038.471		
700.00	699.84	681.24	681.20	2.28	2.31	-7.29	2,115.04	3,396.72	3,994.50	3,989.92	4.58	871.312		
800.00	799.45	804.66	804.62	2.64	2.73	-7.35	2,115.04	3,395.58	3,985.08	3,979.71	5.36	742.862		
900.00	898.70	883.21	883.16	3.02	3.00	-7.40	2,114.89	3,394.83	3,972.11	3,966.11	6.00	662.399		
1,000.00	997.47	976.86	976.81	3.41	3.33	-7.48	2,115.21	3,394.31	3,956.30	3,949.61	6.69	591.679		
1,100.00	1,095.62	1,108.84	1,108.78	3.84	3.79	-7.60	2,115.68	3,392.73	3,936.57	3,929.06	7.51	523.841		
1,200.00	1,193.06	1,179.79	1,179.72	4.29	4.04	-7.70	2,115.49	3,391.95	3,913.26	3,905.12	8.13	481.125		
1,300.00	1,289.64	1,951.34	1,945.11	4.78	6.88	-7.97	2,059.80	3,334.32	3,871.56	3,860.46	11.10	348.686		
1,400.00	1,385.27	2,018.00	2,010.36	5.32	7.16	-8.03	2,047.60	3,328.24	3,826.24	3,814.53	11.71	326.749		
1,500.00	1,479.82	2,144.79	2,134.01	5.90	7.70	-8.01	2,021.67	3,317.54	3,777.25	3,764.73	12.52	301.613		
1,600.00	1,573.17	2,206.54	2,194.22	6.53	7.96	-8.09	2,008.96	3,312.48	3,725.50	3,712.38	13.13	283.805		
1,700.00	1,665.21	2,305.81	2,291.00	7.23	8.40	-8.12	1,988.37	3,304.50	3,670.90	3,657.04	13.86	264.864		
1,800.00	1,755.84	2,364.36	2,348.13	7.98	8.67	-8.24	1,976.43	3,299.81	3,613.58	3,599.12	14.46	249.845		
1,900.00	1,844.94	2,419.99	2,402.51	8.80	8.92	-8.39	1,965.56	3,295.37	3,553.93	3,538.87	15.06	235.980		
2,000.00	1,932.39	2,471.34	2,452.79	9.68	9.15	-8.57	1,955.94	3,291.49	3,492.14	3,476.49	15.65	223.183		
2,100.00	2,018.11	2,521.92	2,502.42	10.63	9.37	-8.78	1,946.82	3,287.88	3,428.26	3,412.02	16.23	211.176		
2,200.00	2,101.97	2,573.00	2,552.61	11.65	9.60	-9.02	1,937.99	3,284.45	3,362.33	3,345.51	16.83	199.838		
2,300.00	2,183.88	2,618.90	2,597.79	12.74	9.80	-9.30	1,930.42	3,281.55	3,294.41	3,277.01	17.40	189.308		
2,400.00	2,263.74	2,665.22	2,643.46	13.90	10.00	-9.62	1,923.18	3,278.80	3,224.56	3,206.58	17.98	179.310		
2,431.61	2,288.54	2,679.68	2,657.73	14.29	10.06	-9.73	1,921.00	3,277.97	3,202.09	3,183.92	18.17	176.227		
2,500.00	2,341.97	2,711.04	2,688.70	15.13	10.20	-9.74	1,916.41	3,276.24	3,153.39	3,134.82	18.56	169.857		
2,600.00	2,420.08	2,760.00	2,737.12	16.37	10.41	-9.76	1,909.60	3,273.69	3,082.64	3,063.48	19.16	160.905		
2,700.00	2,498.20	2,873.63	2,849.56	17.63	10.89	-9.84	1,894.78	3,266.71	3,011.70	2,991.79	19.91	151.245		
2,800.00	2,576.32	2,979.06	2,953.73	18.89	11.35	-9.95	1,880.81	3,258.44	2,939.58	2,918.94	20.64	142.426		
2,900.00	2,654.43	3,048.49	3,022.21	20.17	11.66	-10.00	1,870.63	3,253.19	2,867.16	2,845.87	21.29	134.667		
3,000.00	2,732.55	3,102.35	3,075.33	21.45	11.89	-10.03	1,862.55	3,249.44	2,794.96	2,773.04	21.92	127.501		
3,100.00	2,810.67	3,151.68	3,124.01	22.74	12.11	-10.05	1,855.31	3,246.24	2,723.18	2,700.63	22.55	120.748		
3,200.00	2,888.78	3,196.44	3,168.27	24.03	12.30	-10.09	1,849.21	3,243.51	2,652.02	2,628.83	23.19	114.369		
3,300.00	2,966.90	3,300.00	3,262.04	25.33	12.75	-10.19	1,836.93	3,237.24	2,580.79	2,556.86	23.93	107.838		
3,400.00	3,045.02	3,443.51	3,412.24	26.63	13.39	-10.42	1,816.17	3,223.12	2,507.24	2,482.60	24.64	101.741		
3,500.00	3,123.13	3,497.27	3,465.22	27.94	13.63	-10.53	1,808.97	3,217.58	2,433.70	2,408.40	25.30	96.201		
3,600.00	3,201.25	3,594.87	3,561.38	29.24	14.07	-10.73	1,795.76	3,207.36	2,360.06	2,334.09	25.97	90.874		
3,700.00	3,279.37	3,664.69	3,630.06	30.55	14.39	-10.88	1,785.95	3,199.56	2,285.79	2,259.15	26.64	85.819		
3,800.00	3,357.49	3,753.14	3,717.01	31.86	14.80	-11.07	1,773.13	3,189.60	2,211.35	2,184.06	27.29	81.024		
3,900.00	3,435.60	3,832.37	3,794.65	33.18	15.17	-11.21	1,760.17	3,180.56	2,136.10	2,108.15	27.95	76.433		
4,000.00	3,513.72	3,886.00	3,847.15	34.49	15.43	-11.29	1,750.91	3,174.69	2,060.84	2,032.21	28.63	71.980		
4,100.00	3,591.84	3,938.34	3,898.43	35.81	15.68	-11.37	1,741.90	3,169.35	1,986.01	1,956.69	29.33	67.716		
4,200.00	3,669.95	3,987.05	3,946.25	37.12	15.91	-11.45	1,733.85	3,164.83	1,911.92	1,881.87	30.05	63.628		
4,300.00	3,748.07	4,060.22	4,018.07	38.44	16.26	-11.54	1,721.37	3,158.50	1,837.99	1,807.27	30.73	59.818		
4,400.00	3,826.19	4,109.84	4,066.74	39.76	16.49	-11.59	1,712.55	3,154.52	1,764.21	1,732.74	31.47	56.062		
4,500.00	3,904.30	4,154.69	4,110.82	41.08	16.70	-11.63	1,704.85	3,151.48	1,691.33	1,659.08	32.25	52.451		
4,600.00	3,982.42	4,227.90	4,182.89	42.40	17.03	-11.72	1,692.86	3,146.82	1,619.00	1,586.06	32.94	49.148		
4,700.00	4,060.54	4,352.07	4,304.96	43.72	17.61	-12.01	1,672.98	3,135.86	1,545.54	1,512.14	33.40	46.272		
4,800.00	4,138.66	4,434.71	4,385.81	45.05	18.02	-12.24	1,658.57	3,126.70	1,470.12	1,436.12	34.01	43.230		
4,900.00	4,216.77	4,495.30	4,445.01	46.37	18.31	-12.40	1,647.57	3,119.92	1,394.40	1,359.66	34.74	40.143		
5,000.00	4,294.89	4,554.41	4,502.86	47.69	18.60	-12.59	1,637.25	3,113.50	1,319.11	1,283.62	35.49	37.166		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,640.04	4,586.48	49.02	19.03	-12.85	1,621.36	3,104.16	1,243.40	1,207.36	36.03	34.506		
5,200.00	4,451.12	4,691.84	4,637.01	50.34	19.29	-13.01	1,611.44	3,098.57	1,167.53	1,130.66	36.87	31.665		
5,300.00	4,529.24	4,747.53	4,691.50	51.67	19.56	-13.23	1,601.42	3,092.85	1,092.39	1,054.69	37.71	28.969		
5,400.00	4,607.36	4,814.83	4,757.44	52.99	19.89	-13.59	1,590.07	3,085.65	1,017.46	979.02	38.45	26.463		
5,500.00	4,685.47	4,889.67	4,830.72	54.32	20.26	-14.09	1,577.39	3,077.28	942.27	903.17	39.10	24.099		
5,600.00	4,763.59	4,959.00	4,898.36	55.64	20.60	-14.49	1,564.19	3,069.79	866.48	826.68	39.80	21.770		
5,700.00	4,841.71	5,023.12	4,960.89	56.97	20.93	-14.90	1,551.68	3,063.05	790.71	750.10	40.60	19.474		
5,800.00	4,919.83	5,084.05	5,020.33	58.30	21.23	-15.35	1,539.77	3,056.95	715.20	673.69	41.50	17.232		
5,900.00	4,997.94	5,145.71	5,080.54	59.62	21.54	-15.88	1,527.80	3,051.14	640.09	597.65	42.45	15.080		
6,000.00	5,076.06	5,207.97	5,141.42	60.95	21.85	-16.56	1,516.03	3,045.54	565.47	522.00	43.46	13.011		
6,100.00	5,154.18	5,270.69	5,202.83	62.28	22.16	-17.43	1,504.42	3,040.30	491.38	446.81	44.58	11.024		
6,200.00	5,232.29	5,334.88	5,265.74	63.61	22.47	-18.56	1,492.61	3,035.50	417.90	372.11	45.79	9.126		
6,300.00	5,310.41	5,400.84	5,330.41	64.93	22.79	-20.08	1,480.39	3,031.19	344.99	297.84	47.14	7.318		
6,400.00	5,388.53	5,471.32	5,399.50	66.26	23.13	-22.54	1,467.21	3,026.50	272.11	223.52	48.59	5.600		
6,500.00	5,466.64	5,537.61	5,464.45	67.59	23.45	-26.59	1,454.83	3,021.84	199.46	148.28	51.18	3.897		
6,600.00	5,544.76	5,604.58	5,530.18	68.92	23.77	-34.71	1,442.65	3,017.78	128.58	72.36	56.22	2.287		
6,700.00	5,622.88	5,673.01	5,597.42	70.25	24.09	-57.95	1,430.60	3,013.68	62.83	-9.26	72.09	0.872 Level 1		
6,769.08	5,676.84	5,720.39	5,644.00	71.17	24.31	-100.14	1,422.48	3,010.75	37.80	-55.86	93.67	0.404 Level 1, CC, ES, SF		
6,800.00	5,701.00	5,741.62	5,664.88	71.58	24.41	-122.28	1,418.91	3,009.41	43.97	-39.02	82.98	0.530 Level 1		
6,900.00	5,779.11	5,809.18	5,731.35	72.91	24.73	-159.53	1,407.67	3,004.86	102.46	47.78	54.68	1.874		
7,000.00	5,857.23	5,873.58	5,794.55	74.23	25.04	-171.03	1,396.63	2,999.25	173.51	123.56	49.96	3.473		
7,100.00	5,935.35	5,938.00	5,857.63	75.56	25.36	-176.22	1,385.27	2,992.79	247.26	197.98	49.28	5.017		
7,200.00	6,013.46	6,006.52	5,924.69	76.89	25.69	-179.25	1,373.15	2,985.71	321.76	271.97	49.80	6.462		
7,300.00	6,091.58	6,080.30	5,997.14	78.22	26.04	-178.83	1,360.91	2,979.00	395.43	344.61	50.82	7.781		
7,400.00	6,169.70	6,157.18	6,072.88	79.55	26.41	-177.58	1,349.13	2,973.12	467.93	415.97	51.96	9.006		
7,500.00	6,247.81	6,219.64	6,134.47	80.88	26.70	-176.89	1,339.89	2,968.26	540.39	488.03	52.36	10.320		
7,600.00	6,325.93	6,286.02	6,199.86	82.21	27.00	-176.34	1,330.00	2,962.58	613.40	560.41	52.99	11.575		
7,700.00	6,404.05	6,358.31	6,271.01	83.54	27.34	-175.79	1,318.70	2,956.73	686.40	632.53	53.87	12.741		
7,800.00	6,482.17	6,445.29	6,356.86	84.87	27.74	-175.31	1,305.98	2,950.88	758.25	703.01	55.24	13.725		
7,900.00	6,560.28	6,532.04	6,442.74	86.20	28.11	-174.96	1,294.58	2,946.48	828.59	772.09	56.50	14.666		
8,000.00	6,638.40	6,623.13	6,533.16	87.53	28.48	-174.73	1,284.09	2,943.22	897.42	839.63	57.79	15.530		
8,100.00	6,716.52	6,716.91	6,626.46	88.86	28.85	-174.58	1,274.74	2,941.34	964.69	905.63	59.06	16.333		
8,200.00	6,794.63	6,794.63	6,713.78	90.20	29.17	-174.50	1,267.23	2,940.59	1,030.70	970.59	60.12	17.145		
8,300.00	6,872.75	6,881.61	6,790.66	91.53	29.44	-174.54	1,262.18	2,939.73	1,096.15	1,035.28	60.87	18.007		
8,400.00	6,950.87	6,977.05	6,886.01	92.86	29.77	-174.76	1,258.56	2,937.94	1,161.14	1,099.16	61.98	18.733		
8,500.00	7,028.98	7,062.87	6,971.81	94.19	30.04	-175.00	1,257.03	2,936.97	1,224.85	1,162.00	62.85	19.489		
8,600.00	7,107.10	7,148.52	7,057.46	95.52	30.30	-175.25	1,256.25	2,936.04	1,288.23	1,224.54	63.69	20.227		
8,647.91	7,144.53	7,208.30	7,117.22	96.16	30.47	-175.46	1,256.73	2,935.45	1,318.34	1,253.95	64.40	20.471		
8,650.00	7,146.16	7,497.19	7,394.74	96.18	30.87	-178.88	1,328.78	2,934.27	1,319.46	1,251.93	67.53	19.539		
8,700.00	7,185.66	8,187.39	7,771.26	96.84	30.50	-166.20	1,869.77	2,944.90	1,336.18	1,257.08	79.10	16.892		
8,750.00	7,225.78	8,201.30	7,772.47	97.47	30.51	-173.04	1,883.62	2,945.31	1,344.21	1,263.89	80.32	16.736		
8,800.00	7,266.21	8,208.86	7,773.07	98.08	30.51	-179.44	1,891.15	2,945.51	1,353.96	1,272.63	81.34	16.647		
8,850.00	7,306.63	8,210.72	7,773.21	98.64	30.51	-171.49	1,893.02	2,945.56	1,365.43	1,283.27	82.16	16.619		
8,900.00	7,346.75	8,207.56	7,772.97	99.17	30.51	-163.39	1,889.86	2,945.48	1,378.48	1,295.68	82.80	16.649		
8,950.00	7,386.25	8,199.97	7,772.36	99.64	30.50	-155.38	1,882.30	2,945.27	1,392.96	1,309.69	83.27	16.728		
9,000.00	7,424.84	8,188.52	7,771.36	100.06	30.50	-147.65	1,870.89	2,944.93	1,408.64	1,325.03	83.61	16.848		
9,050.00	7,462.22	8,173.83	7,769.93	100.42	30.50	-140.33	1,856.29	2,944.47	1,425.28	1,341.45	83.83	17.001		
9,100.00	7,498.11	8,157.92	7,768.09	100.74	30.51	-133.53	1,840.50	2,943.88	1,442.62	1,358.59	84.03	17.167		
9,150.00	7,532.24	8,140.51	7,765.64	100.99	30.51	-127.26	1,823.28	2,943.11	1,460.42	1,376.21	84.21	17.343		
9,200.00	7,564.34	8,102.19	7,758.82	101.19	30.52	-120.83	1,785.61	2,941.24	1,478.32	1,394.73	83.59	17.684		
9,250.00	7,594.17	8,031.37	7,741.09	101.34	30.57	-113.90	1,717.14	2,938.61	1,495.51	1,413.72	81.80	18.284		
9,300.00	7,621.50	7,990.82	7,727.00	101.45	30.60	-108.64	1,679.15	2,937.47	1,511.74	1,430.51	81.23	18.610		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,969.25	7,718.31	101.50	30.62	104.54	1,659.42	2,936.82	1,527.23	1,445.79	81.44	18.752		
9,400.00	7,667.87	7,953.51	7,711.49	101.51	30.63	101.10	1,645.24	2,936.29	1,541.93	1,459.99	81.93	18.819		
9,450.00	7,686.55	7,886.17	7,678.44	101.48	30.69	96.56	1,586.64	2,934.22	1,555.31	1,474.72	80.59	19.300		
9,500.00	7,702.04	7,845.75	7,656.19	101.42	30.73	93.34	1,552.91	2,933.58	1,566.98	1,486.67	80.31	19.511		
9,550.00	7,714.20	7,819.82	7,641.07	101.33	30.75	90.99	1,531.84	2,933.20	1,577.16	1,496.51	80.65	19.555		
9,600.00	7,722.96	7,790.99	7,623.51	101.20	30.78	88.98	1,508.99	2,932.71	1,585.80	1,504.83	80.97	19.585		
9,650.00	7,728.24	7,758.04	7,602.41	101.06	30.81	87.26	1,483.68	2,932.20	1,592.69	1,511.47	81.22	19.610		
9,699.97	7,730.00	7,689.81	7,554.63	100.90	30.86	85.02	1,435.04	2,932.63	1,596.97	1,516.68	80.30	19.889		
9,800.00	7,730.00	7,643.49	7,518.97	100.56	30.88	83.74	1,405.51	2,933.47	1,605.66	1,523.81	81.85	19.618		
9,900.00	7,730.00	7,602.79	7,486.06	100.24	30.89	82.57	1,381.60	2,934.19	1,618.78	1,535.13	83.66	19.351		
10,000.00	7,730.00	7,567.00	7,456.03	99.93	30.89	81.50	1,362.14	2,934.69	1,636.72	1,551.07	85.66	19.108		
10,100.00	7,730.00	7,550.29	7,441.68	99.64	30.89	80.99	1,353.59	2,934.80	1,659.62	1,571.38	88.24	18.809		
10,200.00	7,730.00	7,519.00	7,414.24	99.36	30.88	80.03	1,338.55	2,934.59	1,687.72	1,597.44	90.28	18.694		
10,300.00	7,730.00	7,519.00	7,414.24	99.09	30.88	80.03	1,338.55	2,934.59	1,720.44	1,627.31	93.13	18.474		
10,400.00	7,730.00	7,489.04	7,387.39	98.84	30.87	79.09	1,325.27	2,934.16	1,757.76	1,662.80	94.96	18.511		
10,500.00	7,730.00	7,472.00	7,371.90	98.61	30.87	78.55	1,318.16	2,933.92	1,799.35	1,702.37	96.99	18.552		
10,600.00	7,730.00	7,443.05	7,345.27	98.39	30.85	77.63	1,306.81	2,933.64	1,844.90	1,746.34	98.56	18.718		
10,700.00	7,730.00	7,425.00	7,328.49	98.18	30.84	77.06	1,300.18	2,933.57	1,894.22	1,793.96	100.25	18.895		
10,800.00	7,730.00	7,408.06	7,312.60	97.99	30.82	76.51	1,294.32	2,933.56	1,947.10	1,845.30	101.80	19.128		
10,900.00	7,730.00	7,394.97	7,300.21	97.81	30.81	76.09	1,290.07	2,933.59	2,003.35	1,900.09	103.26	19.401		
11,000.00	7,730.00	7,378.00	7,284.04	97.64	30.79	75.54	1,284.92	2,933.67	2,062.74	1,958.25	104.49	19.740		
11,100.00	7,730.00	7,378.00	7,284.04	97.50	30.79	75.54	1,284.92	2,933.67	2,125.02	2,019.13	105.88	20.069		
11,200.00	7,730.00	7,363.31	7,269.95	97.36	30.77	75.06	1,280.78	2,933.77	2,189.94	2,083.06	106.87	20.491		
11,300.00	7,730.00	7,354.62	7,261.58	97.24	30.76	74.78	1,278.46	2,933.83	2,257.33	2,149.49	107.84	20.933		
11,400.00	7,730.00	7,346.62	7,253.84	97.14	30.75	74.52	1,276.41	2,933.88	2,326.97	2,218.28	108.70	21.408		
11,500.00	7,730.00	7,331.00	7,238.68	97.06	30.73	74.01	1,272.66	2,934.00	2,398.73	2,289.39	109.35	21.937		
11,600.00	7,730.00	7,331.00	7,238.68	96.98	30.73	74.01	1,272.66	2,934.00	2,472.30	2,362.18	110.11	22.452		
11,700.00	7,730.00	7,331.00	7,238.68	96.93	30.73	74.01	1,272.66	2,934.00	2,547.66	2,436.87	110.79	22.996		
11,800.00	7,730.00	7,331.00	7,238.68	96.90	30.73	74.01	1,272.66	2,934.00	2,624.67	2,513.29	111.38	23.566		
11,900.00	7,730.00	7,331.00	7,238.68	96.88	30.73	74.01	1,272.66	2,934.00	2,703.19	2,591.30	111.89	24.159		
12,000.00	7,730.00	7,312.79	7,220.89	96.88	30.70	73.42	1,268.74	2,934.15	2,782.79	2,670.64	112.15	24.812		
12,100.00	7,730.00	7,308.77	7,216.96	96.90	30.69	73.29	1,267.96	2,934.20	2,863.81	2,751.29	112.52	25.452		
12,200.00	7,730.00	7,305.03	7,213.28	96.94	30.69	73.16	1,267.25	2,934.24	2,945.97	2,833.13	112.84	26.108		
12,300.00	7,730.00	7,284.00	7,192.55	97.00	30.65	72.48	1,263.73	2,934.51	3,029.44	2,916.48	112.96	26.818		
12,400.00	7,730.00	7,284.00	7,192.55	97.08	30.65	72.48	1,263.73	2,934.51	3,113.53	3,000.29	113.24	27.494		
12,500.00	7,730.00	7,284.00	7,192.55	97.18	30.65	72.48	1,263.73	2,934.51	3,198.53	3,085.05	113.48	28.185		
12,600.00	7,730.00	7,284.00	7,192.55	97.31	30.65	72.48	1,263.73	2,934.51	3,284.38	3,170.68	113.69	28.888		
12,700.00	7,730.00	7,284.00	7,192.55	97.46	30.65	72.48	1,263.73	2,934.51	3,371.00	3,257.13	113.88	29.603		
12,800.00	7,730.00	7,284.00	7,192.55	97.64	30.65	72.48	1,263.73	2,934.51	3,458.35	3,344.32	114.03	30.328		
12,900.00	7,730.00	7,284.00	7,192.55	97.85	30.65	72.48	1,263.73	2,934.51	3,546.37	3,432.20	114.17	31.062		
13,000.00	7,730.00	7,284.00	7,192.55	98.09	30.65	72.48	1,263.73	2,934.51	3,635.01	3,520.72	114.29	31.806		
13,100.00	7,730.00	7,284.00	7,192.55	98.35	30.65	72.48	1,263.73	2,934.51	3,724.22	3,609.83	114.39	32.558		
13,200.00	7,730.00	7,284.00	7,192.55	98.65	30.65	72.48	1,263.73	2,934.51	3,813.97	3,699.50	114.47	33.318		
13,300.00	7,730.00	7,284.00	7,192.55	98.98	30.65	72.48	1,263.73	2,934.51	3,904.21	3,789.67	114.54	34.085		
13,400.00	7,730.00	7,284.00	7,192.55	99.34	30.65	72.48	1,263.73	2,934.51	3,994.92	3,880.32	114.60	34.859		
13,500.00	7,730.00	7,284.00	7,192.55	99.74	30.65	72.48	1,263.73	2,934.51	4,086.07	3,971.42	114.65	35.638		
13,600.00	7,730.00	7,284.00	7,192.55	100.17	30.65	72.48	1,263.73	2,934.51	4,177.62	4,062.92	114.69	36.424		
13,700.00	7,730.00	7,284.00	7,192.55	100.65	30.65	72.48	1,263.73	2,934.51	4,269.55	4,154.82	114.73	37.215		
13,800.00	7,730.00	7,284.00	7,192.55	101.16	30.65	72.48	1,263.73	2,934.51	4,361.83	4,247.08	114.75	38.010		
13,900.00	7,730.00	7,284.00	7,192.55	101.71	30.65	72.48	1,263.73	2,934.51	4,454.45	4,339.67	114.77	38.811		
14,000.00	7,730.00	7,284.00	7,192.55	102.30	30.65	72.48	1,263.73	2,934.51	4,547.38	4,432.59	114.79	39.615		
14,100.00	7,730.00	7,284.00	7,192.55	102.93	30.65	72.48	1,263.73	2,934.51	4,640.60	4,525.80	114.80	40.424		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 25-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,284.00	7,192.55	103.60	30.65	72.48	1,263.73	2,934.51	4,734.10	4,619.30	114.80	41.236		
14,300.00	7,730.00	7,284.00	7,192.55	104.32	30.65	72.48	1,263.73	2,934.51	4,827.86	4,713.06	114.81	42.052		
14,400.00	7,730.00	7,284.00	7,192.55	105.07	30.65	72.48	1,263.73	2,934.51	4,921.87	4,807.06	114.81	42.872		
14,500.00	7,730.00	7,284.00	7,192.55	105.86	30.65	72.48	1,263.73	2,934.51	5,016.11	4,901.31	114.80	43.694		
14,600.00	7,730.00	7,284.00	7,192.55	106.70	30.65	72.48	1,263.73	2,934.51	5,110.56	4,995.77	114.79	44.519		
14,700.00	7,730.00	7,284.00	7,192.55	107.57	30.65	72.48	1,263.73	2,934.51	5,205.23	5,090.44	114.79	45.347		
14,800.00	7,730.00	7,284.00	7,192.55	108.48	30.65	72.48	1,263.73	2,934.51	5,300.09	5,185.31	114.78	46.178		
14,900.00	7,730.00	7,284.00	7,192.55	109.43	30.65	72.48	1,263.73	2,934.51	5,395.13	5,280.37	114.76	47.011		
15,000.00	7,730.00	7,284.00	7,192.55	110.42	30.65	72.48	1,263.73	2,934.51	5,490.36	5,375.60	114.75	47.846		
15,100.00	7,730.00	7,284.00	7,192.55	111.43	30.65	72.48	1,263.73	2,934.51	5,585.74	5,471.01	114.74	48.683		
15,200.00	7,730.00	7,284.00	7,192.55	112.49	30.65	72.48	1,263.73	2,934.51	5,681.29	5,566.57	114.72	49.522		
15,300.00	7,730.00	7,284.00	7,192.55	113.57	30.65	72.48	1,263.73	2,934.51	5,776.99	5,662.28	114.71	50.363		
15,400.00	7,730.00	7,284.00	7,192.55	114.68	30.65	72.48	1,263.73	2,934.51	5,872.83	5,758.14	114.69	51.206		
15,500.00	7,730.00	7,284.00	7,192.55	115.82	30.65	72.48	1,263.73	2,934.51	5,968.81	5,854.14	114.67	52.051		
15,600.00	7,730.00	7,284.00	7,192.55	116.99	30.65	72.48	1,263.73	2,934.51	6,064.92	5,950.26	114.66	52.897		
15,700.00	7,730.00	7,284.00	7,192.55	118.19	30.65	72.48	1,263.73	2,934.51	6,161.15	6,046.51	114.64	53.744		
15,800.00	7,730.00	7,284.00	7,192.55	119.41	30.65	72.48	1,263.73	2,934.51	6,257.50	6,142.88	114.62	54.593		
15,900.00	7,730.00	7,241.30	7,150.16	120.65	30.55	71.09	1,258.72	2,935.07	6,352.47	6,237.99	114.47	55.492		
16,000.00	7,730.00	7,240.49	7,149.36	121.91	30.55	71.06	1,258.65	2,935.08	6,448.98	6,334.53	114.46	56.344		
16,100.00	7,730.00	7,239.71	7,148.58	123.20	30.54	71.04	1,258.58	2,935.09	6,545.60	6,431.16	114.44	57.197		
16,200.00	7,730.00	7,238.95	7,147.82	124.50	30.54	71.01	1,258.52	2,935.10	6,642.32	6,527.90	114.42	58.051		
16,300.00	7,730.00	7,238.21	7,147.08	125.82	30.54	70.99	1,258.46	2,935.11	6,739.13	6,624.73	114.40	58.906		
16,400.00	7,730.00	7,237.49	7,146.36	127.16	30.54	70.97	1,258.41	2,935.12	6,836.03	6,721.65	114.39	59.762		
16,500.00	7,730.00	7,236.79	7,145.67	128.52	30.54	70.94	1,258.35	2,935.13	6,933.02	6,818.65	114.37	60.619		
16,600.00	7,730.00	7,236.11	7,144.99	129.89	30.54	70.92	1,258.30	2,935.14	7,030.10	6,915.74	114.36	61.476		
16,700.00	7,730.00	7,235.45	7,144.33	131.27	30.53	70.90	1,258.25	2,935.14	7,127.25	7,012.91	114.34	62.334		
16,800.00	7,730.00	7,234.80	7,143.68	132.67	30.53	70.88	1,258.20	2,935.15	7,224.48	7,110.16	114.32	63.193		
16,900.00	7,730.00	7,234.17	7,143.05	134.09	30.53	70.86	1,258.15	2,935.16	7,321.79	7,207.48	114.31	64.052		
17,000.00	7,730.00	7,233.56	7,142.44	135.51	30.53	70.84	1,258.10	2,935.17	7,419.17	7,304.87	114.29	64.912		
17,100.00	7,730.00	7,232.96	7,141.84	136.95	30.53	70.82	1,258.06	2,935.17	7,516.61	7,402.33	114.28	65.773		
17,200.00	7,730.00	7,232.37	7,141.26	138.40	30.53	70.80	1,258.02	2,935.18	7,614.12	7,499.85	114.27	66.634		
17,300.00	7,730.00	7,189.00	7,097.93	139.85	30.42	69.41	1,256.34	2,935.64	7,713.18	7,599.03	114.15	67.569		
17,400.00	7,730.00	7,189.00	7,097.93	141.32	30.42	69.41	1,256.34	2,935.64	7,810.78	7,696.63	114.14	68.430		
17,500.00	7,730.00	7,189.00	7,097.93	142.80	30.42	69.41	1,256.34	2,935.64	7,908.43	7,794.30	114.13	69.291		
17,600.00	7,730.00	7,189.00	7,097.93	144.28	30.42	69.41	1,256.34	2,935.64	8,006.14	7,892.02	114.12	70.152		
17,700.00	7,730.00	7,189.00	7,097.93	145.78	30.42	69.41	1,256.34	2,935.64	8,103.91	7,989.80	114.12	71.014		
17,800.00	7,730.00	7,189.00	7,097.93	147.28	30.42	69.41	1,256.34	2,935.64	8,201.74	8,087.63	114.11	71.876		
17,900.00	7,730.00	7,189.00	7,097.93	148.79	30.42	69.41	1,256.34	2,935.64	8,299.61	8,185.51	114.10	72.739		
18,000.00	7,730.00	7,189.00	7,097.93	150.31	30.42	69.41	1,256.34	2,935.64	8,397.53	8,283.44	114.10	73.601		
18,100.00	7,730.00	7,189.00	7,097.93	151.83	30.42	69.41	1,256.34	2,935.64	8,495.51	8,381.42	114.09	74.464		
18,200.00	7,730.00	7,189.00	7,097.93	153.37	30.42	69.41	1,256.34	2,935.64	8,593.53	8,479.44	114.08	75.327		
18,300.00	7,730.00	7,189.00	7,097.93	154.90	30.42	69.41	1,256.34	2,935.64	8,691.59	8,577.51	114.08	76.190		
18,400.00	7,730.00	7,189.00	7,097.93	156.45	30.42	69.41	1,256.34	2,935.64	8,789.70	8,675.63	114.07	77.053		
18,500.00	7,730.00	7,189.00	7,097.93	158.00	30.42	69.41	1,256.34	2,935.64	8,887.85	8,773.78	114.07	77.916		
18,600.00	7,730.00	7,189.00	7,097.93	159.55	30.42	69.41	1,256.34	2,935.64	8,986.04	8,871.98	114.07	78.779		
18,700.00	7,730.00	7,189.00	7,097.93	161.11	30.42	69.41	1,256.34	2,935.64	9,084.27	8,970.21	114.06	79.642		
18,800.00	7,730.00	7,189.00	7,097.93	162.68	30.42	69.41	1,256.34	2,935.64	9,182.54	9,068.48	114.06	80.505		
18,900.00	7,730.00	7,189.00	7,097.93	164.25	30.42	69.41	1,256.34	2,935.64	9,280.85	9,166.79	114.06	81.368		
19,000.00	7,730.00	7,189.00	7,097.93	165.83	30.42	69.41	1,256.34	2,935.64	9,379.19	9,265.13	114.06	82.231		
19,100.00	7,730.00	7,189.00	7,097.93	167.41	30.42	69.41	1,256.34	2,935.64	9,477.57	9,363.51	114.06	83.094		
19,200.00	7,730.00	7,189.00	7,097.93	168.99	30.42	69.41	1,256.34	2,935.64	9,575.98	9,461.92	114.06	83.957		
19,300.00	7,730.00	7,189.00	7,097.93	170.58	30.42	69.41	1,256.34	2,935.64	9,674.42	9,560.36	114.06	84.820		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		25-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,189.00	7,097.93	172.17	30.42	69.41	1,256.34	2,935.64	9,772.89	9,658.83	114.06	85.682	
19,430.54	7,730.00	7,189.00	7,097.93	172.66	30.42	69.41	1,256.34	2,935.64	9,802.97	9,688.91	114.06	85.946	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	175.64	-4,018.10	306.37	4,029.79					
100.00	100.00	54.04	54.04	0.13	0.09	175.64	-4,018.29	306.62	4,030.10	4,029.88	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	175.62	-4,019.06	307.61	4,031.36	4,030.67	0.69	5,868.128		
300.00	300.00	297.91	297.87	0.85	0.83	175.58	-4,020.41	310.51	4,032.40	4,030.72	1.68	2,399.222		
400.00	400.00	411.70	411.64	1.21	1.23	175.57	-4,019.73	311.50	4,031.86	4,029.42	2.44	1,651.547		
500.00	500.00	515.34	515.26	1.57	1.60	175.53	-4,018.92	313.87	4,031.26	4,028.09	3.17	1,271.388		
600.00	599.98	806.48	804.80	1.92	2.70	109.91	-4,008.16	340.45	4,029.13	4,024.51	4.62	872.032		
700.00	699.84	995.77	990.99	2.28	3.50	109.68	-3,993.16	370.98	4,024.26	4,018.49	5.76	698.160		
800.00	799.45	1,088.75	1,081.87	2.64	3.92	109.61	-3,984.49	388.58	4,019.49	4,012.95	6.54	614.424		
900.00	898.70	1,170.79	1,161.97	3.02	4.31	109.56	-3,977.23	404.76	4,016.45	4,009.15	7.30	550.358		
1,000.00	997.47	1,309.25	1,297.51	3.41	4.96	109.52	-3,964.44	429.96	4,013.99	4,005.66	8.33	481.953		
1,100.00	1,095.62	1,387.27	1,373.95	3.84	5.33	109.53	-3,957.35	443.89	4,012.87	4,003.76	9.11	440.517		
1,200.00	1,193.06	1,528.85	1,512.20	4.29	6.02	109.56	-3,943.88	471.28	4,012.68	4,002.44	10.23	392.194		
1,254.77	1,246.06	1,600.97	1,582.42	4.56	6.39	109.59	-3,936.36	485.91	4,012.58	4,001.74	10.85	369.851		
1,300.00	1,289.64	1,654.01	1,633.92	4.78	6.66	109.61	-3,930.65	497.22	4,012.66	4,001.33	11.33	354.121		
1,400.00	1,385.27	1,768.25	1,744.95	5.32	7.25	109.70	-3,918.00	520.95	4,013.34	4,000.92	12.42	323.068		
1,500.00	1,479.82	1,856.23	1,830.71	5.90	7.70	109.80	-3,908.36	538.07	4,015.22	4,001.80	13.42	299.179		
1,600.00	1,573.17	1,937.00	1,909.45	6.53	8.10	109.89	-3,899.84	553.91	4,018.74	4,004.31	14.43	278.475		
1,700.00	1,665.21	2,034.62	2,004.63	7.23	8.60	110.03	-3,889.76	573.14	4,023.75	4,008.17	15.58	258.344		
1,800.00	1,755.84	2,139.64	2,106.83	7.98	9.15	110.21	-3,878.75	594.60	4,029.91	4,013.09	16.82	239.638		
1,900.00	1,844.94	2,241.73	2,205.88	8.80	9.69	110.38	-3,867.82	616.80	4,037.25	4,019.14	18.11	222.899		
2,000.00	1,932.39	2,356.46	2,317.18	9.68	10.31	110.62	-3,855.31	641.68	4,045.75	4,026.22	19.53	207.158		
2,100.00	2,018.11	2,472.51	2,429.80	10.63	10.93	110.91	-3,841.92	666.27	4,054.97	4,033.96	21.01	193.048		
2,200.00	2,101.97	2,549.14	2,504.17	11.65	11.34	111.04	-3,833.05	682.46	4,065.64	4,043.30	22.34	181.980		
2,300.00	2,183.88	2,719.69	2,669.40	12.74	12.27	111.64	-3,812.76	719.50	4,077.76	4,053.55	24.21	168.435		
2,400.00	2,263.74	2,787.00	2,734.74	13.90	12.63	111.76	-3,803.98	733.08	4,090.16	4,064.55	25.60	159.760		
2,431.61	2,288.54	2,808.93	2,756.03	14.29	12.74	111.80	-3,801.20	737.49	4,094.52	4,068.47	26.06	157.145		
2,500.00	2,341.97	2,836.88	2,783.20	15.13	12.89	111.96	-3,797.86	743.19	4,104.67	4,077.72	26.95	152.315		
2,600.00	2,420.08	2,881.00	2,826.09	16.37	13.12	112.21	-3,793.06	752.35	4,120.74	4,092.47	28.27	145.748		
2,700.00	2,498.20	3,009.80	2,951.15	17.63	13.82	112.92	-3,778.97	779.73	4,137.15	4,107.11	30.04	137.735		
2,800.00	2,576.32	3,070.00	3,009.49	18.89	14.15	113.24	-3,772.18	792.92	4,153.72	4,122.26	31.45	132.059		
2,900.00	2,654.43	3,132.54	3,070.11	20.17	14.49	113.58	-3,765.57	806.84	4,171.27	4,138.39	32.88	126.856		
3,000.00	2,732.55	3,281.51	3,214.38	21.45	15.31	114.35	-3,750.33	840.66	4,189.54	4,154.77	34.77	120.490		
3,100.00	2,810.67	3,366.73	3,296.83	22.74	15.78	114.79	-3,740.80	859.95	4,207.08	4,170.76	36.32	115.842		
3,200.00	2,888.78	3,454.90	3,382.20	24.03	16.27	115.25	-3,731.05	879.76	4,225.05	4,187.18	37.87	111.566		
3,300.00	2,966.90	3,557.27	3,481.33	25.33	16.84	115.77	-3,719.52	902.52	4,243.15	4,203.67	39.49	107.453		
3,400.00	3,045.02	3,624.61	3,546.62	26.63	17.20	116.12	-3,712.07	917.27	4,261.80	4,220.88	40.91	104.170		
3,500.00	3,123.13	3,704.15	3,623.81	27.94	17.64	116.53	-3,703.60	934.47	4,281.16	4,238.77	42.39	101.002		
3,600.00	3,201.25	3,773.15	3,690.84	29.24	18.01	116.89	-3,696.44	949.19	4,301.12	4,257.32	43.79	98.213		
3,700.00	3,279.37	3,834.71	3,750.76	30.55	18.33	117.21	-3,690.42	961.97	4,321.98	4,276.83	45.15	95.731		
3,800.00	3,357.49	3,897.84	3,812.36	31.86	18.66	117.54	-3,684.58	974.45	4,343.75	4,297.26	46.49	93.442		
3,900.00	3,435.60	3,958.65	3,871.89	33.18	18.96	117.87	-3,679.26	985.67	4,366.42	4,318.63	47.79	91.368		
4,000.00	3,513.72	4,016.00	3,928.22	34.49	19.24	118.19	-3,674.52	995.38	4,390.05	4,341.00	49.05	89.495		
4,100.00	3,591.84	4,060.78	3,972.31	35.81	19.44	118.45	-3,671.12	1,002.37	4,414.80	4,364.58	50.23	87.898		
4,200.00	3,669.95	4,111.00	4,021.90	37.12	19.66	118.74	-3,667.79	1,009.63	4,440.83	4,389.42	51.41	86.386		
4,300.00	3,748.07	4,151.49	4,061.97	38.44	19.83	118.98	-3,665.41	1,014.94	4,468.05	4,415.54	52.51	85.089		
4,400.00	3,826.19	4,205.00	4,115.04	39.76	20.05	119.30	-3,662.58	1,021.09	4,496.42	4,442.76	53.65	83.805		
4,500.00	3,904.30	4,271.35	4,181.01	41.08	20.30	119.71	-3,659.22	1,027.36	4,525.71	4,470.90	54.81	82.566		
4,600.00	3,982.42	4,326.26	4,235.70	42.40	20.50	120.07	-3,656.42	1,031.45	4,555.76	4,499.86	55.90	81.503		
4,700.00	4,060.54	4,369.15	4,278.46	43.72	20.65	120.35	-3,654.50	1,034.06	4,586.97	4,530.07	56.91	80.606		
4,800.00	4,138.66	4,394.00	4,303.26	45.05	20.73	120.51	-3,653.53	1,035.34	4,619.44	4,561.62	57.82	79.893		
4,900.00	4,216.77	4,440.52	4,349.72	46.37	20.88	120.82	-3,652.08	1,037.33	4,653.13	4,594.34	58.79	79.144		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,488.00	4,397.16	47.69	21.02	121.14	-3,651.22	1,038.80	4,688.26	4,628.51	59.75	78.463		
5,100.00	4,373.01	4,522.54	4,431.69	49.02	21.12	121.37	-3,650.84	1,039.63	4,724.51	4,663.87	60.63	77.920		
5,200.00	4,451.12	4,589.79	4,498.93	50.34	21.32	121.83	-3,650.17	1,040.93	4,761.60	4,699.97	61.63	77.262		
5,300.00	4,529.24	4,681.78	4,590.89	51.67	21.58	122.44	-3,649.23	1,042.63	4,799.16	4,736.44	62.71	76.525		
5,400.00	4,607.36	4,758.64	4,667.73	52.99	21.81	122.94	-3,648.41	1,044.23	4,837.11	4,773.38	63.73	75.899		
5,500.00	4,685.47	4,842.21	4,751.28	54.32	22.05	123.48	-3,647.56	1,046.19	4,875.51	4,810.74	64.77	75.276		
5,600.00	4,763.59	4,932.15	4,841.18	55.64	22.32	124.05	-3,646.58	1,048.53	4,914.24	4,848.41	65.83	74.654		
5,700.00	4,841.71	5,012.48	4,921.47	56.97	22.57	124.56	-3,645.59	1,050.66	4,953.27	4,886.44	66.84	74.111		
5,800.00	4,919.83	5,094.22	5,003.19	58.30	22.81	125.07	-3,644.58	1,052.71	4,992.77	4,924.93	67.84	73.597		
5,900.00	4,997.94	5,178.46	5,087.40	59.62	23.07	125.59	-3,643.35	1,054.53	5,032.57	4,963.73	68.84	73.106		
6,000.00	5,076.06	5,253.00	5,161.92	60.95	23.29	126.05	-3,642.10	1,055.62	5,072.79	5,003.01	69.78	72.696		
6,100.00	5,154.18	5,316.72	5,225.62	62.28	23.48	126.44	-3,641.06	1,056.16	5,113.60	5,042.94	70.66	72.370		
6,200.00	5,232.29	5,372.87	5,281.77	63.61	23.64	126.78	-3,640.25	1,056.36	5,155.09	5,083.60	71.49	72.112		
6,300.00	5,310.41	5,432.00	5,340.90	64.93	23.80	127.15	-3,639.61	1,056.22	5,197.38	5,125.07	72.31	71.874		
6,400.00	5,388.53	5,481.10	5,390.00	66.26	23.94	127.45	-3,639.25	1,055.91	5,240.42	5,167.34	73.08	71.712		
6,500.00	5,466.64	5,542.56	5,451.45	67.59	24.10	127.82	-3,639.02	1,055.43	5,284.17	5,210.29	73.88	71.525		
6,600.00	5,544.76	5,624.52	5,533.41	68.92	24.32	128.32	-3,638.76	1,054.76	5,328.36	5,253.60	74.76	71.276		
6,700.00	5,622.88	5,697.94	5,606.83	70.25	24.51	128.75	-3,638.49	1,054.06	5,372.92	5,297.33	75.59	71.079		
6,800.00	5,701.00	5,780.31	5,689.19	71.58	24.73	129.24	-3,638.13	1,053.09	5,417.87	5,341.41	76.45	70.865		
6,900.00	5,779.11	5,854.18	5,763.05	72.91	24.93	129.67	-3,637.71	1,052.14	5,463.12	5,385.85	77.27	70.701		
7,000.00	5,857.23	5,927.17	5,836.03	74.23	25.13	130.09	-3,637.37	1,051.07	5,508.83	5,430.76	78.08	70.557		
7,100.00	5,935.35	6,022.68	5,931.53	75.56	25.39	130.64	-3,636.81	1,049.69	5,554.82	5,475.84	78.97	70.337		
7,200.00	6,013.46	6,131.31	6,040.15	76.89	25.69	131.24	-3,635.75	1,048.66	5,600.68	5,520.74	79.94	70.065		
7,300.00	6,091.58	6,222.15	6,130.98	78.22	25.96	131.74	-3,634.79	1,048.30	5,646.66	5,565.84	80.82	69.865		
7,400.00	6,169.70	6,321.69	6,230.52	79.55	26.25	132.27	-3,633.45	1,048.10	5,692.67	5,610.93	81.75	69.638		
7,500.00	6,247.81	6,405.55	6,314.36	80.88	26.50	132.72	-3,631.97	1,047.70	5,738.79	5,656.20	82.59	69.487		
7,600.00	6,325.93	6,475.45	6,384.24	82.21	26.70	133.09	-3,630.64	1,047.03	5,785.26	5,701.91	83.35	69.406		
7,700.00	6,404.05	6,549.96	6,458.74	83.54	26.92	133.48	-3,629.21	1,046.12	5,832.12	5,747.99	84.13	69.322		
7,800.00	6,482.17	6,637.07	6,545.82	84.87	27.18	133.93	-3,627.56	1,045.15	5,879.25	5,794.29	84.96	69.199		
7,900.00	6,560.28	6,690.52	6,599.27	86.20	27.34	134.20	-3,626.60	1,044.69	5,926.68	5,841.05	85.63	69.211		
8,000.00	6,638.40	6,729.59	6,638.33	87.53	27.45	134.40	-3,626.17	1,044.33	5,974.87	5,888.64	86.23	69.293		
8,100.00	6,716.52	6,785.50	6,694.24	88.86	27.61	134.68	-3,625.94	1,043.77	6,023.79	5,936.90	86.89	69.326		
8,200.00	6,794.63	6,875.04	6,783.77	90.20	27.87	135.12	-3,625.49	1,042.84	6,072.96	5,985.25	87.71	69.237		
8,300.00	6,872.75	6,963.53	6,872.26	91.53	28.13	135.55	-3,625.07	1,042.23	6,122.27	6,033.74	88.53	69.153		
8,400.00	6,950.87	7,059.41	6,968.14	92.86	28.42	136.00	-3,624.49	1,042.05	6,171.54	6,082.14	89.40	69.036		
8,500.00	7,028.98	7,120.44	7,029.16	94.19	28.61	136.28	-3,624.24	1,042.05	6,221.12	6,131.03	90.08	69.059		
8,600.00	7,107.10	7,223.10	7,131.82	95.52	28.93	136.75	-3,623.83	1,042.10	6,270.93	6,179.95	90.98	68.923		
8,647.91	7,144.53	7,259.66	7,168.38	96.16	29.04	136.91	-3,623.58	1,042.11	6,294.77	6,203.42	91.35	68.910		
8,650.00	7,146.16	7,261.17	7,169.90	96.18	29.04	136.62	-3,623.57	1,042.11	6,295.81	6,204.45	91.36	68.910		
8,700.00	7,185.66	7,297.80	7,206.52	96.84	29.16	129.45	-3,623.32	1,042.09	6,318.91	6,227.17	91.74	68.877		
8,750.00	7,225.78	7,339.70	7,248.42	97.47	29.29	122.12	-3,623.03	1,042.04	6,338.56	6,246.39	92.16	68.776		
8,800.00	7,266.21	7,392.20	7,300.92	98.08	29.45	114.81	-3,622.64	1,042.06	6,354.55	6,261.90	92.65	68.586		
8,850.00	7,306.63	7,435.17	7,343.89	98.64	29.59	107.65	-3,622.29	1,042.16	6,366.79	6,273.69	93.10	68.388		
8,900.00	7,346.75	7,469.23	7,377.95	99.17	29.69	100.86	-3,622.02	1,042.22	6,375.29	6,281.79	93.50	68.184		
8,950.00	7,386.25	7,502.70	7,411.42	99.64	29.80	94.67	-3,621.78	1,042.24	6,380.03	6,286.13	93.90	67.945		
9,000.00	7,424.84	7,546.41	7,455.13	100.06	29.94	89.28	-3,621.47	1,042.26	6,380.96	6,286.62	94.35	67.634		
9,050.00	7,462.22	7,592.48	7,501.19	100.42	30.08	84.69	-3,621.13	1,042.37	6,378.05	6,283.25	94.79	67.283		
9,100.00	7,498.11	7,638.56	7,547.27	100.74	30.23	80.92	-3,620.75	1,042.56	6,371.32	6,276.09	95.23	66.904		
9,150.00	7,532.24	7,683.03	7,591.74	100.99	30.37	77.92	-3,620.32	1,042.77	6,360.85	6,265.20	95.64	66.505		
9,200.00	7,564.34	7,714.70	7,623.41	101.19	30.47	75.60	-3,619.98	1,042.94	6,346.75	6,250.77	95.97	66.131		
9,250.00	7,594.17	7,738.37	7,647.07	101.34	30.55	73.92	-3,619.76	1,043.07	6,329.19	6,232.95	96.24	65.765		
9,300.00	7,621.50	7,760.09	7,668.80	101.45	30.62	72.91	-3,619.58	1,043.20	6,308.32	6,211.85	96.48	65.387		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,779.70	7,688.40	101.50	30.68	72.55	-3,619.44	1,043.32	6,284.30	6,187.61	96.68	64.998		
9,400.00	7,667.87	7,797.27	7,705.97	101.51	30.74	72.84	-3,619.33	1,043.43	6,257.28	6,160.42	96.86	64.600		
9,450.00	7,686.55	7,813.30	7,722.00	101.48	30.79	73.80	-3,619.25	1,043.54	6,227.47	6,130.46	97.01	64.192		
9,500.00	7,702.04	7,826.56	7,735.27	101.42	30.83	75.47	-3,619.18	1,043.62	6,195.08	6,097.94	97.14	63.778		
9,550.00	7,714.20	7,836.96	7,745.67	101.33	30.86	77.91	-3,619.13	1,043.69	6,160.33	6,063.10	97.23	63.360		
9,600.00	7,722.96	7,844.41	7,753.11	101.20	30.89	81.19	-3,619.10	1,043.74	6,123.47	6,026.17	97.29	62.938		
9,650.00	7,728.24	7,848.83	7,757.53	101.06	30.90	85.43	-3,619.08	1,043.77	6,084.75	5,987.42	97.33	62.514		
9,699.97	7,730.00	7,850.19	7,758.89	100.90	30.90	90.71	-3,619.07	1,043.78	6,044.47	5,947.12	97.35	62.087		
9,800.00	7,730.00	7,849.82	7,758.52	100.56	30.90	90.70	-3,619.07	1,043.77	5,962.72	5,865.35	97.38	61.235		
9,900.00	7,730.00	7,849.45	7,758.15	100.24	30.90	90.70	-3,619.08	1,043.77	5,881.56	5,784.16	97.40	60.385		
10,000.00	7,730.00	7,849.08	7,757.78	99.93	30.90	90.69	-3,619.08	1,043.77	5,800.99	5,703.56	97.43	59.539		
10,100.00	7,730.00	7,848.70	7,757.40	99.64	30.90	90.69	-3,619.08	1,043.77	5,721.03	5,623.56	97.47	58.695		
10,200.00	7,730.00	7,848.33	7,757.03	99.36	30.90	90.68	-3,619.08	1,043.76	5,641.71	5,544.19	97.52	57.854		
10,300.00	7,730.00	7,847.95	7,756.65	99.09	30.90	90.67	-3,619.08	1,043.76	5,563.05	5,465.49	97.57	57.017		
10,400.00	7,730.00	7,847.57	7,756.27	98.84	30.90	90.67	-3,619.08	1,043.76	5,485.10	5,387.47	97.63	56.183		
10,500.00	7,730.00	7,847.19	7,755.89	98.61	30.90	90.66	-3,619.09	1,043.76	5,407.86	5,310.16	97.70	55.353		
10,600.00	7,730.00	7,846.81	7,755.51	98.39	30.89	90.65	-3,619.09	1,043.75	5,331.39	5,233.61	97.78	54.526		
10,700.00	7,730.00	7,846.42	7,755.12	98.18	30.89	90.65	-3,619.09	1,043.75	5,255.70	5,157.84	97.86	53.704		
10,800.00	7,730.00	7,846.03	7,754.74	97.99	30.89	90.64	-3,619.09	1,043.75	5,180.84	5,082.88	97.96	52.886		
10,900.00	7,730.00	7,845.65	7,754.35	97.81	30.89	90.64	-3,619.09	1,043.75	5,106.84	5,008.76	98.07	52.073		
11,000.00	7,730.00	7,845.26	7,753.96	97.64	30.89	90.63	-3,619.09	1,043.74	5,033.73	4,935.54	98.19	51.264		
11,100.00	7,730.00	7,844.86	7,753.56	97.50	30.89	90.62	-3,619.10	1,043.74	4,961.57	4,863.25	98.32	50.461		
11,200.00	7,730.00	7,844.47	7,753.17	97.36	30.89	90.62	-3,619.10	1,043.74	4,890.38	4,791.92	98.47	49.664		
11,300.00	7,730.00	7,844.07	7,752.77	97.24	30.89	90.61	-3,619.10	1,043.74	4,820.22	4,721.60	98.63	48.873		
11,400.00	7,730.00	7,843.67	7,752.37	97.14	30.88	90.60	-3,619.10	1,043.73	4,751.13	4,652.33	98.80	48.088		
11,500.00	7,730.00	7,843.27	7,751.97	97.06	30.88	90.60	-3,619.10	1,043.73	4,683.16	4,584.17	98.99	47.310		
11,600.00	7,730.00	7,842.87	7,751.57	96.98	30.88	90.59	-3,619.10	1,043.73	4,616.35	4,517.15	99.19	46.539		
11,700.00	7,730.00	7,842.47	7,751.17	96.93	30.88	90.58	-3,619.11	1,043.73	4,550.75	4,451.34	99.41	45.777		
11,800.00	7,730.00	7,842.06	7,750.76	96.90	30.88	90.58	-3,619.11	1,043.72	4,486.43	4,386.78	99.65	45.022		
11,900.00	7,730.00	7,841.65	7,750.35	96.88	30.88	90.57	-3,619.11	1,043.72	4,423.43	4,323.53	99.90	44.277		
12,000.00	7,730.00	7,841.24	7,749.94	96.88	30.88	90.56	-3,619.11	1,043.72	4,361.81	4,261.64	100.18	43.542		
12,100.00	7,730.00	7,840.83	7,749.53	96.90	30.87	90.56	-3,619.11	1,043.72	4,301.64	4,201.17	100.47	42.816		
12,200.00	7,730.00	7,840.41	7,749.11	96.94	30.87	90.55	-3,619.11	1,043.71	4,242.97	4,142.19	100.78	42.102		
12,300.00	7,730.00	7,840.00	7,748.70	97.00	30.87	90.54	-3,619.12	1,043.71	4,185.87	4,084.76	101.11	41.399		
12,400.00	7,730.00	7,839.58	7,748.28	97.08	30.87	90.53	-3,619.12	1,043.71	4,130.40	4,028.94	101.46	40.709		
12,500.00	7,730.00	7,839.16	7,747.86	97.18	30.87	90.53	-3,619.12	1,043.71	4,076.63	3,974.80	101.83	40.033		
12,600.00	7,730.00	7,838.73	7,747.43	97.31	30.87	90.52	-3,619.12	1,043.70	4,024.62	3,922.40	102.22	39.370		
12,700.00	7,730.00	7,838.31	7,747.01	97.46	30.87	90.51	-3,619.12	1,043.70	3,974.45	3,871.82	102.64	38.723		
12,800.00	7,730.00	7,837.88	7,746.58	97.64	30.87	90.51	-3,619.13	1,043.70	3,926.19	3,823.12	103.07	38.092		
12,900.00	7,730.00	7,837.45	7,746.15	97.85	30.86	90.50	-3,619.13	1,043.69	3,879.90	3,776.38	103.53	37.478		
13,000.00	7,730.00	7,837.02	7,745.72	98.09	30.86	90.49	-3,619.13	1,043.69	3,835.67	3,731.67	104.00	36.882		
13,100.00	7,730.00	7,836.58	7,745.28	98.35	30.86	90.48	-3,619.13	1,043.69	3,793.55	3,689.06	104.49	36.305		
13,200.00	7,730.00	7,836.14	7,744.85	98.65	30.86	90.48	-3,619.13	1,043.69	3,753.63	3,648.63	105.00	35.748		
13,300.00	7,730.00	7,835.71	7,744.41	98.98	30.86	90.47	-3,619.14	1,043.68	3,715.97	3,610.44	105.53	35.212		
13,400.00	7,730.00	7,835.26	7,743.97	99.34	30.86	90.46	-3,619.14	1,043.68	3,680.64	3,574.56	106.08	34.698		
13,500.00	7,730.00	7,834.82	7,743.52	99.74	30.86	90.46	-3,619.14	1,043.68	3,647.71	3,541.08	106.64	34.207		
13,600.00	7,730.00	7,834.37	7,743.08	100.17	30.85	90.45	-3,619.14	1,043.67	3,617.25	3,510.04	107.21	33.741		
13,700.00	7,730.00	7,833.93	7,742.63	100.65	30.85	90.44	-3,619.14	1,043.67	3,589.31	3,481.52	107.79	33.299		
13,800.00	7,730.00	7,833.48	7,742.18	101.16	30.85	90.43	-3,619.15	1,043.67	3,563.97	3,455.59	108.38	32.884		
13,900.00	7,730.00	7,833.02	7,741.72	101.71	30.85	90.43	-3,619.15	1,043.67	3,541.26	3,432.29	108.98	32.496		
14,000.00	7,730.00	7,832.57	7,741.27	102.30	30.85	90.42	-3,619.15	1,043.66	3,521.25	3,411.68	109.58	32.135		
14,100.00	7,730.00	7,832.11	7,740.81	102.93	30.85	90.41	-3,619.15	1,043.66	3,503.99	3,393.81	110.18	31.802		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,831.65	7,740.35	103.60	30.85	90.40	-3,619.15	1,043.66	3,489.50	3,378.72	110.78	31.499		
14,300.00	7,730.00	7,831.18	7,739.89	104.32	30.84	90.40	-3,619.16	1,043.65	3,477.83	3,366.45	111.38	31.226		
14,400.00	7,730.00	7,830.72	7,739.42	105.07	30.84	90.39	-3,619.16	1,043.65	3,469.00	3,357.04	111.97	30.983		
14,500.00	7,730.00	7,830.25	7,738.95	105.86	30.84	90.38	-3,619.16	1,043.65	3,463.04	3,350.50	112.54	30.770		
14,600.00	7,730.00	7,829.78	7,738.48	106.70	30.84	90.37	-3,619.16	1,043.65	3,459.96	3,346.85	113.11	30.589		
14,656.59	7,730.00	7,829.51	7,738.21	107.19	30.84	90.37	-3,619.17	1,043.64	3,459.50	3,346.07	113.43	30.500 CC, ES		
14,700.00	7,730.00	7,829.31	7,738.01	107.57	30.84	90.36	-3,619.17	1,043.64	3,459.77	3,346.11	113.66	30.439		
14,800.00	7,730.00	7,828.83	7,737.53	108.48	30.84	90.36	-3,619.17	1,043.64	3,462.47	3,348.27	114.20	30.320		
14,900.00	7,730.00	7,828.35	7,737.05	109.43	30.84	90.35	-3,619.17	1,043.64	3,468.05	3,353.34	114.71	30.233		
15,000.00	7,730.00	7,827.87	7,736.57	110.42	30.83	90.34	-3,619.17	1,043.63	3,476.50	3,361.30	115.20	30.177		
15,100.00	7,730.00	7,827.39	7,736.09	111.43	30.83	90.33	-3,619.18	1,043.63	3,487.80	3,372.13	115.67	30.152 SF		
15,200.00	7,730.00	7,826.90	7,735.60	112.49	30.83	90.32	-3,619.18	1,043.63	3,501.92	3,385.80	116.12	30.158		
15,300.00	7,730.00	7,826.41	7,735.11	113.57	30.83	90.32	-3,619.18	1,043.62	3,518.82	3,402.29	116.54	30.195		
15,400.00	7,730.00	7,825.92	7,734.62	114.68	30.83	90.31	-3,619.18	1,043.62	3,538.47	3,421.55	116.93	30.262		
15,500.00	7,730.00	7,825.43	7,734.13	115.82	30.83	90.30	-3,619.18	1,043.62	3,560.82	3,443.53	117.29	30.359		
15,600.00	7,730.00	7,824.93	7,733.63	116.99	30.82	90.29	-3,619.19	1,043.61	3,585.83	3,468.20	117.63	30.485		
15,700.00	7,730.00	7,824.43	7,733.13	118.19	30.82	90.28	-3,619.19	1,043.61	3,613.42	3,495.49	117.93	30.640		
15,800.00	7,730.00	7,823.93	7,732.63	119.41	30.82	90.28	-3,619.19	1,043.61	3,643.56	3,525.35	118.21	30.822		
15,900.00	7,730.00	7,823.42	7,732.12	120.65	30.82	90.27	-3,619.19	1,043.60	3,676.16	3,557.70	118.46	31.032		
16,000.00	7,730.00	7,822.91	7,731.61	121.91	30.82	90.26	-3,619.20	1,043.60	3,711.18	3,592.49	118.69	31.269		
16,100.00	7,730.00	7,822.40	7,731.10	123.20	30.82	90.25	-3,619.20	1,043.60	3,748.54	3,629.65	118.88	31.531		
16,200.00	7,730.00	7,821.89	7,730.59	124.50	30.81	90.24	-3,619.20	1,043.59	3,788.17	3,669.11	119.05	31.819		
16,300.00	7,730.00	7,821.37	7,730.07	125.82	30.81	90.23	-3,619.20	1,043.59	3,830.00	3,710.80	119.20	32.130		
16,400.00	7,730.00	7,820.85	7,729.55	127.16	30.81	90.22	-3,619.21	1,043.59	3,873.96	3,754.63	119.32	32.466		
16,500.00	7,730.00	7,820.32	7,729.03	128.52	30.81	90.22	-3,619.21	1,043.58	3,919.98	3,800.55	119.43	32.824		
16,600.00	7,730.00	7,819.80	7,728.50	129.89	30.81	90.21	-3,619.21	1,043.58	3,967.99	3,848.48	119.51	33.203		
16,700.00	7,730.00	7,819.27	7,727.97	131.27	30.81	90.20	-3,619.22	1,043.58	4,017.91	3,898.34	119.57	33.604		
16,800.00	7,730.00	7,818.74	7,727.44	132.67	30.80	90.19	-3,619.22	1,043.57	4,069.67	3,950.07	119.61	34.025		
16,900.00	7,730.00	7,818.20	7,726.90	134.09	30.80	90.18	-3,619.22	1,043.57	4,123.22	4,003.58	119.63	34.466		
17,000.00	7,730.00	7,817.66	7,726.37	135.51	30.80	90.17	-3,619.22	1,043.57	4,178.47	4,058.83	119.64	34.925		
17,100.00	7,730.00	7,817.12	7,725.82	136.95	30.80	90.16	-3,619.23	1,043.56	4,235.36	4,115.72	119.64	35.402		
17,200.00	7,730.00	7,816.58	7,725.28	138.40	30.80	90.15	-3,619.23	1,043.56	4,293.83	4,174.21	119.62	35.897		
17,300.00	7,730.00	7,816.03	7,724.73	139.85	30.80	90.14	-3,619.23	1,043.56	4,353.80	4,234.22	119.58	36.408		
17,400.00	7,730.00	7,815.48	7,724.18	141.32	30.79	90.14	-3,619.23	1,043.55	4,415.23	4,295.69	119.54	36.935		
17,500.00	7,730.00	7,814.92	7,723.63	142.80	30.79	90.13	-3,619.24	1,043.55	4,478.05	4,358.56	119.49	37.477		
17,600.00	7,730.00	7,814.36	7,723.07	144.28	30.79	90.12	-3,619.24	1,043.55	4,542.20	4,422.78	119.43	38.033		
17,700.00	7,730.00	7,813.80	7,722.51	145.78	30.79	90.11	-3,619.24	1,043.54	4,607.63	4,488.28	119.36	38.604		
17,800.00	7,730.00	7,813.24	7,721.94	147.28	30.79	90.10	-3,619.25	1,043.54	4,674.29	4,555.01	119.28	39.188		
17,900.00	7,730.00	7,812.67	7,721.37	148.79	30.79	90.09	-3,619.25	1,043.53	4,742.11	4,622.91	119.20	39.784		
18,000.00	7,730.00	7,812.10	7,720.80	150.31	30.78	90.08	-3,619.25	1,043.53	4,811.06	4,691.95	119.11	40.393		
18,100.00	7,730.00	7,811.53	7,720.23	151.83	30.78	90.07	-3,619.26	1,043.53	4,881.08	4,762.07	119.01	41.013		
18,200.00	7,730.00	7,810.95	7,719.65	153.37	30.78	90.06	-3,619.26	1,043.52	4,952.13	4,833.22	118.92	41.644		
18,300.00	7,730.00	7,810.37	7,719.07	154.90	30.78	90.05	-3,619.26	1,043.52	5,024.17	4,905.35	118.81	42.286		
18,400.00	7,730.00	7,813.28	7,721.98	156.45	30.79	90.10	-3,619.25	1,043.54	5,097.14	4,978.42	118.73	42.931		
18,500.00	7,730.00	7,812.65	7,721.35	158.00	30.79	90.09	-3,619.25	1,043.54	5,171.03	5,052.41	118.62	43.592		
18,600.00	7,730.00	7,812.00	7,720.70	159.55	30.78	90.08	-3,619.26	1,043.53	5,245.78	5,127.27	118.51	44.263		
18,700.00	7,730.00	7,811.34	7,720.05	161.11	30.78	90.07	-3,619.26	1,043.53	5,321.36	5,202.96	118.40	44.943		
18,800.00	7,730.00	7,810.68	7,719.38	162.68	30.78	90.06	-3,619.26	1,043.52	5,397.74	5,279.44	118.29	45.631		
18,900.00	7,730.00	7,810.00	7,718.70	164.25	30.78	90.04	-3,619.27	1,043.52	5,474.87	5,356.69	118.18	46.327		
19,000.00	7,730.00	7,809.31	7,718.02	165.83	30.77	90.03	-3,619.27	1,043.51	5,552.74	5,434.67	118.07	47.031		
19,100.00	7,730.00	7,808.62	7,717.32	167.41	30.77	90.02	-3,619.27	1,043.51	5,631.30	5,513.35	117.95	47.742		
19,200.00	7,730.00	7,807.91	7,716.61	168.99	30.77	90.01	-3,619.28	1,043.51	5,710.53	5,592.69	117.84	48.460		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		120-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,807.19	7,715.89	170.58	30.77	90.00	-3,619.28	1,043.50	5,790.41	5,672.68	117.73	49.184	
19,400.00	7,730.00	7,806.46	7,715.16	172.17	30.77	89.99	-3,619.28	1,043.50	5,870.90	5,753.29	117.62	49.915	
19,430.54	7,730.00	7,806.23	7,714.93	172.66	30.76	89.98	-3,619.29	1,043.49	5,895.60	5,778.02	117.58	50.140	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	175.65	-4,029.02	306.37	4,040.68				
100.00	100.00	99.89	99.89	0.13	0.17	175.65	-4,028.85	306.60	4,040.53	4,040.22	0.30	N/A	
200.00	200.00	250.80	250.78	0.49	0.71	175.62	-4,027.22	308.68	4,039.55	4,038.35	1.21	3,346.224	
300.00	300.00	305.00	304.94	0.85	0.91	175.60	-4,026.12	310.07	4,038.09	4,036.33	1.76	2,295.410	
318.94	318.94	305.00	304.94	0.92	0.91	175.60	-4,026.12	310.07	4,038.04	4,036.21	1.83	2,209.872	
400.00	400.00	305.00	304.94	1.21	0.91	175.60	-4,026.12	310.07	4,038.86	4,036.73	2.12	1,904.485	
429.86	429.86	388.39	388.27	1.32	1.21	175.55	-4,025.31	313.16	4,037.56	4,035.04	2.53	1,596.491	
500.00	500.00	418.53	418.37	1.57	1.32	175.53	-4,025.55	314.61	4,038.39	4,035.50	2.89	1,397.028	
600.00	599.98	461.47	461.24	1.92	1.48	110.10	-4,026.39	317.00	4,041.37	4,037.97	3.40	1,187.724	
700.00	699.84	504.36	504.02	2.28	1.64	109.99	-4,027.80	319.75	4,046.96	4,043.05	3.91	1,033.764	
800.00	799.45	547.13	546.63	2.64	1.80	109.84	-4,029.78	322.86	4,055.14	4,050.71	4.43	914.613	
900.00	898.70	639.00	637.94	3.02	2.13	109.69	-4,035.97	330.75	4,066.60	4,061.46	5.14	791.182	
1,000.00	997.47	639.00	637.94	3.41	2.13	109.46	-4,035.97	330.75	4,079.23	4,073.70	5.53	737.616	
1,100.00	1,095.62	677.56	676.18	3.84	2.29	109.20	-4,039.32	334.48	4,095.02	4,088.93	6.09	672.762	
1,200.00	1,193.06	731.00	729.08	4.29	2.50	108.95	-4,044.63	339.84	4,113.24	4,106.52	6.72	611.802	
1,300.00	1,289.64	759.77	757.50	4.78	2.62	108.61	-4,047.87	342.89	4,133.90	4,126.60	7.30	566.478	
1,400.00	1,385.27	794.00	791.24	5.32	2.76	108.24	-4,052.16	346.80	4,157.15	4,149.22	7.93	524.469	
1,500.00	1,479.82	825.00	821.70	5.90	2.89	107.82	-4,056.47	350.60	4,182.95	4,174.37	8.58	487.632	
1,600.00	1,573.17	864.03	859.93	6.53	3.07	107.39	-4,062.41	355.69	4,211.19	4,201.88	9.31	452.341	
1,700.00	1,665.21	920.00	914.53	7.23	3.32	106.98	-4,071.90	363.55	4,241.95	4,231.79	10.16	417.570	
1,800.00	1,755.84	920.00	914.53	7.98	3.32	106.31	-4,071.90	363.55	4,274.83	4,264.03	10.80	395.715	
1,900.00	1,844.94	967.08	960.24	8.80	3.55	105.79	-4,080.78	370.52	4,310.01	4,298.30	11.71	368.032	
2,000.00	1,932.39	1,014.00	1,005.60	9.68	3.78	105.25	-4,090.47	377.61	4,347.54	4,334.87	12.67	343.234	
2,100.00	2,018.11	1,037.25	1,028.00	10.63	3.91	104.54	-4,095.53	381.17	4,387.07	4,373.51	13.56	323.562	
2,200.00	2,101.97	1,079.37	1,068.52	11.65	4.13	103.90	-4,105.00	387.72	4,428.58	4,413.99	14.59	303.468	
2,300.00	2,183.88	1,133.53	1,120.49	12.74	4.42	103.30	-4,117.67	396.23	4,471.89	4,456.15	15.74	284.082	
2,400.00	2,263.74	2,400.00	1,238.62	13.90	11.47	103.17	-4,145.84	414.27	4,515.93	4,493.09	22.84	197.711	
2,431.61	2,288.54	1,301.81	1,282.47	14.29	5.34	103.18	-4,155.94	421.00	4,529.87	4,512.01	17.86	253.610	
2,500.00	2,341.97	1,331.52	1,311.06	15.13	5.51	103.38	-4,162.60	425.58	4,560.45	4,541.77	18.68	244.119	
2,600.00	2,420.08	1,390.83	1,367.98	16.37	5.85	103.78	-4,176.27	435.13	4,605.98	4,586.01	19.98	230.568	
2,700.00	2,498.20	1,504.49	1,476.99	17.63	6.51	104.52	-4,201.89	454.54	4,651.47	4,629.86	21.61	215.280	
2,800.00	2,576.32	1,575.37	1,544.96	18.89	6.93	104.97	-4,217.76	466.90	4,697.25	4,674.26	22.99	204.291	
2,900.00	2,654.43	1,637.99	1,604.92	20.17	7.30	105.36	-4,231.96	478.05	4,743.61	4,719.27	24.33	194.954	
3,000.00	2,732.55	1,708.22	1,672.09	21.45	7.73	105.78	-4,248.10	490.69	4,790.52	4,764.80	25.72	186.258	
3,100.00	2,810.67	3,100.00	1,775.19	22.74	16.20	106.43	-4,272.53	510.19	4,837.51	4,803.66	33.85	142.913	
3,200.00	2,888.78	1,902.07	1,857.67	24.03	8.90	106.93	-4,291.64	525.95	4,884.40	4,855.55	28.85	169.305	
3,300.00	2,966.90	1,977.58	1,930.11	25.33	9.35	107.38	-4,308.58	538.86	4,931.87	4,901.60	30.27	162.937	
3,400.00	3,045.02	2,076.31	2,024.98	26.63	9.94	107.95	-4,330.37	555.35	4,979.37	4,947.54	31.83	156.412	
3,500.00	3,123.13	2,125.00	2,071.77	27.94	10.23	108.23	-4,341.02	563.62	5,027.12	4,994.06	33.07	152.035	
3,600.00	3,201.25	2,181.58	2,126.02	29.24	10.58	108.55	-4,353.71	573.51	5,075.54	5,041.20	34.35	147.767	
3,700.00	3,279.37	2,221.93	2,164.55	30.55	10.82	108.77	-4,363.17	580.82	5,124.93	5,089.42	35.51	144.329	
3,800.00	3,357.49	2,319.75	2,258.01	31.86	11.43	109.30	-4,386.23	598.21	5,174.71	5,137.64	37.08	139.571	
3,900.00	3,435.60	2,438.93	2,372.03	33.18	12.16	109.94	-4,413.78	619.31	5,224.43	5,185.64	38.79	134.671	
4,000.00	3,513.72	2,534.54	2,463.72	34.49	12.75	110.44	-4,434.95	636.17	5,273.55	5,233.21	40.34	130.721	
4,100.00	3,591.84	2,578.33	2,505.62	35.81	13.02	110.66	-4,444.89	644.13	5,323.34	5,281.84	41.51	128.248	
4,200.00	3,669.95	2,705.54	2,627.25	37.12	13.81	111.30	-4,473.88	667.53	5,373.52	5,330.22	43.30	124.110	
4,300.00	3,748.07	2,810.30	2,727.71	38.44	14.45	111.81	-4,496.78	686.49	5,423.10	5,378.19	44.91	120.762	
4,400.00	3,826.19	2,877.00	2,791.76	39.76	14.85	112.14	-4,511.19	698.27	5,472.78	5,426.55	46.23	118.386	
4,500.00	3,904.30	2,936.43	2,848.81	41.08	15.21	112.43	-4,524.19	708.65	5,522.93	5,475.44	47.49	116.304	
4,600.00	3,982.42	3,001.00	2,910.71	42.40	15.61	112.74	-4,538.66	719.98	5,573.67	5,524.89	48.78	114.266	
4,700.00	4,060.54	3,084.29	2,990.59	43.72	16.12	113.13	-4,557.26	734.52	5,624.58	5,574.37	50.21	112.024	
4,800.00	4,138.66	3,147.41	3,051.07	45.05	16.51	113.42	-4,571.47	745.64	5,675.82	5,624.34	51.48	110.255	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	3,220.25	3,120.80	46.37	16.96	113.75	-4,588.04	758.61	5,727.43	5,674.61	52.82	108.427		
5,000.00	4,294.89	3,356.25	3,251.10	47.69	17.79	114.36	-4,618.56	782.83	5,779.06	5,724.40	54.67	105.715		
5,100.00	4,373.01	3,431.64	3,323.36	49.02	18.26	114.69	-4,635.09	796.58	5,830.33	5,774.30	56.03	104.060		
5,200.00	4,451.12	3,500.37	3,389.16	50.34	18.68	114.98	-4,650.28	809.37	5,881.86	5,824.52	57.34	102.587		
5,300.00	4,529.24	3,560.36	3,446.59	51.67	19.06	115.23	-4,663.65	820.42	5,933.74	5,875.18	58.56	101.322		
5,400.00	4,607.36	3,609.36	3,493.48	52.99	19.36	115.43	-4,674.77	829.30	5,986.15	5,926.46	59.69	100.284		
5,500.00	4,685.47	3,719.42	3,598.82	54.32	20.05	115.89	-4,699.89	848.90	6,038.94	5,977.62	61.32	98.480		
5,600.00	4,763.59	3,848.56	3,722.88	55.64	20.83	116.42	-4,727.84	871.40	6,090.86	6,027.77	63.09	96.536		
5,700.00	4,841.71	3,892.75	3,765.34	56.97	21.10	116.60	-4,737.43	879.02	6,143.13	6,078.97	64.16	95.743		
5,800.00	4,919.83	3,919.00	3,790.53	58.30	21.25	116.71	-4,743.25	883.55	6,196.06	6,130.99	65.07	95.220		
5,900.00	4,997.94	3,966.70	3,836.27	59.62	21.55	116.90	-4,754.11	891.61	6,249.62	6,183.47	66.15	94.480		
6,000.00	5,076.06	4,014.00	3,881.60	60.95	21.84	117.09	-4,765.27	899.25	6,303.96	6,236.75	67.21	93.793		
6,100.00	5,154.18	5,230.12	5,072.85	62.28	27.49	122.34	-4,931.26	1,031.91	6,357.95	6,282.29	75.66	84.035		
6,200.00	5,232.29	5,364.93	5,207.63	63.61	27.84	123.02	-4,932.61	1,033.42	6,398.32	6,321.38	76.94	83.158		
6,300.00	5,310.41	5,485.68	5,328.38	64.93	28.14	123.63	-4,932.61	1,034.71	6,438.20	6,360.04	78.16	82.372		
6,400.00	5,388.53	5,565.68	5,408.38	66.26	28.33	124.02	-4,932.35	1,035.35	6,478.29	6,399.06	79.23	81.761		
6,500.00	5,466.64	5,645.88	5,488.57	67.59	28.52	124.42	-4,932.08	1,035.87	6,518.74	6,438.44	80.30	81.182		
6,600.00	5,544.76	5,733.33	5,576.02	68.92	28.73	124.85	-4,931.67	1,036.47	6,559.42	6,478.04	81.37	80.609		
6,700.00	5,622.88	5,811.99	5,654.68	70.25	28.92	125.23	-4,931.28	1,037.03	6,600.39	6,517.98	82.41	80.090		
6,800.00	5,701.00	5,899.20	5,741.88	71.58	29.13	125.65	-4,930.75	1,037.56	6,641.63	6,558.16	83.47	79.573		
6,900.00	5,779.11	5,991.31	5,833.99	72.91	29.35	126.08	-4,929.99	1,037.99	6,683.06	6,598.54	84.52	79.070		
7,000.00	5,857.23	6,081.47	5,924.14	74.23	29.56	126.51	-4,929.05	1,038.36	6,724.65	6,639.10	85.56	78.597		
7,100.00	5,935.35	6,171.30	6,013.97	75.56	29.77	126.93	-4,927.95	1,038.72	6,766.43	6,679.84	86.59	78.146		
7,200.00	6,013.46	6,251.75	6,094.41	76.89	29.96	127.30	-4,926.87	1,039.03	6,808.42	6,720.84	87.58	77.743		
7,300.00	6,091.58	6,361.00	6,203.65	78.22	30.22	127.81	-4,925.24	1,039.53	6,850.60	6,761.95	88.65	77.279		
7,400.00	6,169.70	6,467.55	6,310.17	79.55	30.48	128.29	-4,923.12	1,040.10	6,892.65	6,802.95	89.70	76.840		
7,500.00	6,247.81	6,522.36	6,364.97	80.88	30.61	128.53	-4,922.05	1,040.47	6,934.99	6,844.40	90.59	76.553		
7,600.00	6,325.93	6,578.58	6,421.18	82.21	30.75	128.78	-4,921.25	1,041.08	6,977.88	6,886.41	91.48	76.279		
7,700.00	6,404.05	6,643.32	6,485.92	83.54	30.92	129.06	-4,920.54	1,041.88	7,021.25	6,928.86	92.39	75.996		
7,800.00	6,482.17	6,714.27	6,556.85	84.87	31.10	129.37	-4,919.91	1,042.79	7,065.02	6,971.70	93.32	75.709		
7,900.00	6,560.28	6,802.09	6,644.66	86.20	31.34	129.74	-4,919.19	1,044.03	7,109.08	7,014.77	94.30	75.386		
8,000.00	6,638.40	6,918.14	6,760.69	87.53	31.65	130.23	-4,917.92	1,045.91	7,153.11	7,057.73	95.38	74.995		
8,100.00	6,716.52	6,983.14	6,825.68	88.86	31.82	130.50	-4,916.98	1,046.87	7,197.18	7,100.92	96.26	74.766		
8,200.00	6,794.63	7,036.00	6,878.53	90.20	31.95	130.72	-4,916.22	1,047.13	7,241.80	7,144.71	97.09	74.591		
8,300.00	6,872.75	7,151.19	6,993.70	91.53	32.24	131.21	-4,914.25	1,047.14	7,286.61	7,188.51	98.10	74.274		
8,400.00	6,950.87	7,261.47	7,103.95	92.86	32.51	131.67	-4,911.67	1,046.90	7,331.29	7,232.20	99.09	73.986		
8,500.00	7,028.98	7,349.47	7,191.92	94.19	32.72	132.04	-4,909.11	1,046.35	7,375.93	7,275.94	99.99	73.766		
8,600.00	7,107.10	7,411.05	7,253.46	95.52	32.87	132.29	-4,907.37	1,045.89	7,420.92	7,320.12	100.80	73.621		
8,647.91	7,144.53	7,414.00	7,256.42	96.16	32.87	132.31	-4,907.29	1,045.87	7,442.69	7,341.59	101.10	73.619		
8,650.00	7,146.16	7,414.00	7,256.42	96.18	32.87	132.02	-4,907.29	1,045.87	7,443.64	7,342.53	101.11	73.620		
8,700.00	7,185.66	7,451.96	7,294.36	96.84	32.97	125.14	-4,906.39	1,045.64	7,464.47	7,362.92	101.55	73.507		
8,750.00	7,225.78	7,472.27	7,314.67	97.47	33.02	117.94	-4,906.02	1,045.55	7,481.77	7,379.82	101.95	73.389		
8,800.00	7,266.21	7,508.00	7,350.40	98.08	33.11	110.73	-4,905.54	1,045.47	7,495.42	7,393.01	102.42	73.186		
8,850.00	7,306.63	7,524.57	7,366.97	98.64	33.15	103.60	-4,905.36	1,045.47	7,505.25	7,402.42	102.83	72.986		
8,900.00	7,346.75	7,589.48	7,431.88	99.17	33.32	97.08	-4,904.58	1,045.58	7,511.12	7,407.69	103.43	72.622		
8,950.00	7,386.25	7,642.92	7,485.30	99.64	33.46	91.09	-4,903.88	1,045.87	7,512.92	7,408.93	103.99	72.248		
9,000.00	7,424.84	7,692.80	7,535.18	100.06	33.60	85.80	-4,903.24	1,046.35	7,510.72	7,406.18	104.53	71.851		
9,050.00	7,462.22	7,803.66	7,646.01	100.42	33.90	81.61	-4,901.41	1,048.02	7,504.39	7,399.09	105.30	71.266		
9,100.00	7,498.11	7,843.81	7,686.15	100.74	34.02	77.87	-4,900.61	1,048.76	7,494.04	7,388.25	105.79	70.840		
9,150.00	7,532.24	7,889.23	7,731.55	100.99	34.14	74.95	-4,899.65	1,049.66	7,479.87	7,373.59	106.28	70.379		
9,200.00	7,564.34	7,885.00	7,727.32	101.19	34.13	72.47	-4,899.74	1,049.58	7,462.12	7,355.56	106.56	70.026		
9,250.00	7,594.17	7,917.10	7,759.41	101.34	34.22	70.93	-4,899.09	1,050.15	7,440.85	7,333.89	106.96	69.567		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,930.48	7,772.79	101.45	34.25	69.96	-4,898.84	1,050.35	7,416.33	7,309.07	107.26	69.141		
9,350.00	7,646.13	7,942.48	7,784.78	101.50	34.29	69.67	-4,898.62	1,050.50	7,388.68	7,281.14	107.54	68.707		
9,400.00	7,667.87	7,953.02	7,795.32	101.51	34.32	70.06	-4,898.45	1,050.61	7,358.09	7,250.31	107.78	68.267		
9,450.00	7,686.55	7,979.00	7,821.30	101.48	34.39	71.35	-4,898.05	1,050.82	7,324.82	7,216.75	108.07	67.780		
9,500.00	7,702.04	7,979.00	7,821.30	101.42	34.39	73.23	-4,898.05	1,050.82	7,288.99	7,180.76	108.23	67.349		
9,550.00	7,714.20	7,979.00	7,821.30	101.33	34.39	76.04	-4,898.05	1,050.82	7,250.92	7,142.56	108.37	66.910		
9,600.00	7,722.96	7,979.36	7,821.66	101.20	34.39	79.93	-4,898.04	1,050.82	7,210.89	7,102.39	108.49	66.465		
9,650.00	7,728.24	7,983.97	7,826.26	101.06	34.40	85.17	-4,897.97	1,050.85	7,169.15	7,060.53	108.62	66.005		
9,699.97	7,730.00	7,985.02	7,827.32	100.90	34.40	91.85	-4,897.96	1,050.86	7,126.02	7,017.31	108.71	65.548		
9,800.00	7,730.00	7,983.57	7,825.86	100.56	34.40	91.83	-4,897.98	1,050.85	7,038.66	6,929.77	108.89	64.642		
9,900.00	7,730.00	7,982.11	7,824.41	100.24	34.40	91.80	-4,898.00	1,050.84	6,951.67	6,842.60	109.07	63.738		
10,000.00	7,730.00	7,980.66	7,822.95	99.93	34.39	91.78	-4,898.02	1,050.83	6,865.03	6,755.77	109.25	62.835		
10,100.00	7,730.00	7,979.20	7,821.50	99.64	34.39	91.75	-4,898.04	1,050.82	6,778.75	6,669.31	109.45	61.935		
10,200.00	7,730.00	7,979.00	7,821.30	99.36	34.39	91.75	-4,898.05	1,050.82	6,692.86	6,583.21	109.66	61.034		
10,300.00	7,730.00	7,979.00	7,821.30	99.09	34.39	91.75	-4,898.05	1,050.82	6,607.37	6,497.49	109.88	60.134		
10,400.00	7,730.00	7,979.00	7,821.30	98.84	34.39	91.75	-4,898.05	1,050.82	6,522.29	6,412.18	110.10	59.237		
10,500.00	7,730.00	7,979.00	7,821.30	98.61	34.39	91.75	-4,898.05	1,050.82	6,437.64	6,327.29	110.34	58.343		
10,600.00	7,730.00	7,979.00	7,821.30	98.39	34.39	91.75	-4,898.05	1,050.82	6,353.43	6,242.84	110.59	57.451		
10,700.00	7,730.00	7,979.00	7,821.30	98.18	34.39	91.75	-4,898.05	1,050.82	6,269.69	6,158.84	110.85	56.562		
10,800.00	7,730.00	7,979.00	7,821.30	97.99	34.39	91.75	-4,898.05	1,050.82	6,186.43	6,075.32	111.11	55.677		
10,900.00	7,730.00	7,979.00	7,821.30	97.81	34.39	91.75	-4,898.05	1,050.82	6,103.67	5,992.28	111.39	54.794		
11,000.00	7,730.00	7,979.00	7,821.30	97.64	34.39	91.75	-4,898.05	1,050.82	6,021.44	5,909.76	111.68	53.916		
11,100.00	7,730.00	7,979.00	7,821.30	97.50	34.39	91.75	-4,898.05	1,050.82	5,939.75	5,827.77	111.98	53.041		
11,200.00	7,730.00	7,979.00	7,821.30	97.36	34.39	91.75	-4,898.05	1,050.82	5,858.63	5,746.33	112.30	52.171		
11,300.00	7,730.00	7,979.00	7,821.30	97.24	34.39	91.75	-4,898.05	1,050.82	5,778.10	5,665.48	112.62	51.304		
11,400.00	7,730.00	7,979.00	7,821.30	97.14	34.39	91.75	-4,898.05	1,050.82	5,698.19	5,585.23	112.96	50.443		
11,500.00	7,730.00	7,979.00	7,821.30	97.06	34.39	91.75	-4,898.05	1,050.82	5,618.92	5,505.61	113.32	49.586		
11,600.00	7,730.00	7,979.00	7,821.30	96.98	34.39	91.75	-4,898.05	1,050.82	5,540.33	5,426.64	113.68	48.735		
11,700.00	7,730.00	7,979.00	7,821.30	96.93	34.39	91.75	-4,898.05	1,050.82	5,462.43	5,348.37	114.06	47.890		
11,800.00	7,730.00	7,979.00	7,821.30	96.90	34.39	91.75	-4,898.05	1,050.82	5,385.26	5,270.80	114.46	47.051		
11,900.00	7,730.00	7,979.00	7,821.30	96.88	34.39	91.75	-4,898.05	1,050.82	5,308.86	5,193.99	114.87	46.218		
12,000.00	7,730.00	7,979.00	7,821.30	96.88	34.39	91.75	-4,898.05	1,050.82	5,233.25	5,117.95	115.29	45.391		
12,100.00	7,730.00	7,979.00	7,821.30	96.90	34.39	91.75	-4,898.05	1,050.82	5,158.47	5,042.73	115.73	44.573		
12,200.00	7,730.00	7,962.27	7,804.57	96.94	34.34	91.47	-4,898.30	1,050.70	5,084.50	4,968.42	116.09	43.799		
12,300.00	7,730.00	7,961.40	7,803.70	97.00	34.34	91.46	-4,898.31	1,050.69	5,011.49	4,894.94	116.55	42.998		
12,400.00	7,730.00	7,960.52	7,802.81	97.08	34.34	91.44	-4,898.33	1,050.68	4,939.42	4,822.39	117.03	42.205		
12,500.00	7,730.00	7,959.62	7,801.92	97.18	34.34	91.43	-4,898.34	1,050.68	4,868.34	4,750.81	117.53	41.422		
12,600.00	7,730.00	7,958.73	7,801.03	97.31	34.33	91.41	-4,898.36	1,050.67	4,798.29	4,680.25	118.04	40.648		
12,700.00	7,730.00	7,957.82	7,800.12	97.46	34.33	91.40	-4,898.37	1,050.66	4,729.32	4,610.75	118.57	39.885		
12,800.00	7,730.00	7,956.91	7,799.21	97.64	34.33	91.38	-4,898.38	1,050.65	4,661.47	4,542.35	119.12	39.133		
12,900.00	7,730.00	7,955.98	7,798.28	97.85	34.33	91.37	-4,898.40	1,050.64	4,594.80	4,475.12	119.68	38.393		
13,000.00	7,730.00	7,955.05	7,797.35	98.09	34.32	91.35	-4,898.41	1,050.63	4,529.35	4,409.09	120.26	37.664		
13,100.00	7,730.00	7,954.12	7,796.42	98.35	34.32	91.34	-4,898.43	1,050.62	4,465.18	4,344.33	120.85	36.949		
13,200.00	7,730.00	7,953.17	7,795.47	98.65	34.32	91.32	-4,898.45	1,050.61	4,402.35	4,280.89	121.46	36.247		
13,300.00	7,730.00	7,952.21	7,794.52	98.98	34.31	91.30	-4,898.46	1,050.60	4,340.91	4,218.83	122.08	35.559		
13,400.00	7,730.00	7,951.25	7,793.55	99.34	34.31	91.29	-4,898.48	1,050.59	4,280.93	4,158.22	122.71	34.886		
13,500.00	7,730.00	7,950.28	7,792.58	99.74	34.31	91.27	-4,898.49	1,050.58	4,222.46	4,099.10	123.36	34.230		
13,600.00	7,730.00	7,949.30	7,791.60	100.17	34.31	91.26	-4,898.51	1,050.57	4,165.57	4,041.56	124.01	33.589		
13,700.00	7,730.00	7,948.31	7,790.61	100.65	34.30	91.24	-4,898.53	1,050.56	4,110.33	3,985.65	124.68	32.966		
13,800.00	7,730.00	7,947.31	7,789.61	101.16	34.30	91.22	-4,898.54	1,050.55	4,056.80	3,931.44	125.36	32.362		
13,900.00	7,730.00	7,946.30	7,788.61	101.71	34.30	91.21	-4,898.56	1,050.54	4,005.05	3,879.01	126.04	31.776		
14,000.00	7,730.00	7,945.29	7,787.59	102.30	34.30	91.19	-4,898.58	1,050.53	3,955.15	3,828.42	126.73	31.210		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,944.26	7,786.56	102.93	34.29	91.17	-4,898.59	1,050.52	3,907.18	3,779.76	127.42	30.664		
14,200.00	7,730.00	7,943.23	7,785.53	103.60	34.29	91.16	-4,898.61	1,050.51	3,861.20	3,733.09	128.11	30.140		
14,300.00	7,730.00	7,942.18	7,784.49	104.32	34.29	91.14	-4,898.63	1,050.49	3,817.28	3,688.48	128.80	29.638		
14,400.00	7,730.00	7,941.13	7,783.43	105.07	34.28	91.12	-4,898.65	1,050.48	3,775.50	3,646.02	129.48	29.159		
14,500.00	7,730.00	7,940.06	7,782.37	105.86	34.28	91.10	-4,898.67	1,050.47	3,735.94	3,605.78	130.15	28.704		
14,600.00	7,730.00	7,938.99	7,781.29	106.70	34.28	91.08	-4,898.69	1,050.46	3,698.65	3,567.83	130.82	28.273		
14,700.00	7,730.00	7,937.91	7,780.21	107.57	34.28	91.07	-4,898.70	1,050.44	3,663.71	3,532.25	131.47	27.868		
14,800.00	7,730.00	7,936.81	7,779.11	108.48	34.27	91.05	-4,898.72	1,050.43	3,631.19	3,499.10	132.10	27.489		
14,900.00	7,730.00	7,935.71	7,778.01	109.43	34.27	91.03	-4,898.74	1,050.41	3,601.16	3,468.45	132.71	27.136		
15,000.00	7,730.00	7,934.59	7,776.89	110.42	34.27	91.01	-4,898.76	1,050.40	3,573.67	3,440.37	133.30	26.810		
15,100.00	7,730.00	7,933.46	7,775.77	111.43	34.26	90.99	-4,898.78	1,050.39	3,548.79	3,414.93	133.85	26.512		
15,200.00	7,730.00	7,932.33	7,774.63	112.49	34.26	90.97	-4,898.80	1,050.37	3,526.56	3,392.18	134.38	26.243		
15,300.00	7,730.00	7,931.18	7,773.48	113.57	34.26	90.96	-4,898.82	1,050.36	3,507.05	3,372.17	134.88	26.002		
15,400.00	7,730.00	7,930.02	7,772.33	114.68	34.25	90.94	-4,898.85	1,050.34	3,490.29	3,354.96	135.33	25.790		
15,500.00	7,730.00	7,928.85	7,771.16	115.82	34.25	90.92	-4,898.87	1,050.32	3,476.34	3,340.58	135.75	25.608		
15,600.00	7,730.00	7,927.67	7,769.97	116.99	34.25	90.90	-4,898.89	1,050.31	3,465.21	3,329.08	136.13	25.456		
15,700.00	7,730.00	7,926.47	7,768.78	118.19	34.24	90.88	-4,898.91	1,050.29	3,456.93	3,320.48	136.46	25.333		
15,800.00	7,730.00	7,925.27	7,767.58	119.41	34.24	90.86	-4,898.93	1,050.27	3,451.54	3,314.80	136.74	25.241		
15,900.00	7,730.00	7,924.05	7,766.36	120.65	34.24	90.84	-4,898.95	1,050.26	3,449.04	3,312.06	136.98	25.179		
15,936.35	7,730.00	7,923.61	7,765.91	121.11	34.24	90.83	-4,898.96	1,050.25	3,448.85	3,311.79	137.06	25.164 CC, ES		
16,000.00	7,730.00	7,922.82	7,765.13	121.91	34.23	90.82	-4,898.98	1,050.24	3,449.43	3,312.26	137.17	25.147		
16,100.00	7,730.00	7,921.58	7,763.89	123.20	34.23	90.80	-4,899.00	1,050.22	3,452.73	3,315.42	137.31	25.145 SF		
16,200.00	7,730.00	7,920.32	7,762.63	124.50	34.23	90.77	-4,899.02	1,050.20	3,458.91	3,321.50	137.40	25.173		
16,300.00	7,730.00	7,919.06	7,761.37	125.82	34.22	90.75	-4,899.05	1,050.18	3,467.96	3,330.51	137.45	25.231		
16,400.00	7,730.00	7,917.78	7,760.09	127.16	34.22	90.73	-4,899.07	1,050.16	3,479.87	3,342.42	137.44	25.318		
16,500.00	7,730.00	7,916.48	7,758.79	128.52	34.22	90.71	-4,899.10	1,050.14	3,494.59	3,357.20	137.40	25.434		
16,600.00	7,730.00	7,915.18	7,757.49	129.89	34.21	90.69	-4,899.12	1,050.12	3,512.10	3,374.80	137.30	25.579		
16,700.00	7,730.00	7,913.86	7,756.17	131.27	34.21	90.67	-4,899.15	1,050.10	3,532.36	3,395.19	137.17	25.752		
16,800.00	7,730.00	7,912.52	7,754.83	132.67	34.21	90.65	-4,899.17	1,050.08	3,555.31	3,418.32	136.99	25.953		
16,900.00	7,730.00	7,911.17	7,753.48	134.09	34.20	90.62	-4,899.20	1,050.06	3,580.91	3,444.14	136.77	26.181		
17,000.00	7,730.00	7,909.81	7,752.12	135.51	34.20	90.60	-4,899.23	1,050.04	3,609.10	3,472.58	136.52	26.435		
17,100.00	7,730.00	7,908.43	7,750.74	136.95	34.19	90.58	-4,899.25	1,050.01	3,639.82	3,503.58	136.24	26.716		
17,200.00	7,730.00	7,907.04	7,749.35	138.40	34.19	90.55	-4,899.28	1,049.99	3,673.00	3,537.07	135.93	27.021		
17,300.00	7,730.00	7,905.63	7,747.95	139.85	34.19	90.53	-4,899.31	1,049.96	3,708.59	3,573.00	135.59	27.351		
17,400.00	7,730.00	7,904.21	7,746.53	141.32	34.18	90.51	-4,899.34	1,049.94	3,746.50	3,611.27	135.23	27.705		
17,500.00	7,730.00	7,902.78	7,745.09	142.80	34.18	90.48	-4,899.37	1,049.91	3,786.68	3,651.83	134.85	28.082		
17,600.00	7,730.00	7,901.32	7,743.64	144.28	34.17	90.46	-4,899.40	1,049.89	3,829.04	3,694.60	134.44	28.481		
17,700.00	7,730.00	7,899.85	7,742.17	145.78	34.17	90.43	-4,899.43	1,049.86	3,873.53	3,739.50	134.02	28.902		
17,800.00	7,730.00	7,898.37	7,740.69	147.28	34.17	90.41	-4,899.46	1,049.84	3,920.06	3,786.46	133.59	29.343		
17,900.00	7,730.00	7,896.87	7,739.18	148.79	34.16	90.39	-4,899.49	1,049.81	3,968.56	3,835.41	133.15	29.805		
18,000.00	7,730.00	7,895.35	7,737.67	150.31	34.16	90.36	-4,899.52	1,049.78	4,018.97	3,886.26	132.70	30.286		
18,100.00	7,730.00	7,893.82	7,736.14	151.83	34.16	90.34	-4,899.55	1,049.75	4,071.20	3,938.93	132.27	30.778		
18,200.00	7,730.00	7,892.28	7,734.59	153.37	34.16	90.32	-4,899.57	1,049.72	4,125.20	3,993.39	131.81	31.297		
18,300.00	7,730.00	7,890.74	7,733.06	154.90	34.15	90.30	-4,899.59	1,049.69	4,180.90	4,049.56	131.34	31.833		
18,400.00	7,730.00	7,889.19	7,731.51	156.45	34.15	90.28	-4,899.62	1,049.66	4,238.22	4,107.35	130.87	32.385		
18,500.00	7,730.00	7,887.63	7,729.96	158.00	34.14	90.25	-4,899.64	1,049.63	4,297.10	4,166.70	130.40	32.953		
18,600.00	7,730.00	7,886.07	7,728.41	159.55	34.13	90.23	-4,899.67	1,049.60	4,357.49	4,227.55	129.94	33.535		
18,700.00	7,730.00	7,884.50	7,726.86	161.11	34.13	90.17	-4,899.69	1,049.55	4,419.31	4,289.83	129.47	34.133		
18,800.00	7,730.00	7,882.93	7,725.31	162.68	34.12	90.13	-4,899.71	1,049.51	4,482.50	4,353.48	129.02	34.744		
18,900.00	7,730.00	7,881.36	7,723.76	164.25	34.11	90.10	-4,899.74	1,049.46	4,547.02	4,418.45	128.56	35.368		
19,000.00	7,730.00	7,879.79	7,722.21	165.83	34.11	90.06	-4,899.76	1,049.42	4,612.80	4,484.68	128.12	36.004		
19,100.00	7,730.00	7,878.22	7,720.66	167.41	34.10	90.02	-4,899.79	1,049.37	4,679.79	4,552.11	127.68	36.653		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 22-T1N-R68W - EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		92-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,730.00	7,872.85	7,715.18	168.99	34.10	89.99	-4,900.00	1,049.33	4,747.95	4,620.70	127.25	37.312	
19,300.00	7,730.00	7,870.67	7,712.99	170.58	34.09	89.95	-4,900.05	1,049.29	4,817.21	4,690.38	126.82	37.983	
19,400.00	7,730.00	7,868.49	7,710.82	172.17	34.08	89.91	-4,900.09	1,049.24	4,887.54	4,761.13	126.41	38.664	
19,430.54	7,730.00	7,867.83	7,710.15	172.66	34.08	89.90	-4,900.11	1,049.23	4,909.22	4,782.93	126.28	38.874	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	135.38	-2,139.01	2,111.12	3,005.75					
100.00	100.00	53.26	53.26	0.13	0.09	135.37	-2,138.95	2,111.17	3,005.35	3,005.13	0.22	N/A		
200.00	200.00	159.53	159.53	0.49	0.37	135.37	-2,138.54	2,111.40	3,005.24	3,004.37	0.86	3,475.843		
300.00	300.00	258.91	258.91	0.85	0.72	135.36	-2,138.22	2,111.30	3,004.93	3,003.36	1.57	1,912.147		
400.00	400.00	354.39	354.38	1.21	1.05	135.37	-2,138.32	2,111.01	3,004.79	3,002.53	2.26	1,329.400		
500.00	500.00	454.93	454.93	1.57	1.40	135.38	-2,138.53	2,110.71	3,004.73	3,001.76	2.97	1,012.002		
600.00	599.98	556.60	556.60	1.92	1.76	70.08	-2,138.92	2,110.11	3,004.00	3,000.32	3.68	815.948		
700.00	699.84	658.45	658.44	2.28	2.12	70.23	-2,139.35	2,109.42	3,002.04	2,997.65	4.40	682.770		
800.00	799.45	768.02	768.00	2.64	2.51	70.49	-2,139.85	2,108.37	2,998.76	2,993.61	5.15	582.367		
900.00	898.70	869.87	869.84	3.02	2.88	70.82	-2,140.30	2,106.96	2,994.04	2,988.16	5.89	508.553		
1,000.00	997.47	957.24	957.21	3.41	3.19	71.20	-2,140.83	2,105.77	2,988.40	2,981.80	6.59	453.393		
1,100.00	1,095.62	1,046.07	1,046.02	3.84	3.51	71.65	-2,141.75	2,104.75	2,982.16	2,974.84	7.32	407.215		
1,200.00	1,193.06	1,148.75	1,148.69	4.29	3.87	72.25	-2,142.93	2,103.55	2,975.07	2,966.93	8.13	365.719		
1,300.00	1,289.64	1,252.00	1,251.92	4.78	4.24	72.93	-2,143.91	2,102.03	2,966.77	2,957.78	8.98	330.202		
1,400.00	1,385.27	1,346.46	1,346.37	5.32	4.58	73.65	-2,144.91	2,100.46	2,957.67	2,947.83	9.85	300.421		
1,500.00	1,479.82	1,441.23	1,441.11	5.90	4.92	74.46	-2,145.98	2,098.83	2,947.94	2,937.19	10.75	274.127		
1,600.00	1,573.17	1,534.92	1,534.78	6.53	5.26	75.33	-2,147.01	2,097.15	2,937.63	2,925.91	11.71	250.829		
1,700.00	1,665.21	1,624.20	1,624.04	7.23	5.58	76.23	-2,148.07	2,095.50	2,926.96	2,914.25	12.71	230.261		
1,800.00	1,755.84	1,713.06	1,712.89	7.98	5.90	77.20	-2,149.13	2,093.94	2,916.09	2,902.32	13.77	211.741		
1,900.00	1,844.94	1,804.13	1,803.93	8.80	6.23	78.25	-2,150.14	2,092.37	2,905.10	2,890.19	14.91	194.887		
2,000.00	1,932.39	1,900.73	1,900.51	9.68	6.58	79.42	-2,151.00	2,090.62	2,893.98	2,877.85	16.13	179.411		
2,100.00	2,018.11	1,991.79	1,991.55	10.63	6.91	80.59	-2,151.53	2,088.91	2,882.85	2,865.45	17.41	165.617		
2,200.00	2,101.97	2,077.27	2,077.02	11.65	7.21	81.75	-2,151.85	2,087.30	2,872.02	2,853.28	18.74	153.274		
2,300.00	2,183.88	2,162.42	2,162.16	12.74	7.52	82.95	-2,152.03	2,085.75	2,861.71	2,841.57	20.14	142.068		
2,400.00	2,263.74	2,248.17	2,247.90	13.90	7.82	84.20	-2,151.94	2,084.31	2,852.05	2,830.43	21.63	131.878		
2,431.61	2,288.54	2,275.29	2,275.02	14.29	7.92	84.60	-2,151.85	2,083.87	2,849.15	2,827.04	22.11	128.863		
2,500.00	2,341.97	2,327.62	2,327.34	15.13	8.11	85.26	-2,151.60	2,083.03	2,843.27	2,820.12	23.15	122.826		
2,600.00	2,420.08	2,397.60	2,397.31	16.37	8.36	86.16	-2,151.37	2,082.00	2,835.99	2,811.33	24.66	114.995		
2,700.00	2,498.20	2,471.42	2,471.12	17.63	8.62	87.10	-2,151.26	2,080.97	2,830.25	2,804.05	26.20	108.015		
2,800.00	2,576.32	2,567.21	2,566.89	18.89	8.96	88.33	-2,151.06	2,079.44	2,825.84	2,798.02	27.83	101.546		
2,900.00	2,654.43	2,656.23	2,655.90	20.17	9.28	89.48	-2,150.34	2,077.62	2,822.24	2,792.81	29.43	95.884		
3,000.00	2,732.55	2,754.95	2,754.59	21.45	9.63	90.76	-2,149.21	2,075.44	2,819.84	2,788.76	31.07	90.751		
3,100.00	2,810.67	2,848.33	2,847.92	22.74	9.96	91.96	-2,147.24	2,073.20	2,818.06	2,785.38	32.69	86.209		
3,177.97	2,871.57	2,907.99	2,907.54	23.75	10.17	92.74	-2,145.99	2,071.56	2,817.62	2,783.72	33.90	83.107		
3,200.00	2,888.78	2,920.99	2,920.54	24.03	10.21	92.90	-2,145.73	2,071.21	2,817.67	2,783.44	34.23	82.308		
3,300.00	2,966.90	2,985.79	2,985.30	25.33	10.44	93.74	-2,144.56	2,069.60	2,818.99	2,783.24	35.74	78.864		
3,400.00	3,045.02	3,059.36	3,058.85	26.63	10.70	94.69	-2,143.36	2,068.12	2,821.98	2,784.70	37.28	75.706		
3,500.00	3,123.13	3,131.45	3,130.92	27.94	10.96	95.61	-2,142.12	2,067.01	2,826.45	2,787.66	38.79	72.867		
3,600.00	3,201.25	3,198.56	3,198.01	29.24	11.19	96.47	-2,141.17	2,066.08	2,832.56	2,792.29	40.27	70.335		
3,700.00	3,279.37	3,265.19	3,264.63	30.55	11.43	97.31	-2,140.45	2,065.27	2,840.36	2,798.62	41.74	68.052		
3,800.00	3,357.49	3,332.94	3,332.38	31.86	11.67	98.17	-2,139.93	2,064.66	2,849.82	2,806.63	43.19	65.982		
3,900.00	3,435.60	3,402.14	3,401.58	33.18	11.91	99.03	-2,139.58	2,064.25	2,860.87	2,816.24	44.63	64.101		
4,000.00	3,513.72	3,478.42	3,477.85	34.49	12.18	99.98	-2,139.30	2,063.91	2,873.39	2,827.31	46.08	62.360		
4,100.00	3,591.84	3,555.54	3,554.98	35.81	12.46	100.94	-2,139.05	2,063.56	2,887.25	2,839.74	47.51	60.774		
4,200.00	3,669.95	3,633.39	3,632.83	37.12	12.73	101.90	-2,138.82	2,063.21	2,902.40	2,853.48	48.92	59.330		
4,300.00	3,748.07	3,711.71	3,711.14	38.44	13.01	102.86	-2,138.57	2,062.89	2,918.82	2,868.51	50.31	58.015		
4,400.00	3,826.19	3,789.57	3,789.00	39.76	13.29	103.80	-2,138.32	2,062.61	2,936.47	2,884.80	51.68	56.823		
4,500.00	3,904.30	3,864.85	3,864.28	41.08	13.55	104.71	-2,138.10	2,062.37	2,955.38	2,902.37	53.01	55.750		
4,600.00	3,982.42	3,941.50	3,940.94	42.40	13.83	105.62	-2,137.94	2,062.14	2,975.56	2,921.23	54.33	54.771		
4,700.00	4,060.54	4,020.54	4,019.97	43.72	14.11	106.56	-2,137.81	2,061.64	2,996.91	2,941.28	55.63	53.873		
4,800.00	4,138.66	4,102.86	4,102.28	45.05	14.40	107.53	-2,137.59	2,060.92	3,019.33	2,962.41	56.92	53.046		
4,900.00	4,216.77	4,185.81	4,185.23	46.37	14.70	108.50	-2,137.24	2,059.90	3,042.77	2,984.58	58.19	52.293		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft			
Survey Program: 100-MWD OWSG															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,000.00	4,294.89	4,271.96	4,271.37	47.69	15.01	109.51	-2,136.70	2,058.55	3,067.16	3,007.72	59.44	51.600				
5,100.00	4,373.01	4,353.09	4,352.48	49.02	15.30	110.44	-2,135.99	2,057.26	3,092.47	3,031.82	60.65	50.988				
5,200.00	4,451.12	4,428.75	4,428.13	50.34	15.57	111.31	-2,135.31	2,055.98	3,118.84	3,057.03	61.81	50.456				
5,300.00	4,529.24	4,500.33	4,499.69	51.67	15.83	112.12	-2,134.76	2,054.61	3,146.38	3,083.44	62.93	49.996				
5,400.00	4,607.36	4,595.96	4,595.29	52.99	16.17	113.20	-2,133.82	2,052.39	3,174.79	3,110.67	64.13	49.509				
5,500.00	4,685.47	4,673.02	4,672.32	54.32	16.45	114.06	-2,132.81	2,050.38	3,203.99	3,138.78	65.22	49.129				
5,600.00	4,763.59	4,748.00	4,747.27	55.64	16.71	114.88	-2,131.85	2,048.42	3,234.22	3,167.95	66.28	48.800				
5,700.00	4,841.71	4,824.08	4,823.32	56.97	16.99	115.71	-2,130.93	2,046.48	3,265.47	3,198.15	67.32	48.510				
5,800.00	4,919.83	4,904.41	4,903.62	58.30	17.28	116.57	-2,129.93	2,044.51	3,297.62	3,229.26	68.35	48.245				
5,900.00	4,997.94	4,977.46	4,976.64	59.62	17.54	117.34	-2,129.03	2,042.76	3,330.68	3,261.35	69.33	48.038				
6,000.00	5,076.06	5,054.59	5,053.75	60.95	17.82	118.15	-2,128.15	2,040.96	3,364.69	3,294.37	70.31	47.853				
6,100.00	5,154.18	5,132.63	5,131.76	62.28	18.10	118.95	-2,127.23	2,039.19	3,399.52	3,328.24	71.28	47.695				
6,200.00	5,232.29	5,214.23	5,213.33	63.61	18.39	119.78	-2,126.27	2,037.36	3,435.16	3,362.93	72.24	47.555				
6,300.00	5,310.41	5,321.40	5,320.47	64.93	18.77	120.84	-2,124.43	2,035.47	3,471.11	3,397.82	73.29	47.362				
6,400.00	5,388.53	5,405.15	5,404.20	66.26	19.07	121.65	-2,122.69	2,034.39	3,507.49	3,433.27	74.22	47.256				
6,500.00	5,466.64	5,488.61	5,487.63	67.59	19.36	122.44	-2,120.90	2,033.62	3,544.48	3,469.34	75.14	47.173				
6,600.00	5,544.76	5,566.73	5,565.73	68.92	19.63	123.16	-2,119.22	2,033.20	3,582.10	3,506.09	76.01	47.124				
6,700.00	5,622.88	5,642.95	5,641.93	70.25	19.90	123.85	-2,117.68	2,033.02	3,620.43	3,543.56	76.87	47.100				
6,800.00	5,701.00	5,717.93	5,716.91	71.58	20.16	124.52	-2,116.24	2,032.89	3,659.47	3,581.77	77.70	47.098				
6,900.00	5,779.11	5,791.90	5,790.87	72.91	20.42	125.17	-2,114.91	2,032.77	3,699.22	3,620.71	78.51	47.116				
7,000.00	5,857.23	5,869.75	5,868.70	74.23	20.69	125.85	-2,113.57	2,032.66	3,739.63	3,660.30	79.33	47.140				
7,100.00	5,935.35	5,947.10	5,946.04	75.56	20.96	126.50	-2,112.26	2,032.56	3,780.64	3,700.51	80.13	47.180				
7,200.00	6,013.46	6,022.58	6,021.51	76.89	21.22	127.14	-2,111.01	2,032.45	3,822.26	3,741.34	80.91	47.239				
7,300.00	6,091.58	6,095.34	6,094.26	78.22	21.47	127.74	-2,109.91	2,032.35	3,864.51	3,782.84	81.67	47.320				
7,400.00	6,169.70	6,179.65	6,178.56	79.55	21.77	128.42	-2,108.63	2,032.23	3,907.30	3,824.83	82.47	47.379				
7,500.00	6,247.81	6,266.34	6,265.24	80.88	22.07	129.11	-2,107.12	2,032.06	3,950.46	3,867.19	83.27	47.442				
7,600.00	6,325.93	6,338.70	6,337.58	82.21	22.32	129.68	-2,105.78	2,031.90	3,994.03	3,910.04	83.99	47.555				
7,700.00	6,404.05	6,401.98	6,400.86	83.54	22.54	130.17	-2,104.86	2,031.81	4,038.35	3,953.69	84.65	47.705				
7,800.00	6,482.17	6,477.91	6,476.78	84.87	22.81	130.75	-2,103.94	2,031.73	4,083.29	3,997.92	85.37	47.829				
7,900.00	6,560.28	6,554.43	6,553.29	86.20	23.08	131.32	-2,103.04	2,031.61	4,128.73	4,042.64	86.09	47.960				
8,000.00	6,638.40	6,629.57	6,628.43	87.53	23.34	131.87	-2,102.19	2,031.48	4,174.63	4,087.85	86.79	48.103				
8,100.00	6,716.52	6,702.51	6,701.37	88.86	23.60	132.39	-2,101.47	2,031.35	4,221.05	4,133.58	87.47	48.259				
8,200.00	6,794.63	6,782.20	6,781.05	90.20	23.88	132.96	-2,100.82	2,031.46	4,267.89	4,179.72	88.17	48.404				
8,300.00	6,872.75	6,883.22	6,882.07	91.53	24.22	133.65	-2,099.97	2,032.08	4,314.95	4,225.96	88.99	48.489				
8,400.00	6,950.87	6,968.54	6,967.38	92.86	24.51	134.22	-2,098.94	2,032.79	4,362.03	4,272.32	89.71	48.621				
8,500.00	7,028.98	7,052.25	7,051.08	94.19	24.80	134.77	-2,097.89	2,033.53	4,409.40	4,318.98	90.43	48.762				
8,600.00	7,107.10	7,136.01	7,134.83	95.52	25.09	135.31	-2,096.75	2,034.35	4,457.02	4,365.88	91.13	48.906				
8,647.91	7,144.53	7,175.17	7,173.98	96.16	25.22	135.56	-2,096.20	2,034.75	4,479.93	4,388.46	91.47	48.979				
8,650.00	7,146.16	7,176.88	7,175.69	96.18	25.23	135.27	-2,096.18	2,034.76	4,480.92	4,389.44	91.48	48.982				
8,700.00	7,185.66	7,220.62	7,219.43	96.84	25.38	128.33	-2,095.54	2,035.21	4,503.00	4,411.15	91.85	49.028				
8,750.00	7,225.78	7,268.16	7,266.96	97.47	25.54	121.21	-2,094.80	2,035.73	4,521.51	4,429.27	92.24	49.020				
8,800.00	7,266.21	7,319.99	7,318.78	98.08	25.72	114.07	-2,093.92	2,036.36	4,536.33	4,443.67	92.66	48.957				
8,850.00	7,306.63	7,379.63	7,378.40	98.64	25.92	107.18	-2,092.73	2,037.20	4,547.30	4,454.18	93.12	48.832				
8,900.00	7,346.75	7,420.75	7,419.50	99.17	26.06	100.58	-2,091.81	2,037.84	4,554.41	4,460.93	93.48	48.721				
8,950.00	7,386.25	7,451.82	7,450.56	99.64	26.17	94.50	-2,091.15	2,038.30	4,557.82	4,464.04	93.78	48.603				
9,000.00	7,424.84	7,482.09	7,480.82	100.06	26.27	89.15	-2,090.56	2,038.71	4,557.52	4,463.47	94.06	48.456				
9,050.00	7,462.22	7,513.18	7,511.91	100.42	26.38	84.59	-2,090.00	2,039.10	4,553.56	4,459.24	94.32	48.276				
9,100.00	7,498.11	7,545.70	7,544.42	100.74	26.49	80.85	-2,089.41	2,039.46	4,545.95	4,451.37	94.58	48.065				
9,150.00	7,532.24	7,576.47	7,575.18	100.99	26.60	77.89	-2,088.86	2,039.76	4,534.75	4,439.95	94.81	47.832				
9,200.00	7,564.34	7,605.41	7,604.12	101.19	26.70	75.65	-2,088.33	2,039.99	4,520.08	4,425.08	95.00	47.580				
9,250.00	7,594.17	7,632.81	7,631.52	101.34	26.79	74.12	-2,087.85	2,040.20	4,502.04	4,406.87	95.16	47.308				
9,300.00	7,621.50	7,657.86	7,656.56	101.45	26.88	73.26	-2,087.41	2,040.40	4,480.78	4,385.48	95.29	47.020				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,680.37	7,679.06	101.50	26.96	73.04	-2,087.04	2,040.58	4,456.46	4,361.07	95.39	46.718		
9,400.00	7,667.87	7,700.22	7,698.91	101.51	27.03	73.47	-2,086.71	2,040.73	4,429.26	4,333.80	95.45	46.403		
9,450.00	7,686.55	8,019.86	8,018.03	101.48	28.14	79.25	-2,072.18	2,048.11	4,399.21	4,302.18	97.03	45.337		
9,500.00	7,702.04	8,018.55	8,016.73	101.42	28.13	81.21	-2,072.30	2,048.03	4,365.97	4,268.99	96.97	45.022		
9,550.00	7,714.20	8,026.81	8,024.96	101.33	28.16	84.14	-2,071.71	2,048.39	4,330.69	4,233.74	96.95	44.671		
9,600.00	7,722.96	8,031.85	8,029.98	101.20	28.18	87.90	-2,071.36	2,048.61	4,293.63	4,196.74	96.89	44.314		
9,650.00	7,728.24	8,033.61	8,031.74	101.06	28.18	92.53	-2,071.23	2,048.69	4,255.05	4,158.23	96.82	43.950		
9,699.97	7,730.00	8,032.07	8,030.20	100.90	28.18	98.06	-2,071.34	2,048.62	4,215.22	4,118.50	96.72	43.581		
9,800.00	7,730.00	8,025.63	8,023.78	100.56	28.16	97.91	-2,071.80	2,048.34	4,134.82	4,038.31	96.52	42.841		
9,900.00	7,730.00	8,019.13	8,017.31	100.24	28.13	97.76	-2,072.25	2,048.05	4,055.31	3,959.01	96.30	42.111		
10,000.00	7,730.00	10,000.00	7,983.54	99.93	35.21	96.98	-2,074.63	2,046.70	3,976.71	3,873.96	102.75	38.705		
10,100.00	7,730.00	8,014.58	8,012.77	99.64	28.12	97.66	-2,072.57	2,047.87	3,899.08	3,803.17	95.90	40.657		
10,200.00	7,730.00	7,998.24	7,996.49	99.36	28.06	97.28	-2,073.75	2,047.15	3,822.48	3,726.86	95.62	39.977		
10,300.00	7,730.00	7,982.37	7,980.68	99.09	28.01	96.92	-2,074.87	2,046.49	3,746.96	3,651.63	95.33	39.306		
10,400.00	7,730.00	7,966.97	7,965.32	98.84	27.95	96.56	-2,075.96	2,045.89	3,672.58	3,577.55	95.03	38.647		
10,500.00	7,730.00	10,500.00	7,844.58	98.61	36.76	93.77	-2,082.82	2,042.59	3,599.17	3,495.92	103.26	34.857		
10,600.00	7,730.00	10,600.00	7,840.23	98.39	37.10	93.67	-2,083.01	2,042.51	3,527.13	3,423.78	103.35	34.127		
10,700.00	7,730.00	7,753.30	7,751.98	98.18	27.21	91.62	-2,085.78	2,041.20	3,456.43	3,363.60	92.83	37.234		
10,800.00	7,730.00	7,750.87	7,749.55	97.99	27.20	91.57	-2,085.82	2,041.18	3,387.17	3,294.62	92.55	36.599		
10,900.00	7,730.00	7,748.48	7,747.16	97.81	27.20	91.51	-2,085.87	2,041.15	3,319.48	3,227.22	92.27	35.977		
11,000.00	7,730.00	7,746.12	7,744.80	97.64	27.19	91.46	-2,085.91	2,041.13	3,253.45	3,161.47	91.98	35.371		
11,100.00	7,730.00	7,743.80	7,742.48	97.50	27.18	91.40	-2,085.96	2,041.11	3,189.20	3,097.50	91.70	34.780		
11,200.00	7,730.00	7,741.51	7,740.19	97.36	27.17	91.35	-2,086.00	2,041.09	3,126.81	3,035.40	91.42	34.204		
11,300.00	7,730.00	7,739.25	7,737.93	97.24	27.16	91.30	-2,086.04	2,041.07	3,066.42	2,975.28	91.14	33.645		
11,400.00	7,730.00	7,737.02	7,735.70	97.14	27.16	91.25	-2,086.08	2,041.05	3,008.14	2,917.27	90.87	33.104		
11,500.00	7,730.00	7,734.82	7,733.50	97.06	27.15	91.20	-2,086.12	2,041.03	2,952.10	2,861.49	90.61	32.580		
11,600.00	7,730.00	7,732.64	7,731.33	96.98	27.14	91.15	-2,086.16	2,041.01	2,898.42	2,808.06	90.37	32.074		
11,700.00	7,730.00	7,730.50	7,729.19	96.93	27.13	91.10	-2,086.20	2,040.99	2,847.25	2,757.11	90.14	31.588		
11,800.00	7,730.00	7,728.39	7,727.08	96.90	27.13	91.05	-2,086.24	2,040.97	2,798.71	2,708.78	89.93	31.121		
11,900.00	7,730.00	7,726.31	7,724.99	96.88	27.12	91.00	-2,086.27	2,040.95	2,752.94	2,663.19	89.75	30.674		
12,000.00	7,730.00	7,724.25	7,722.93	96.88	27.11	90.95	-2,086.31	2,040.93	2,710.10	2,620.50	89.60	30.248		
12,100.00	7,730.00	7,722.22	7,720.90	96.90	27.10	90.90	-2,086.34	2,040.92	2,670.31	2,580.83	89.48	29.843		
12,200.00	7,730.00	7,720.21	7,718.90	96.94	27.10	90.86	-2,086.38	2,040.90	2,633.72	2,544.32	89.40	29.461		
12,300.00	7,730.00	7,718.23	7,716.92	97.00	27.09	90.81	-2,086.41	2,040.88	2,600.46	2,511.10	89.36	29.101		
12,400.00	7,730.00	7,716.28	7,714.97	97.08	27.08	90.77	-2,086.45	2,040.86	2,570.66	2,481.29	89.37	28.765		
12,500.00	7,730.00	7,714.35	7,713.04	97.18	27.08	90.72	-2,086.48	2,040.85	2,544.44	2,455.02	89.42	28.454		
12,600.00	7,730.00	7,712.44	7,711.13	97.31	27.07	90.68	-2,086.51	2,040.83	2,521.92	2,432.39	89.53	28.168		
12,700.00	7,730.00	7,710.56	7,709.25	97.46	27.06	90.63	-2,086.54	2,040.82	2,503.19	2,413.50	89.69	27.908		
12,800.00	7,730.00	7,708.70	7,707.39	97.64	27.06	90.59	-2,086.57	2,040.80	2,488.34	2,398.43	89.91	27.676		
12,900.00	7,730.00	7,706.87	7,705.56	97.85	27.05	90.55	-2,086.60	2,040.79	2,477.44	2,387.26	90.18	27.473		
13,000.00	7,730.00	7,705.06	7,703.75	98.09	27.05	90.50	-2,086.63	2,040.77	2,470.54	2,380.04	90.50	27.300		
13,100.00	7,730.00	7,703.27	7,701.96	98.35	27.04	90.46	-2,086.66	2,040.76	2,467.68	2,376.81	90.86	27.158		
13,120.72	7,730.00	7,702.90	7,701.59	98.41	27.04	90.45	-2,086.67	2,040.75	2,467.59	2,376.64	90.95	27.132 CC, ES		
13,200.00	7,730.00	7,701.50	7,700.19	98.65	27.03	90.42	-2,086.69	2,040.74	2,468.86	2,377.59	91.28	27.048		
13,300.00	7,730.00	7,699.77	7,698.46	98.98	27.03	90.38	-2,086.72	2,040.73	2,474.09	2,382.37	91.73	26.972		
13,400.00	7,730.00	7,698.13	7,696.82	99.34	27.02	90.34	-2,086.75	2,040.72	2,483.34	2,391.13	92.21	26.931		
13,500.00	7,730.00	7,696.49	7,695.18	99.74	27.02	90.31	-2,086.77	2,040.70	2,496.56	2,403.84	92.72	26.925 SF		
13,600.00	7,730.00	7,694.84	7,693.54	100.17	27.01	90.27	-2,086.80	2,040.69	2,513.69	2,420.44	93.26	26.955		
13,700.00	7,730.00	7,693.19	7,691.88	100.65	27.00	90.23	-2,086.83	2,040.68	2,534.66	2,440.85	93.80	27.021		
13,800.00	7,730.00	7,691.53	7,690.22	101.16	27.00	90.19	-2,086.85	2,040.66	2,559.36	2,465.00	94.36	27.124		
13,900.00	7,730.00	7,689.86	7,688.55	101.71	26.99	90.15	-2,086.88	2,040.65	2,587.69	2,492.77	94.92	27.263		
14,000.00	7,730.00	7,688.19	7,686.88	102.30	26.99	90.11	-2,086.91	2,040.64	2,619.53	2,524.06	95.47	27.438		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,686.51	7,685.20	102.93	26.98	90.07	-2,086.94	2,040.63	2,654.76	2,558.74	96.02	27.648		
14,200.00	7,730.00	7,684.82	7,683.51	103.60	26.97	90.04	-2,086.96	2,040.61	2,693.24	2,596.68	96.56	27.893		
14,300.00	7,730.00	7,683.12	7,681.82	104.32	26.97	90.00	-2,086.99	2,040.60	2,734.84	2,637.76	97.08	28.172		
14,400.00	7,730.00	7,681.42	7,680.11	105.07	26.96	89.96	-2,087.02	2,040.59	2,779.41	2,681.83	97.58	28.483		
14,500.00	7,730.00	7,679.71	7,678.40	105.86	26.96	89.92	-2,087.05	2,040.57	2,826.82	2,728.75	98.07	28.825		
14,600.00	7,730.00	7,677.99	7,676.69	106.70	26.95	89.88	-2,087.08	2,040.56	2,876.92	2,778.39	98.53	29.198		
14,700.00	7,730.00	7,676.27	7,674.97	107.57	26.95	89.84	-2,087.11	2,040.54	2,929.58	2,830.61	98.97	29.599		
14,800.00	7,730.00	7,674.54	7,673.24	108.48	26.94	89.80	-2,087.13	2,040.53	2,984.66	2,885.27	99.39	30.029		
14,900.00	7,730.00	7,672.80	7,671.50	109.43	26.93	89.76	-2,087.16	2,040.52	3,042.03	2,942.24	99.79	30.484		
15,000.00	7,730.00	7,671.06	7,669.75	110.42	26.93	89.72	-2,087.19	2,040.50	3,101.57	3,001.40	100.17	30.964		
15,100.00	7,730.00	7,669.31	7,668.00	111.43	26.92	89.67	-2,087.22	2,040.49	3,163.14	3,062.62	100.52	31.468		
15,200.00	7,730.00	7,667.55	7,666.24	112.49	26.91	89.63	-2,087.25	2,040.48	3,226.64	3,125.79	100.85	31.994		
15,300.00	7,730.00	7,665.78	7,664.48	113.57	26.91	89.59	-2,087.28	2,040.46	3,291.95	3,190.79	101.16	32.541		
15,400.00	7,730.00	7,664.01	7,662.70	114.68	26.90	89.55	-2,087.31	2,040.45	3,358.97	3,257.51	101.46	33.108		
15,500.00	7,730.00	7,662.22	7,660.92	115.82	26.90	89.51	-2,087.34	2,040.43	3,427.59	3,325.87	101.73	33.693		
15,600.00	7,730.00	7,660.43	7,659.13	116.99	26.89	89.47	-2,087.37	2,040.42	3,497.73	3,395.75	101.98	34.297		
15,700.00	7,730.00	7,658.64	7,657.34	118.19	26.88	89.43	-2,087.40	2,040.41	3,569.29	3,467.07	102.22	34.917		
15,800.00	7,730.00	7,656.83	7,655.53	119.41	26.88	89.39	-2,087.43	2,040.39	3,642.19	3,539.74	102.45	35.553		
15,900.00	7,730.00	7,655.02	7,653.72	120.65	26.87	89.34	-2,087.46	2,040.38	3,716.35	3,613.70	102.65	36.203		
16,000.00	7,730.00	7,653.20	7,651.90	121.91	26.87	89.30	-2,087.49	2,040.36	3,791.69	3,688.85	102.85	36.867		
16,100.00	7,730.00	7,651.37	7,650.07	123.20	26.86	89.26	-2,087.53	2,040.35	3,868.16	3,765.13	103.03	37.545		
16,200.00	7,730.00	7,649.54	7,648.24	124.50	26.85	89.22	-2,087.56	2,040.34	3,945.67	3,842.47	103.20	38.234		
16,300.00	7,730.00	7,647.69	7,646.39	125.82	26.85	89.17	-2,087.59	2,040.32	4,024.17	3,920.82	103.35	38.936		
16,400.00	7,730.00	7,645.84	7,644.54	127.16	26.84	89.13	-2,087.62	2,040.31	4,103.61	4,000.11	103.50	39.648		
16,500.00	7,730.00	7,643.98	7,642.68	128.52	26.83	89.09	-2,087.65	2,040.29	4,183.93	4,080.29	103.64	40.370		
16,600.00	7,730.00	7,642.12	7,640.82	129.89	26.83	89.04	-2,087.68	2,040.28	4,265.09	4,161.32	103.77	41.102		
16,700.00	7,730.00	7,640.24	7,638.94	131.27	26.82	89.00	-2,087.72	2,040.26	4,347.02	4,243.13	103.89	41.843		
16,800.00	7,730.00	7,638.36	7,637.06	132.67	26.81	88.96	-2,087.75	2,040.25	4,429.70	4,325.70	104.00	42.592		
16,900.00	7,730.00	7,636.47	7,635.17	134.09	26.81	88.91	-2,087.78	2,040.23	4,513.08	4,408.97	104.11	43.350		
17,000.00	7,730.00	7,634.57	7,633.27	135.51	26.80	88.87	-2,087.82	2,040.22	4,597.12	4,492.91	104.21	44.115		
17,100.00	7,730.00	7,632.66	7,631.36	136.95	26.79	88.82	-2,087.85	2,040.20	4,681.79	4,577.49	104.30	44.887		
17,200.00	7,730.00	7,630.74	7,629.45	138.40	26.79	88.78	-2,087.88	2,040.19	4,767.05	4,662.66	104.39	45.666		
17,300.00	7,730.00	7,628.82	7,627.52	139.85	26.78	88.74	-2,087.92	2,040.17	4,852.87	4,748.40	104.47	46.452		
17,400.00	7,730.00	7,626.88	7,625.59	141.32	26.77	88.69	-2,087.95	2,040.16	4,939.23	4,834.68	104.55	47.243		
17,500.00	7,730.00	7,624.94	7,623.65	142.80	26.77	88.65	-2,087.98	2,040.14	5,026.09	4,921.47	104.62	48.040		
17,600.00	7,730.00	7,622.99	7,621.70	144.28	26.76	88.60	-2,088.02	2,040.13	5,113.43	5,008.74	104.69	48.842		
17,700.00	7,730.00	7,621.03	7,619.74	145.78	26.75	88.55	-2,088.05	2,040.11	5,201.23	5,096.47	104.76	49.650		
17,800.00	7,730.00	7,619.07	7,617.77	147.28	26.75	88.51	-2,088.09	2,040.10	5,289.45	5,184.63	104.82	50.462		
17,900.00	7,730.00	7,617.09	7,615.80	148.79	26.74	88.46	-2,088.12	2,040.08	5,378.09	5,273.21	104.88	51.279		
18,000.00	7,730.00	7,615.11	7,613.81	150.31	26.73	88.42	-2,088.16	2,040.07	5,467.12	5,362.19	104.94	52.099		
18,100.00	7,730.00	7,613.11	7,611.82	151.83	26.73	88.37	-2,088.20	2,040.05	5,556.53	5,451.54	104.99	52.924		
18,200.00	7,730.00	7,611.11	7,609.81	153.37	26.72	88.32	-2,088.23	2,040.04	5,646.29	5,541.24	105.04	53.753		
18,300.00	7,730.00	7,609.10	7,607.80	154.90	26.71	88.28	-2,088.27	2,040.02	5,736.38	5,631.29	105.09	54.585		
18,400.00	7,730.00	7,607.08	7,605.78	156.45	26.70	88.23	-2,088.30	2,040.01	5,826.80	5,721.66	105.14	55.421		
18,500.00	7,730.00	7,605.05	7,603.75	158.00	26.70	88.18	-2,088.34	2,039.99	5,917.53	5,812.35	105.18	56.260		
18,600.00	7,730.00	7,603.01	7,601.72	159.55	26.69	88.14	-2,088.38	2,039.97	6,008.55	5,903.32	105.23	57.101		
18,700.00	7,730.00	7,600.96	7,599.67	161.11	26.68	88.09	-2,088.41	2,039.96	6,099.85	5,994.58	105.27	57.946		
18,800.00	7,730.00	7,599.14	7,597.85	162.68	26.68	88.05	-2,088.45	2,039.94	6,191.42	6,086.11	105.31	58.793		
18,900.00	7,730.00	7,597.54	7,596.25	164.25	26.67	88.01	-2,088.48	2,039.93	6,283.25	6,177.90	105.35	59.642		
19,000.00	7,730.00	7,595.94	7,594.65	165.83	26.67	87.97	-2,088.50	2,039.92	6,375.32	6,269.93	105.39	60.494		
19,100.00	7,730.00	7,594.33	7,593.04	167.41	26.66	87.94	-2,088.53	2,039.91	6,467.62	6,362.20	105.43	61.347		
19,200.00	7,730.00	7,592.73	7,591.44	168.99	26.66	87.90	-2,088.56	2,039.89	6,560.15	6,454.69	105.46	62.203		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		100-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,591.13	7,589.84	170.58	26.65	87.86	-2,088.59	2,039.88	6,652.90	6,547.40	105.50	63.061	
19,400.00	7,730.00	7,589.53	7,588.24	172.17	26.64	87.82	-2,088.62	2,039.87	6,745.86	6,640.32	105.54	63.921	
19,430.54	7,730.00	7,589.04	7,587.75	172.66	26.64	87.81	-2,088.63	2,039.86	6,774.28	6,668.73	105.55	64.183	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.79	765.09	2,078.68	2,215.37					
100.00	100.00	82.65	82.65	0.13	0.13	69.79	765.06	2,078.24	2,214.70	2,214.43	0.27	8,327.989		
200.00	200.00	232.56	232.51	0.49	0.65	69.74	765.72	2,074.90	2,212.87	2,211.73	1.14	1,938.750		
300.00	300.00	478.92	477.97	0.85	1.58	69.45	770.54	2,055.39	2,205.87	2,203.45	2.42	911.265		
400.00	400.00	626.70	624.11	1.21	2.19	69.07	778.17	2,034.93	2,194.59	2,191.25	3.34	656.431		
500.00	500.00	732.06	727.63	1.57	2.67	68.68	787.47	2,017.70	2,182.39	2,178.27	4.12	529.266		
600.00	599.98	816.42	810.15	1.92	3.06	2.96	797.28	2,003.20	2,168.77	2,163.93	4.84	447.912		
700.00	699.84	895.43	887.12	2.28	3.45	2.56	808.58	1,989.42	2,152.52	2,146.97	5.56	387.198		
800.00	799.45	970.90	960.36	2.64	3.83	2.13	821.17	1,976.28	2,133.89	2,127.61	6.28	339.821		
900.00	898.70	1,072.70	1,058.71	3.02	4.36	1.48	840.46	1,958.43	2,112.77	2,105.62	7.15	295.350		
1,000.00	997.47	1,169.22	1,151.88	3.41	4.87	0.83	858.42	1,940.75	2,087.67	2,079.66	8.01	260.519		
1,100.00	1,095.62	1,262.08	1,241.78	3.84	5.37	0.22	874.90	1,924.35	2,059.73	2,050.87	8.86	232.445		
1,200.00	1,193.06	1,359.45	1,335.54	4.29	5.91	-0.52	893.94	1,906.22	2,028.55	2,018.79	9.76	207.900		
1,300.00	1,289.64	1,449.75	1,422.01	4.78	6.44	-1.30	913.07	1,888.58	1,994.22	1,983.58	10.64	187.388		
1,400.00	1,385.27	1,536.15	1,504.54	5.32	6.95	-2.11	932.05	1,871.47	1,957.07	1,945.55	11.52	169.836		
1,500.00	1,479.82	1,617.39	1,582.15	5.90	7.44	-2.94	949.99	1,855.50	1,917.25	1,904.87	12.38	154.810		
1,600.00	1,573.17	1,701.25	1,662.44	6.53	7.93	-3.83	968.14	1,839.54	1,874.95	1,861.68	13.27	141.338		
1,700.00	1,665.21	1,789.03	1,746.60	7.23	8.45	-4.84	986.77	1,822.90	1,829.81	1,815.63	14.17	129.098		
1,800.00	1,755.84	1,873.51	1,827.63	7.98	8.95	-5.90	1,004.52	1,806.91	1,781.95	1,766.87	15.07	118.230		
1,900.00	1,844.94	1,956.89	1,907.60	8.80	9.44	-7.06	1,022.00	1,791.03	1,731.37	1,715.40	15.97	108.391		
2,000.00	1,932.39	2,030.84	1,978.75	9.68	9.87	-8.19	1,036.86	1,777.45	1,678.44	1,661.61	16.83	99.736		
2,100.00	2,018.11	2,124.24	2,068.77	10.63	10.41	-9.71	1,055.01	1,760.41	1,622.88	1,605.09	17.79	91.220		
2,200.00	2,101.97	2,207.29	2,148.58	11.65	10.90	-11.32	1,071.42	1,744.35	1,564.42	1,545.69	18.73	83.534		
2,300.00	2,183.88	2,281.56	2,219.79	12.74	11.35	-13.02	1,086.42	1,729.52	1,503.58	1,483.93	19.65	76.514		
2,400.00	2,263.74	2,352.15	2,287.46	13.90	11.77	-14.88	1,100.73	1,715.39	1,440.76	1,420.17	20.59	69.985		
2,431.61	2,288.54	2,374.08	2,308.50	14.29	11.90	-15.51	1,105.13	1,711.03	1,420.51	1,399.62	20.89	67.997		
2,500.00	2,341.97	2,421.44	2,353.98	15.13	12.19	-16.62	1,114.49	1,701.72	1,376.68	1,355.13	21.55	63.878		
2,600.00	2,420.08	2,486.75	2,416.75	16.37	12.57	-18.24	1,127.32	1,689.07	1,313.43	1,290.89	22.54	58.276		
2,700.00	2,498.20	2,549.98	2,477.55	17.63	12.95	-19.91	1,139.84	1,677.00	1,251.37	1,227.79	23.58	53.069		
2,800.00	2,576.32	2,612.43	2,537.52	18.89	13.32	-21.69	1,152.65	1,665.18	1,190.84	1,166.15	24.69	48.223		
2,900.00	2,654.43	2,677.62	2,600.10	20.17	13.70	-23.70	1,166.27	1,653.05	1,131.98	1,106.06	25.91	43.687		
3,000.00	2,732.55	2,741.79	2,661.76	21.45	14.08	-25.80	1,179.76	1,641.45	1,074.96	1,047.75	27.21	39.500		
3,100.00	2,810.67	2,808.76	2,726.25	22.74	14.47	-28.12	1,193.73	1,630.01	1,020.11	991.47	28.64	35.622		
3,200.00	2,888.78	2,884.61	2,799.32	24.03	14.91	-30.95	1,209.40	1,617.04	967.16	936.92	30.24	31.986		
3,300.00	2,966.90	2,960.53	2,872.50	25.33	15.34	-34.01	1,224.74	1,603.87	916.21	884.23	31.98	28.649		
3,400.00	3,045.02	3,031.64	2,941.16	26.63	15.75	-37.07	1,238.68	1,591.70	867.76	833.92	33.83	25.648		
3,500.00	3,123.13	3,103.05	3,010.24	27.94	16.15	-40.34	1,252.44	1,579.98	822.54	786.71	35.83	22.957		
3,600.00	3,201.25	3,175.17	3,079.83	29.24	16.56	-43.91	1,266.59	1,567.37	780.95	742.95	37.99	20.555		
3,700.00	3,279.37	3,241.61	3,143.72	30.55	16.95	-47.45	1,280.05	1,555.08	743.97	703.72	40.25	18.484		
3,800.00	3,357.49	3,314.50	3,213.71	31.86	17.38	-51.57	1,295.04	1,541.30	712.42	669.76	42.65	16.703		
3,900.00	3,435.60	3,387.94	3,284.40	33.18	17.82	-55.87	1,309.51	1,527.67	686.36	641.29	45.07	15.230		
4,000.00	3,513.72	3,457.26	3,351.18	34.49	18.22	-60.07	1,323.07	1,515.00	666.93	619.59	47.35	14.087		
4,100.00	3,591.84	3,519.94	3,411.45	35.81	18.59	-63.97	1,335.72	1,503.29	655.20	605.84	49.36	13.274		
4,193.75	3,665.07	3,583.83	3,472.69	37.04	18.97	-68.01	1,349.08	1,490.91	651.78	600.68	51.10	12.755 CC		
4,200.00	3,669.95	3,588.42	3,477.09	37.12	19.00	-68.30	1,350.03	1,490.02	651.80	600.58	51.21	12.727 ES		
4,300.00	3,748.07	3,662.31	3,548.02	38.44	19.44	-72.96	1,365.19	1,475.92	656.00	603.14	52.87	12.409		
4,400.00	3,826.19	3,738.01	3,620.90	39.76	19.89	-77.64	1,380.33	1,462.14	667.39	613.13	54.25	12.301 SF		
4,500.00	3,904.30	3,803.85	3,684.32	41.08	20.27	-81.61	1,393.49	1,450.31	685.96	630.77	55.19	12.429		
4,600.00	3,982.42	3,871.25	3,749.14	42.40	20.67	-85.55	1,407.23	1,437.96	711.57	655.65	55.93	12.723		
4,700.00	4,060.54	3,940.04	3,815.25	43.72	21.08	-89.41	1,421.40	1,425.26	743.37	686.84	56.53	13.150		
4,800.00	4,138.66	4,011.04	3,883.47	45.05	21.50	-93.19	1,436.01	1,412.17	780.42	723.35	57.06	13.677		
4,900.00	4,216.77	4,090.07	3,959.56	46.37	21.96	-97.15	1,451.92	1,397.86	821.61	763.93	57.68	14.244		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,158.84	4,025.88	47.69	22.36	-100.38	1,465.36	1,385.64	866.25	808.19	58.06	14.920		
5,100.00	4,373.01	4,224.02	4,088.66	49.02	22.74	-103.26	1,478.20	1,373.68	914.64	856.29	58.35	15.676		
5,200.00	4,451.12	4,290.73	4,152.85	50.34	23.13	-106.03	1,491.35	1,361.13	966.18	907.52	58.66	16.470		
5,300.00	4,529.24	4,365.99	4,225.29	51.67	23.57	-108.94	1,505.88	1,346.85	1,020.13	960.98	59.15	17.248		
5,400.00	4,607.36	4,438.02	4,294.74	52.99	23.99	-111.53	1,519.47	1,333.41	1,075.82	1,016.24	59.58	18.057		
5,500.00	4,685.47	4,505.62	4,359.84	54.32	24.39	-113.73	1,533.01	1,321.24	1,133.29	1,073.32	59.97	18.896		
5,600.00	4,763.59	4,565.56	4,417.49	55.64	24.74	-115.56	1,545.02	1,310.05	1,192.67	1,132.42	60.24	19.797		
5,700.00	4,841.71	4,645.70	4,494.60	56.97	25.21	-117.87	1,560.47	1,294.65	1,253.51	1,192.61	60.90	20.583		
5,800.00	4,919.83	5,800.00	4,598.38	58.30	31.43	-120.71	1,578.81	1,276.23	1,313.33	1,246.94	66.39	19.783		
5,900.00	4,997.94	4,899.24	4,742.04	59.62	26.50	-124.30	1,598.94	1,255.64	1,370.91	1,307.38	63.53	21.579		
6,000.00	5,076.06	4,999.38	4,840.83	60.95	26.94	-126.54	1,610.37	1,243.99	1,427.75	1,363.43	64.32	22.199		
6,100.00	5,154.18	5,123.04	4,963.25	62.28	27.45	-129.09	1,623.11	1,232.01	1,484.09	1,418.75	65.34	22.715		
6,200.00	5,232.29	5,279.96	5,119.55	63.61	27.98	-132.14	1,633.42	1,223.05	1,537.31	1,470.82	66.49	23.122		
6,300.00	5,310.41	5,402.74	5,242.23	64.93	28.32	-134.41	1,637.05	1,219.86	1,588.52	1,521.34	67.18	23.647		
6,400.00	5,388.53	5,507.50	5,346.98	66.26	28.57	-136.29	1,637.64	1,219.11	1,638.73	1,571.06	67.67	24.217		
6,500.00	5,466.64	5,595.92	5,435.40	67.59	28.77	-137.79	1,637.48	1,219.32	1,688.97	1,620.91	68.06	24.817		
6,600.00	5,544.76	5,673.20	5,512.67	68.92	28.94	-139.03	1,637.51	1,219.77	1,739.76	1,671.37	68.39	25.437		
6,700.00	5,622.88	5,747.84	5,587.31	70.25	29.11	-140.18	1,637.38	1,220.00	1,791.44	1,722.72	68.72	26.070		
6,800.00	5,701.00	5,823.42	5,662.90	71.58	29.27	-141.29	1,637.27	1,220.13	1,843.89	1,774.84	69.05	26.704		
6,900.00	5,779.11	5,897.03	5,736.50	72.91	29.44	-142.32	1,637.21	1,220.11	1,897.09	1,827.71	69.38	27.343		
7,000.00	5,857.23	5,969.70	5,809.17	74.23	29.62	-143.28	1,637.30	1,219.92	1,951.04	1,881.32	69.72	27.984		
7,100.00	5,935.35	6,052.37	5,891.85	75.56	29.83	-144.33	1,637.67	1,219.63	2,005.59	1,935.46	70.14	28.595		
7,200.00	6,013.46	6,132.15	5,971.62	76.89	30.03	-145.28	1,637.99	1,219.63	2,060.31	1,989.76	70.54	29.206		
7,300.00	6,091.58	6,209.55	6,049.02	78.22	30.22	-146.16	1,638.56	1,219.50	2,115.60	2,044.65	70.95	29.819		
7,400.00	6,169.70	6,302.37	6,141.83	79.55	30.46	-147.16	1,639.49	1,219.81	2,170.86	2,099.39	71.47	30.375		
7,500.00	6,247.81	6,381.68	6,221.13	80.88	30.66	-147.96	1,640.43	1,220.30	2,226.27	2,154.36	71.91	30.959		
7,600.00	6,325.93	6,460.93	6,300.38	82.21	30.86	-148.73	1,641.25	1,220.81	2,281.98	2,209.62	72.36	31.538		
7,700.00	6,404.05	6,544.25	6,413.66	83.54	31.15	-149.75	1,643.22	1,222.49	2,337.28	2,264.23	73.05	31.994		
7,800.00	6,482.17	6,633.55	6,472.95	84.87	31.30	-150.26	1,644.23	1,223.50	2,392.71	2,319.32	73.39	32.602		
7,900.00	6,560.28	6,704.07	6,543.46	86.20	31.48	-150.86	1,644.84	1,224.20	2,448.96	2,375.16	73.80	33.185		
8,000.00	6,638.40	6,791.77	6,631.14	87.53	31.71	-151.56	1,646.42	1,225.08	2,505.43	2,431.09	74.34	33.701		
8,100.00	6,716.52	6,890.17	6,729.53	88.86	31.96	-152.34	1,646.77	1,226.74	2,561.61	2,486.67	74.94	34.183		
8,200.00	6,794.63	6,940.00	6,779.35	90.20	32.08	-152.73	1,646.73	1,227.87	2,617.80	2,542.59	75.20	34.810		
8,300.00	6,872.75	6,990.77	6,830.11	91.53	32.21	-153.11	1,646.79	1,228.46	2,675.04	2,599.56	75.48	35.441		
8,400.00	6,950.87	7,035.00	6,874.34	92.86	32.33	-153.43	1,647.01	1,227.91	2,733.96	2,658.25	75.70	36.114		
8,500.00	7,028.98	7,123.95	6,963.27	94.19	32.58	-154.04	1,647.78	1,226.43	2,793.59	2,717.30	76.29	36.616		
8,600.00	7,107.10	7,213.88	7,053.19	95.52	32.83	-154.63	1,648.51	1,225.76	2,852.61	2,775.71	76.90	37.096		
8,647.91	7,144.53	7,255.25	7,094.57	96.16	32.94	-154.90	1,648.72	1,225.57	2,880.84	2,803.67	77.17	37.330		
8,650.00	7,146.16	7,257.05	7,096.37	96.18	32.95	-155.31	1,648.73	1,225.57	2,882.08	2,804.89	77.18	37.340		
8,700.00	7,185.66	7,300.58	7,139.89	96.84	33.07	-165.36	1,648.99	1,225.43	2,911.65	2,834.17	77.48	37.579		
8,750.00	7,225.78	7,348.86	7,188.17	97.47	33.20	-175.75	1,649.28	1,225.37	2,941.24	2,863.41	77.82	37.794		
8,800.00	7,266.21	7,400.11	7,239.42	98.08	33.33	173.81	1,649.44	1,225.49	2,970.53	2,892.33	78.19	37.989		
8,850.00	7,306.63	7,441.29	7,280.60	98.64	33.44	163.57	1,649.48	1,225.69	2,999.34	2,920.85	78.49	38.212		
8,900.00	7,346.75	7,479.39	7,318.70	99.17	33.54	153.79	1,649.51	1,225.85	3,027.61	2,948.83	78.78	38.433		
8,950.00	7,386.25	7,517.48	7,356.79	99.64	33.64	144.69	1,649.54	1,225.99	3,055.15	2,976.08	79.07	38.641		
9,000.00	7,424.84	7,556.18	7,395.49	100.06	33.74	136.42	1,649.48	1,226.12	3,081.78	3,002.41	79.37	38.829		
9,050.00	7,462.22	7,593.78	7,433.08	100.42	33.84	129.02	1,649.33	1,226.26	3,107.35	3,027.68	79.67	39.002		
9,100.00	7,498.11	7,630.38	7,469.69	100.74	33.93	122.51	1,649.13	1,226.41	3,131.76	3,051.78	79.98	39.156		
9,150.00	7,532.24	7,665.27	7,504.58	100.99	34.02	116.82	1,648.98	1,226.55	3,154.88	3,074.59	80.29	39.291		
9,200.00	7,564.34	7,698.14	7,537.45	101.19	34.11	111.89	1,648.86	1,226.69	3,176.65	3,096.03	80.61	39.406		
9,250.00	7,594.17	7,731.00	7,570.30	101.34	34.19	107.67	1,648.72	1,226.84	3,196.96	3,116.01	80.95	39.492		
9,300.00	7,621.50	7,761.34	7,600.65	101.45	34.27	104.07	1,648.52	1,227.01	3,215.77	3,134.47	81.30	39.555		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,788.94	7,628.24	101.50	34.34	101.01	1,648.27	1,227.19	3,233.02	3,151.37	81.65	39.595		
9,400.00	7,667.87	7,809.25	7,648.55	101.51	34.39	98.35	1,648.07	1,227.33	3,248.69	3,166.71	81.98	39.625		
9,450.00	7,686.55	7,826.02	7,665.32	101.48	34.43	96.11	1,647.91	1,227.42	3,262.76	3,180.44	82.33	39.632		
9,500.00	7,702.04	7,839.96	7,679.26	101.42	34.47	94.27	1,647.78	1,227.50	3,275.20	3,192.52	82.68	39.612		
9,550.00	7,714.20	7,850.98	7,690.28	101.33	34.50	92.78	1,647.68	1,227.55	3,285.97	3,202.91	83.06	39.564		
9,600.00	7,722.96	7,859.01	7,698.31	101.20	34.52	91.63	1,647.61	1,227.58	3,295.04	3,211.60	83.44	39.488		
9,650.00	7,728.24	7,864.00	7,703.30	101.06	34.53	90.79	1,647.57	1,227.60	3,302.38	3,218.53	83.85	39.385		
9,699.97	7,730.00	7,865.91	7,705.21	100.90	34.53	90.26	1,647.55	1,227.61	3,307.96	3,223.69	84.27	39.254		
9,800.00	7,730.00	7,866.67	7,705.97	100.56	34.54	90.28	1,647.54	1,227.61	3,318.85	3,233.72	85.13	38.984		
9,900.00	7,730.00	7,867.42	7,706.72	100.24	34.54	90.29	1,647.54	1,227.62	3,332.70	3,246.70	86.01	38.749		
10,000.00	7,730.00	7,868.17	7,707.47	99.93	34.54	90.30	1,647.53	1,227.62	3,349.49	3,262.60	86.88	38.551		
10,100.00	7,730.00	7,868.92	7,708.21	99.64	34.54	90.32	1,647.52	1,227.62	3,369.15	3,281.39	87.76	38.391		
10,200.00	7,730.00	7,869.66	7,708.96	99.36	34.54	90.33	1,647.52	1,227.62	3,391.66	3,303.03	88.63	38.268		
10,300.00	7,730.00	7,870.40	7,709.70	99.09	34.55	90.34	1,647.51	1,227.63	3,416.94	3,327.45	89.49	38.183		
10,400.00	7,730.00	7,871.14	7,710.44	98.84	34.55	90.36	1,647.51	1,227.63	3,444.94	3,354.61	90.33	38.136		
10,500.00	7,730.00	7,871.88	7,711.18	98.61	34.55	90.37	1,647.50	1,227.63	3,475.59	3,384.43	91.16	38.125		
10,600.00	7,730.00	7,872.62	7,711.91	98.39	34.55	90.38	1,647.49	1,227.63	3,508.83	3,416.86	91.97	38.151		
10,700.00	7,730.00	7,873.35	7,712.65	98.18	34.55	90.39	1,647.49	1,227.64	3,544.57	3,451.81	92.76	38.212		
10,800.00	7,730.00	7,874.08	7,713.38	97.99	34.55	90.41	1,647.48	1,227.64	3,582.76	3,489.23	93.52	38.308		
10,900.00	7,730.00	7,874.81	7,714.11	97.81	34.56	90.42	1,647.47	1,227.64	3,623.30	3,529.03	94.26	38.438		
11,000.00	7,730.00	7,875.53	7,714.83	97.64	34.56	90.43	1,647.47	1,227.64	3,666.11	3,571.14	94.98	38.600		
11,100.00	7,730.00	7,876.26	7,715.56	97.50	34.56	90.44	1,647.46	1,227.65	3,711.14	3,615.47	95.66	38.793		
11,200.00	7,730.00	7,876.98	7,716.28	97.36	34.56	90.46	1,647.46	1,227.65	3,758.28	3,661.95	96.32	39.017		
11,300.00	7,730.00	7,877.70	7,717.00	97.24	34.56	90.47	1,647.45	1,227.65	3,807.46	3,710.51	96.96	39.270		
11,400.00	7,730.00	7,878.42	7,717.72	97.14	34.57	90.48	1,647.44	1,227.65	3,858.61	3,761.05	97.56	39.550		
11,500.00	7,730.00	7,879.13	7,718.43	97.06	34.57	90.49	1,647.44	1,227.66	3,911.65	3,813.51	98.14	39.857		
11,600.00	7,730.00	7,879.85	7,719.14	96.98	34.57	90.51	1,647.43	1,227.66	3,966.50	3,867.81	98.70	40.189		
11,700.00	7,730.00	7,880.56	7,719.85	96.93	34.57	90.52	1,647.43	1,227.66	4,023.09	3,923.87	99.22	40.546		
11,800.00	7,730.00	7,881.27	7,720.56	96.90	34.57	90.53	1,647.42	1,227.66	4,081.35	3,981.62	99.72	40.926		
11,900.00	7,730.00	7,881.97	7,721.27	96.88	34.57	90.54	1,647.41	1,227.66	4,141.20	4,040.99	100.20	41.328		
12,000.00	7,730.00	7,882.68	7,721.97	96.88	34.58	90.56	1,647.41	1,227.67	4,202.57	4,101.92	100.66	41.752		
12,100.00	7,730.00	7,883.38	7,722.68	96.90	34.58	90.57	1,647.40	1,227.67	4,265.41	4,164.32	101.09	42.195		
12,200.00	7,730.00	7,884.08	7,723.38	96.94	34.58	90.58	1,647.40	1,227.67	4,329.65	4,228.15	101.50	42.658		
12,300.00	7,730.00	7,884.78	7,724.07	97.00	34.58	90.59	1,647.39	1,227.67	4,395.22	4,293.34	101.89	43.139		
12,400.00	7,730.00	7,885.47	7,724.77	97.08	34.58	90.60	1,647.38	1,227.67	4,462.07	4,359.82	102.25	43.637		
12,500.00	7,730.00	7,886.17	7,725.46	97.18	34.59	90.62	1,647.38	1,227.68	4,530.14	4,427.54	102.60	44.152		
12,600.00	7,730.00	7,886.86	7,726.16	97.31	34.59	90.63	1,647.37	1,227.68	4,599.38	4,496.45	102.93	44.683		
12,700.00	7,730.00	7,887.55	7,726.85	97.46	34.59	90.64	1,647.37	1,227.68	4,669.73	4,566.49	103.25	45.229		
12,800.00	7,730.00	7,888.24	7,727.53	97.64	34.59	90.65	1,647.36	1,227.68	4,741.15	4,637.61	103.54	45.789		
12,900.00	7,730.00	7,889.00	7,728.30	97.85	34.59	90.67	1,647.35	1,227.68	4,813.59	4,709.76	103.83	46.362		
13,000.00	7,730.00	7,889.77	7,729.07	98.09	34.59	90.68	1,647.35	1,227.69	4,887.00	4,782.90	104.09	46.949		
13,100.00	7,730.00	7,890.64	7,729.94	98.35	34.60	90.69	1,647.34	1,227.69	4,961.33	4,856.99	104.34	47.548		
13,200.00	7,730.00	7,891.52	7,730.82	98.65	34.60	90.71	1,647.33	1,227.69	5,036.56	4,931.98	104.58	48.158		
13,300.00	7,730.00	7,892.40	7,731.70	98.98	34.60	90.73	1,647.33	1,227.69	5,112.63	5,007.82	104.81	48.780		
13,400.00	7,730.00	7,893.29	7,732.59	99.34	34.60	90.74	1,647.32	1,227.70	5,189.52	5,084.50	105.02	49.412		
13,500.00	7,730.00	7,894.18	7,733.48	99.74	34.61	90.76	1,647.31	1,227.70	5,267.18	5,161.96	105.23	50.055		
13,600.00	7,730.00	7,895.07	7,734.37	100.17	34.61	90.77	1,647.30	1,227.70	5,345.59	5,240.17	105.42	50.707		
13,700.00	7,730.00	7,895.97	7,735.27	100.65	34.61	90.79	1,647.30	1,227.70	5,424.70	5,319.10	105.60	51.368		
13,800.00	7,730.00	7,896.87	7,736.17	101.16	34.61	90.80	1,647.29	1,227.71	5,504.50	5,398.72	105.78	52.039		
13,900.00	7,730.00	7,897.78	7,737.08	101.71	34.62	90.82	1,647.28	1,227.71	5,584.94	5,479.00	105.94	52.717		
14,000.00	7,730.00	7,898.69	7,737.98	102.30	34.62	90.83	1,647.27	1,227.71	5,666.01	5,559.92	106.10	53.404		
14,100.00	7,730.00	7,899.60	7,738.90	102.93	34.62	90.85	1,647.27	1,227.71	5,747.68	5,641.43	106.24	54.099		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 95-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,900.52	7,739.82	103.60	34.62	90.87	1,647.26	1,227.72	5,829.91	5,723.53	106.38	54.800		
14,300.00	7,730.00	7,901.44	7,740.74	104.32	34.62	90.88	1,647.25	1,227.72	5,912.69	5,806.18	106.52	55.509		
14,400.00	7,730.00	7,902.37	7,741.67	105.07	34.63	90.90	1,647.24	1,227.72	5,996.00	5,889.36	106.64	56.224		
14,500.00	7,730.00	7,903.30	7,742.60	105.86	34.63	90.92	1,647.23	1,227.72	6,079.81	5,973.05	106.77	56.946		
14,600.00	7,730.00	7,904.24	7,743.53	106.70	34.63	90.93	1,647.23	1,227.73	6,164.11	6,057.23	106.88	57.673		
14,700.00	7,730.00	7,905.18	7,744.47	107.57	34.63	90.95	1,647.22	1,227.73	6,248.86	6,141.87	106.99	58.407		
14,800.00	7,730.00	7,906.12	7,745.42	108.48	34.64	90.96	1,647.21	1,227.73	6,334.06	6,226.97	107.09	59.146		
14,900.00	7,730.00	7,907.07	7,746.36	109.43	34.64	90.98	1,647.20	1,227.73	6,419.69	6,312.50	107.19	59.890		
15,000.00	7,730.00	7,908.02	7,747.32	110.42	34.64	91.00	1,647.19	1,227.74	6,505.73	6,398.44	107.29	60.640		
15,100.00	7,730.00	7,908.98	7,748.27	111.43	34.64	91.01	1,647.19	1,227.74	6,592.16	6,484.79	107.37	61.394		
15,200.00	7,730.00	7,909.94	7,749.24	112.49	34.65	91.03	1,647.18	1,227.74	6,678.97	6,571.51	107.46	62.153		
15,300.00	7,730.00	7,910.91	7,750.20	113.57	34.65	91.05	1,647.17	1,227.74	6,766.15	6,658.60	107.54	62.916		
15,400.00	7,730.00	7,911.88	7,751.17	114.68	34.65	91.06	1,647.16	1,227.75	6,853.67	6,746.05	107.62	63.683		
15,500.00	7,730.00	7,912.85	7,752.15	115.82	34.65	91.08	1,647.15	1,227.75	6,941.53	6,833.84	107.70	64.455		
15,600.00	7,730.00	7,913.83	7,753.13	116.99	34.66	91.10	1,647.14	1,227.75	7,029.72	6,921.95	107.77	65.230		
15,700.00	7,730.00	7,914.82	7,754.11	118.19	34.66	91.12	1,647.13	1,227.75	7,118.21	7,010.38	107.84	66.009		
15,800.00	7,730.00	7,915.80	7,755.10	119.41	34.66	91.13	1,647.13	1,227.76	7,207.01	7,099.11	107.90	66.792		
15,900.00	7,730.00	7,916.80	7,756.09	120.65	34.66	91.15	1,647.12	1,227.76	7,296.10	7,188.14	107.97	67.578		
16,000.00	7,730.00	7,917.80	7,757.09	121.91	34.67	91.17	1,647.11	1,227.76	7,385.47	7,277.44	108.03	68.367		
16,100.00	7,730.00	7,918.80	7,758.10	123.20	34.67	91.18	1,647.10	1,227.76	7,475.11	7,367.02	108.09	69.159		
16,200.00	7,730.00	7,919.81	7,759.10	124.50	34.67	91.20	1,647.09	1,227.77	7,565.00	7,456.86	108.14	69.954		
16,300.00	7,730.00	7,920.82	7,760.12	125.82	34.67	91.22	1,647.08	1,227.77	7,655.15	7,546.95	108.20	70.752		
16,400.00	7,730.00	7,921.84	7,761.13	127.16	34.68	91.24	1,647.07	1,227.77	7,745.54	7,637.29	108.25	71.553		
16,500.00	7,730.00	7,922.86	7,762.16	128.52	34.68	91.26	1,647.06	1,227.77	7,836.16	7,727.86	108.30	72.356		
16,600.00	7,730.00	7,923.89	7,763.18	129.89	34.68	91.27	1,647.05	1,227.78	7,927.01	7,818.66	108.35	73.162		
16,700.00	7,730.00	7,924.92	7,764.22	131.27	34.68	91.29	1,647.04	1,227.78	8,018.07	7,909.68	108.40	73.970		
16,800.00	7,730.00	7,925.96	7,765.25	132.67	34.69	91.31	1,647.03	1,227.78	8,109.35	8,000.91	108.44	74.780		
16,900.00	7,730.00	7,927.00	7,766.30	134.09	34.69	91.33	1,647.02	1,227.78	8,200.83	8,092.34	108.49	75.593		
17,000.00	7,730.00	7,928.05	7,767.35	135.51	34.69	91.35	1,647.02	1,227.79	8,292.50	8,183.97	108.53	76.407		
17,100.00	7,730.00	7,929.10	7,768.40	136.95	34.70	91.36	1,647.01	1,227.79	8,384.37	8,275.80	108.57	77.224		
17,200.00	7,730.00	7,930.16	7,769.46	138.40	34.70	91.38	1,647.00	1,227.79	8,476.42	8,367.81	108.61	78.042		
17,300.00	7,730.00	7,931.22	7,770.52	139.85	34.70	91.40	1,646.99	1,227.79	8,568.65	8,459.99	108.65	78.862		
17,400.00	7,730.00	7,932.29	7,771.59	141.32	34.70	91.42	1,646.98	1,227.80	8,661.05	8,552.36	108.69	79.684		
17,500.00	7,730.00	7,933.37	7,772.66	142.80	34.71	91.44	1,646.97	1,227.80	8,753.62	8,644.89	108.73	80.507		
17,600.00	7,730.00	7,934.44	7,773.74	144.28	34.71	91.46	1,646.96	1,227.80	8,846.35	8,737.58	108.77	81.332		
17,700.00	7,730.00	7,935.53	7,774.82	145.78	34.71	91.48	1,646.95	1,227.80	8,939.23	8,830.43	108.80	82.158		
17,800.00	7,730.00	7,936.62	7,775.91	147.28	34.71	91.49	1,646.94	1,227.81	9,032.27	8,923.43	108.84	82.986		
17,900.00	7,730.00	7,937.71	7,777.01	148.79	34.72	91.51	1,646.93	1,227.81	9,125.45	9,016.58	108.88	83.815		
18,000.00	7,730.00	7,938.81	7,778.11	150.31	34.72	91.53	1,646.92	1,227.81	9,218.78	9,109.87	108.91	84.645		
18,100.00	7,730.00	7,939.92	7,779.22	151.83	34.72	91.55	1,646.91	1,227.81	9,312.25	9,203.30	108.94	85.477		
18,200.00	7,730.00	7,941.03	7,780.33	153.37	34.73	91.57	1,646.90	1,227.82	9,405.85	9,296.87	108.98	86.309		
18,300.00	7,730.00	7,942.15	7,781.44	154.90	34.73	91.59	1,646.88	1,227.82	9,499.58	9,390.57	109.01	87.143		
18,400.00	7,730.00	7,943.27	7,782.57	156.45	34.73	91.61	1,646.87	1,227.82	9,593.43	9,484.39	109.04	87.978		
18,500.00	7,730.00	7,944.40	7,783.70	158.00	34.73	91.63	1,646.86	1,227.82	9,687.41	9,578.34	109.08	88.813		
18,600.00	7,730.00	7,945.54	7,784.83	159.55	34.74	91.65	1,646.85	1,227.83	9,781.51	9,672.40	109.11	89.649		
18,700.00	7,730.00	7,946.68	7,785.97	161.11	34.74	91.67	1,646.84	1,227.83	9,875.73	9,766.59	109.14	90.487		
18,800.00	7,730.00	7,947.82	7,787.12	162.68	34.74	91.69	1,646.83	1,227.83	9,970.05	9,860.88	109.17	91.325		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.30	-2,061.78	2,112.52	2,952.16					
100.00	100.00	75.58	75.58	0.13	0.12	134.30	-2,061.69	2,112.33	2,951.73	2,951.48	0.26	N/A		
200.00	200.00	196.70	196.69	0.49	0.47	134.30	-2,060.86	2,111.60	2,950.82	2,949.86	0.96	3,071.447		
300.00	300.00	873.91	866.46	0.85	3.22	133.24	-1,974.20	2,099.44	2,944.98	2,940.99	3.99	738.330		
400.00	400.00	1,204.36	1,180.69	1.21	5.11	132.00	-1,874.10	2,081.69	2,918.77	2,912.91	5.86	497.914		
500.00	500.00	1,358.50	1,324.23	1.57	6.12	131.27	-1,818.78	2,072.24	2,889.46	2,882.49	6.97	414.681		
600.00	599.98	1,504.63	1,459.32	1.92	7.13	65.83	-1,763.87	2,062.88	2,858.59	2,850.52	8.07	354.212		
700.00	699.84	1,624.77	1,569.37	2.28	8.00	65.96	-1,716.42	2,054.42	2,824.53	2,815.46	9.07	311.455		
800.00	799.45	1,719.34	1,655.71	2.64	8.70	66.27	-1,678.36	2,048.05	2,788.99	2,779.05	9.95	280.337		
900.00	898.70	1,806.62	1,735.40	3.02	9.34	66.71	-1,643.33	2,041.80	2,752.02	2,741.22	10.80	254.761		
1,000.00	997.47	1,873.00	1,796.24	3.41	9.83	67.29	-1,617.15	2,037.36	2,714.58	2,703.03	11.56	234.865		
1,100.00	1,095.62	1,980.11	1,894.49	3.84	10.62	67.86	-1,575.08	2,030.28	2,676.14	2,663.59	12.55	213.235		
1,200.00	1,193.06	2,040.60	1,950.18	4.29	11.06	68.61	-1,551.83	2,026.10	2,636.79	2,623.48	13.31	198.081		
1,300.00	1,289.64	2,137.17	2,039.43	4.78	11.76	69.45	-1,515.59	2,019.22	2,596.79	2,582.51	14.28	181.840		
1,400.00	1,385.27	2,253.37	2,146.40	5.32	12.61	70.42	-1,471.00	2,010.74	2,554.98	2,539.60	15.38	166.130		
1,500.00	1,479.82	2,363.83	2,247.67	5.90	13.43	71.54	-1,427.76	2,002.16	2,511.29	2,494.81	16.48	152.360		
1,600.00	1,573.17	2,432.78	2,311.01	6.53	13.94	72.70	-1,401.05	1,996.69	2,466.76	2,449.34	17.42	141.633		
1,700.00	1,665.21	2,498.29	2,371.40	7.23	14.42	73.93	-1,376.22	1,991.54	2,421.99	2,403.62	18.37	131.832		
1,800.00	1,755.84	2,605.61	2,470.48	7.98	15.21	75.49	-1,335.76	1,983.52	2,376.93	2,357.37	19.56	121.512		
1,900.00	1,844.94	2,686.72	2,544.66	8.80	15.82	76.99	-1,303.39	1,978.29	2,330.41	2,309.71	20.70	112.601		
2,000.00	1,932.39	2,769.64	2,620.66	9.68	16.44	78.63	-1,270.64	1,973.15	2,283.79	2,261.91	21.89	104.348		
2,100.00	2,018.11	2,872.84	2,715.51	10.63	17.20	80.64	-1,230.73	1,965.28	2,236.53	2,213.34	23.19	96.448		
2,200.00	2,101.97	2,981.24	2,814.98	11.65	18.02	82.93	-1,188.82	1,955.31	2,188.22	2,163.68	24.54	89.170		
2,300.00	2,183.88	3,071.47	2,897.19	12.74	18.71	85.15	-1,152.46	1,947.46	2,139.32	2,113.43	25.89	82.644		
2,400.00	2,263.74	3,193.41	3,007.68	13.90	19.67	87.99	-1,102.06	1,936.50	2,090.08	2,062.72	27.36	76.382		
2,431.61	2,288.54	3,210.37	3,022.98	14.29	19.81	88.61	-1,094.91	1,934.88	2,074.36	2,046.58	27.78	74.663		
2,500.00	2,341.97	3,247.65	3,056.69	15.13	20.10	89.19	-1,079.38	1,931.39	2,040.91	2,012.20	28.71	71.092		
2,600.00	2,420.08	3,306.20	3,109.85	16.37	20.56	90.12	-1,055.45	1,926.12	1,993.43	1,963.34	30.09	66.239		
2,700.00	2,498.20	3,374.60	3,172.08	17.63	21.09	91.24	-1,027.62	1,920.37	1,947.38	1,915.86	31.52	61.783		
2,800.00	2,576.32	3,436.88	3,228.82	18.89	21.57	92.29	-1,002.41	1,915.53	1,902.81	1,869.85	32.96	57.740		
2,900.00	2,654.43	3,505.25	3,291.30	20.17	22.09	93.47	-975.10	1,910.54	1,859.92	1,825.51	34.41	54.052		
3,000.00	2,732.55	3,593.11	3,371.73	21.45	22.77	95.06	-940.45	1,903.52	1,818.27	1,782.39	35.88	50.678		
3,100.00	2,810.67	3,692.58	3,462.02	22.74	23.54	96.89	-899.44	1,895.86	1,776.65	1,739.30	37.34	47.576		
3,200.00	2,888.78	3,753.60	3,517.41	24.03	24.02	98.04	-874.21	1,891.53	1,736.61	1,697.79	38.82	44.739		
3,300.00	2,966.90	3,820.33	3,578.24	25.33	24.53	99.35	-847.16	1,886.85	1,698.59	1,658.31	40.29	42.163		
3,400.00	3,045.02	3,884.97	3,637.38	26.63	25.02	100.66	-821.52	1,882.08	1,662.62	1,620.86	41.76	39.818		
3,500.00	3,123.13	3,948.00	3,695.32	27.94	25.50	101.98	-797.14	1,877.37	1,629.00	1,585.77	43.22	37.687		
3,600.00	3,201.25	4,037.21	3,777.29	29.24	26.16	103.88	-762.50	1,871.20	1,597.24	1,552.59	44.64	35.778		
3,700.00	3,279.37	4,115.48	3,849.04	30.55	26.75	105.58	-731.62	1,866.17	1,566.99	1,520.92	46.07	34.012		
3,800.00	3,357.49	4,194.49	3,921.49	31.86	27.35	107.35	-700.58	1,860.75	1,538.68	1,491.20	47.48	32.406		
3,900.00	3,435.60	4,261.76	3,983.23	33.18	27.85	108.90	-674.32	1,855.84	1,512.54	1,463.63	48.91	30.924		
4,000.00	3,513.72	4,319.12	4,036.15	34.49	28.27	110.25	-652.57	1,851.78	1,489.55	1,439.19	50.36	29.576		
4,100.00	3,591.84	4,394.50	4,105.94	35.81	28.82	112.04	-624.54	1,846.68	1,469.54	1,417.80	51.74	28.402		
4,200.00	3,669.95	4,472.84	4,178.48	37.12	29.39	113.94	-595.42	1,841.41	1,451.94	1,398.85	53.09	27.349		
4,300.00	3,748.07	4,552.76	4,252.46	38.44	29.97	115.92	-565.78	1,835.48	1,436.82	1,382.41	54.41	26.408		
4,400.00	3,826.19	4,636.82	4,330.19	39.76	30.58	118.02	-534.35	1,829.48	1,424.09	1,368.40	55.69	25.571		
4,500.00	3,904.30	4,720.99	4,407.84	41.08	31.20	120.15	-502.45	1,823.45	1,413.60	1,356.65	56.95	24.823		
4,600.00	3,982.42	4,797.56	4,478.50	42.40	31.76	122.08	-473.33	1,818.60	1,405.74	1,347.53	58.21	24.149		
4,700.00	4,060.54	4,855.51	4,532.14	43.72	32.18	123.54	-451.70	1,815.03	1,401.20	1,341.67	59.53	23.537		
4,764.89	4,111.23	4,892.00	4,566.06	44.58	32.44	124.47	-438.49	1,812.49	1,400.34	1,339.97	60.37	23.197 CC		
4,800.00	4,138.66	4,909.09	4,582.00	45.05	32.55	124.91	-432.44	1,811.24	1,400.61	1,339.79	60.82	23.029 ES		
4,900.00	4,216.77	4,956.37	4,626.33	46.37	32.87	126.12	-416.38	1,807.82	1,404.42	1,342.35	62.07	22.628		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	5,008.18	4,675.29	47.69	33.21	127.43	-399.86	1,804.13	1,412.64	1,349.42	63.22	22.344		
5,100.00	4,373.01	5,068.72	4,732.82	49.02	33.59	128.94	-381.43	1,800.21	1,424.68	1,360.39	64.29	22.160		
5,200.00	4,451.12	5,126.73	4,788.24	50.34	33.94	130.35	-364.60	1,796.86	1,440.31	1,375.01	65.29	22.059		
5,300.00	4,529.24	5,184.63	4,843.83	51.67	34.28	131.73	-348.71	1,793.77	1,459.51	1,393.28	66.23	22.038 SF		
5,400.00	4,607.36	5,244.60	4,901.67	52.99	34.61	133.13	-333.15	1,790.82	1,482.06	1,414.97	67.08	22.093		
5,500.00	4,685.47	5,301.54	4,956.83	54.32	34.91	134.41	-319.24	1,788.28	1,507.79	1,439.92	67.87	22.216		
5,600.00	4,763.59	5,364.00	5,017.68	55.64	35.23	135.76	-305.33	1,786.11	1,536.76	1,468.15	68.60	22.400		
5,700.00	4,841.71	5,408.47	5,061.22	56.97	35.43	136.68	-296.38	1,784.93	1,568.77	1,499.55	69.23	22.661		
5,800.00	4,919.83	5,459.00	5,110.91	58.30	35.66	137.68	-287.26	1,783.89	1,603.84	1,534.04	69.80	22.977		
5,900.00	4,997.94	5,508.91	5,160.18	59.62	35.86	138.63	-279.36	1,783.03	1,641.80	1,571.49	70.31	23.352		
6,000.00	5,076.06	5,558.60	5,209.40	60.95	36.05	139.53	-272.58	1,782.22	1,682.51	1,611.75	70.76	23.778		
6,100.00	5,154.18	5,617.85	5,268.23	62.28	36.25	140.56	-265.54	1,781.34	1,725.52	1,654.30	71.22	24.229		
6,200.00	5,232.29	5,674.72	5,324.78	63.61	36.44	141.51	-259.64	1,780.61	1,770.49	1,698.86	71.63	24.717		
6,300.00	5,310.41	5,729.01	5,378.85	64.93	36.61	142.37	-254.85	1,779.84	1,817.45	1,745.45	72.00	25.243		
6,400.00	5,388.53	5,777.26	5,426.97	66.26	36.74	143.11	-251.40	1,779.11	1,866.38	1,794.09	72.29	25.817		
6,500.00	5,466.64	5,836.00	5,485.64	67.59	36.89	143.95	-248.62	1,778.25	1,917.44	1,844.80	72.65	26.393		
6,600.00	5,544.76	5,879.73	5,529.34	68.92	36.99	144.54	-247.30	1,777.60	1,970.15	1,897.29	72.86	27.039		
6,700.00	5,622.88	5,941.29	5,590.88	70.25	37.12	145.34	-245.98	1,776.63	2,024.18	1,950.97	73.21	27.650		
6,800.00	5,701.00	6,010.51	5,660.09	71.58	37.26	146.19	-245.19	1,775.78	2,079.15	2,005.54	73.61	28.246		
6,900.00	5,779.11	6,086.59	5,736.16	72.91	37.41	147.07	-244.80	1,775.14	2,134.78	2,060.70	74.07	28.820		
7,000.00	5,857.23	6,172.01	5,821.58	74.23	37.58	148.01	-244.20	1,774.34	2,190.72	2,116.11	74.61	29.361		
7,100.00	5,935.35	6,260.30	5,909.86	75.56	37.76	148.94	-243.24	1,773.80	2,246.63	2,171.45	75.18	29.883		
7,200.00	6,013.46	6,341.86	5,991.42	76.89	37.93	149.76	-242.08	1,773.41	2,302.62	2,226.93	75.70	30.420		
7,300.00	6,091.58	6,419.97	6,069.52	78.22	38.10	150.51	-241.09	1,773.14	2,358.95	2,282.76	76.18	30.964		
7,400.00	6,169.70	6,508.00	6,157.54	79.55	38.29	151.31	-239.83	1,772.99	2,415.38	2,338.62	76.76	31.468		
7,500.00	6,247.81	6,574.68	6,224.21	80.88	38.44	151.90	-238.88	1,772.79	2,472.15	2,395.00	77.15	32.042		
7,600.00	6,325.93	6,654.04	6,303.57	82.21	38.61	152.56	-237.91	1,772.47	2,529.35	2,451.69	77.66	32.570		
7,700.00	6,404.05	6,735.00	6,384.52	83.54	38.78	153.21	-237.02	1,772.43	2,586.67	2,508.49	78.18	33.085		
7,800.00	6,482.17	6,814.29	6,463.80	84.87	38.96	153.82	-236.08	1,772.37	2,644.17	2,565.47	78.70	33.600		
7,900.00	6,560.28	6,893.26	6,542.77	86.20	39.13	154.40	-235.11	1,772.33	2,701.84	2,622.63	79.21	34.110		
8,000.00	6,638.40	6,971.55	6,621.06	87.53	39.31	154.96	-234.16	1,772.28	2,759.71	2,679.98	79.72	34.617		
8,100.00	6,716.52	7,046.36	6,695.86	88.86	39.47	155.46	-233.43	1,772.35	2,817.80	2,737.59	80.21	35.131		
8,200.00	6,794.63	7,141.00	6,790.49	90.20	39.68	156.07	-232.68	1,772.81	2,875.95	2,795.09	80.87	35.565		
8,300.00	6,872.75	7,230.81	6,880.30	91.53	39.88	156.61	-231.78	1,773.77	2,933.79	2,852.31	81.48	36.004		
8,400.00	6,950.87	7,328.28	6,977.74	92.86	40.09	157.16	-230.95	1,775.52	2,991.44	2,909.27	82.17	36.405		
8,500.00	7,028.98	7,415.28	7,064.72	94.19	40.28	157.62	-230.29	1,777.77	3,048.80	2,966.02	82.78	36.832		
8,600.00	7,107.10	7,486.36	7,135.76	95.52	40.43	157.98	-229.95	1,779.79	3,106.27	3,023.02	83.26	37.310		
8,647.91	7,144.53	7,517.47	7,166.87	96.16	40.50	158.13	-229.91	1,780.64	3,133.96	3,050.50	83.46	37.549		
8,650.00	7,146.16	7,518.83	7,168.22	96.18	40.50	157.78	-229.91	1,780.67	3,135.17	3,051.70	83.47	37.560		
8,700.00	7,185.66	7,551.64	7,201.02	96.84	40.57	149.35	-229.95	1,781.53	3,162.88	3,079.20	83.68	37.795		
8,750.00	7,225.78	7,584.98	7,234.34	97.47	40.64	140.89	-230.08	1,782.39	3,188.16	3,104.26	83.89	38.003		
8,800.00	7,266.21	7,618.54	7,267.89	98.08	40.70	132.55	-230.31	1,783.23	3,210.86	3,126.76	84.10	38.181		
8,850.00	7,306.63	7,649.65	7,299.00	98.64	40.77	124.50	-230.62	1,783.98	3,230.87	3,146.60	84.27	38.341		
8,900.00	7,346.75	7,679.12	7,328.46	99.17	40.82	116.96	-231.03	1,784.67	3,248.13	3,163.71	84.41	38.479		
8,950.00	7,386.25	7,708.20	7,357.53	99.64	40.88	110.10	-231.57	1,785.32	3,262.57	3,178.02	84.54	38.592		
9,000.00	7,424.84	7,743.57	7,392.88	100.06	40.95	104.11	-232.36	1,786.10	3,274.11	3,189.40	84.71	38.652		
9,050.00	7,462.22	7,787.64	7,436.92	100.42	41.03	99.07	-233.40	1,787.15	3,282.59	3,197.65	84.93	38.649		
9,100.00	7,498.11	7,830.25	7,479.51	100.74	41.12	94.87	-234.44	1,788.29	3,287.97	3,202.84	85.13	38.622		
9,150.00	7,532.24	7,846.33	7,495.57	100.99	41.15	91.16	-234.87	1,788.67	3,290.46	3,205.38	85.08	38.675		
9,200.00	7,564.34	7,866.20	7,515.43	101.19	41.18	88.23	-235.45	1,789.10	3,290.11	3,205.07	85.04	38.688		
9,250.00	7,594.17	7,884.76	7,533.98	101.34	41.22	85.96	-236.03	1,789.44	3,286.99	3,202.01	84.98	38.680		
9,300.00	7,621.50	7,914.00	7,563.20	101.45	41.27	84.47	-237.04	1,789.86	3,281.18	3,196.18	85.00	38.602		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,914.00	7,563.20	101.50	41.27	83.13	-237.04	1,789.86	3,272.65	3,187.90	84.74	38.619		
9,400.00	7,667.87	7,932.39	7,581.57	101.51	41.31	82.60	-237.73	1,790.05	3,261.56	3,176.91	84.65	38.531		
9,450.00	7,686.55	7,945.20	7,594.37	101.48	41.33	82.51	-238.22	1,790.15	3,248.00	3,163.50	84.50	38.439		
9,500.00	7,702.04	7,956.06	7,605.22	101.42	41.35	82.87	-238.64	1,790.21	3,232.06	3,147.73	84.33	38.324		
9,550.00	7,714.20	7,964.89	7,614.05	101.33	41.37	83.67	-238.99	1,790.24	3,213.88	3,129.72	84.16	38.187		
9,600.00	7,722.96	7,971.63	7,620.78	101.20	41.38	84.91	-239.27	1,790.26	3,193.56	3,109.58	83.98	38.027		
9,650.00	7,728.24	7,976.22	7,625.37	101.06	41.39	86.58	-239.45	1,790.27	3,171.26	3,087.46	83.80	37.843		
9,699.97	7,730.00	7,978.63	7,627.77	100.90	41.39	88.69	-239.55	1,790.27	3,147.13	3,063.51	83.63	37.633		
9,800.00	7,730.00	7,981.24	7,630.38	100.56	41.40	88.75	-239.66	1,790.27	3,098.30	3,014.99	83.31	37.190		
9,900.00	7,730.00	7,983.87	7,633.01	100.24	41.40	88.80	-239.77	1,790.27	3,051.97	2,968.93	83.04	36.753		
10,000.00	7,730.00	7,986.53	7,635.67	99.93	41.41	88.86	-239.88	1,790.27	3,008.25	2,925.42	82.83	36.318		
10,100.00	7,730.00	7,989.21	7,638.35	99.64	41.41	88.91	-239.99	1,790.27	2,967.26	2,884.57	82.69	35.884		
10,200.00	7,730.00	7,991.92	7,641.06	99.36	41.42	88.97	-240.11	1,790.27	2,929.10	2,846.47	82.63	35.449		
10,300.00	7,730.00	7,994.66	7,643.79	99.09	41.42	89.03	-240.22	1,790.26	2,893.89	2,811.24	82.65	35.012		
10,400.00	7,730.00	7,997.42	7,646.55	98.84	41.43	89.09	-240.34	1,790.26	2,861.74	2,778.97	82.77	34.573		
10,500.00	7,730.00	8,009.00	7,658.12	98.61	41.45	89.33	-240.84	1,790.22	2,832.78	2,749.68	83.10	34.088		
10,600.00	7,730.00	8,009.00	7,658.12	98.39	41.45	89.33	-240.84	1,790.22	2,807.04	2,723.65	83.39	33.662		
10,700.00	7,730.00	8,009.00	7,658.12	98.18	41.45	89.33	-240.84	1,790.22	2,784.66	2,700.88	83.78	33.239		
10,800.00	7,730.00	8,009.00	7,658.12	97.99	41.45	89.33	-240.84	1,790.22	2,765.71	2,681.45	84.27	32.820		
10,900.00	7,730.00	8,009.00	7,658.12	97.81	41.45	89.33	-240.84	1,790.22	2,750.28	2,665.42	84.86	32.410		
11,000.00	7,730.00	8,009.00	7,658.12	97.64	41.45	89.33	-240.84	1,790.22	2,738.41	2,652.87	85.54	32.013		
11,100.00	7,730.00	8,009.00	7,658.12	97.50	41.45	89.33	-240.84	1,790.22	2,730.15	2,643.85	86.30	31.634		
11,200.00	7,730.00	8,009.00	7,658.12	97.36	41.45	89.33	-240.84	1,790.22	2,725.54	2,638.40	87.14	31.277		
11,276.30	7,730.00	8,021.44	7,670.54	97.27	41.47	89.59	-241.39	1,790.14	2,724.44	2,636.48	87.97	30.971		
11,300.00	7,730.00	8,022.09	7,671.20	97.24	41.47	89.60	-241.42	1,790.14	2,724.55	2,636.36	88.19	30.896		
11,400.00	7,730.00	8,024.88	7,673.99	97.14	41.48	89.66	-241.54	1,790.12	2,727.25	2,638.09	89.16	30.590		
11,500.00	7,730.00	8,027.72	7,676.82	97.06	41.48	89.72	-241.67	1,790.09	2,733.60	2,643.44	90.16	30.320		
11,600.00	7,730.00	8,030.60	7,679.69	96.98	41.49	89.78	-241.80	1,790.07	2,743.58	2,652.40	91.18	30.089		
11,700.00	7,730.00	8,033.52	7,682.62	96.93	41.49	89.84	-241.94	1,790.04	2,757.15	2,664.94	92.21	29.899		
11,800.00	7,730.00	8,036.50	7,685.59	96.90	41.50	89.91	-242.08	1,790.01	2,774.26	2,681.01	93.24	29.753		
11,900.00	7,730.00	8,039.52	7,688.60	96.88	41.50	89.97	-242.22	1,789.97	2,794.83	2,700.57	94.26	29.651		
12,000.00	7,730.00	8,042.59	7,691.67	96.88	41.51	90.04	-242.37	1,789.94	2,818.80	2,723.55	95.25	29.593		
12,100.00	7,730.00	8,045.71	7,694.79	96.90	41.51	90.10	-242.52	1,789.90	2,846.08	2,749.87	96.21	29.580		
12,200.00	7,730.00	8,048.88	7,697.96	96.94	41.52	90.17	-242.67	1,789.86	2,876.57	2,779.43	97.14	29.612		
12,300.00	7,730.00	8,052.11	7,701.18	97.00	41.52	90.24	-242.82	1,789.81	2,910.18	2,812.15	98.03	29.686		
12,400.00	7,730.00	8,055.39	7,704.45	97.08	41.53	90.30	-242.99	1,789.76	2,946.79	2,847.91	98.88	29.802		
12,500.00	7,730.00	8,058.72	7,707.79	97.18	41.54	90.37	-243.15	1,789.71	2,986.30	2,886.62	99.68	29.959		
12,600.00	7,730.00	8,062.12	7,711.17	97.31	41.54	90.45	-243.32	1,789.66	3,028.59	2,928.15	100.44	30.155		
12,700.00	7,730.00	8,065.57	7,714.62	97.46	41.55	90.52	-243.49	1,789.60	3,073.55	2,972.40	101.14	30.388		
12,800.00	7,730.00	8,321.52	7,969.51	97.64	41.94	95.86	-264.95	1,792.35	3,120.63	3,017.64	102.99	30.300		
12,900.00	7,730.00	8,325.72	7,973.68	97.85	41.94	95.95	-265.36	1,792.54	3,169.91	3,066.36	103.55	30.612		
13,000.00	7,730.00	8,329.72	7,977.66	98.09	41.95	96.03	-265.75	1,792.73	3,221.53	3,117.46	104.07	30.957		
13,100.00	7,730.00	8,333.55	7,981.47	98.35	41.95	96.11	-266.10	1,792.90	3,275.37	3,170.83	104.54	31.330		
13,200.00	7,730.00	8,337.21	7,985.11	98.65	41.96	96.19	-266.44	1,793.06	3,331.34	3,226.36	104.98	31.733		
13,300.00	7,730.00	8,340.71	7,988.59	98.98	41.97	96.26	-266.76	1,793.22	3,389.33	3,283.94	105.39	32.161		
13,400.00	7,730.00	8,344.06	7,991.93	99.34	41.97	96.33	-267.05	1,793.36	3,449.23	3,343.47	105.76	32.615		
13,500.00	7,730.00	8,347.28	7,995.13	99.74	41.97	96.40	-267.33	1,793.50	3,510.95	3,404.85	106.09	33.093		
13,600.00	7,730.00	8,350.37	7,998.21	100.17	41.98	96.46	-267.59	1,793.63	3,574.39	3,467.99	106.40	33.593		
13,700.00	7,730.00	8,353.34	8,001.16	100.65	41.98	96.52	-267.84	1,793.75	3,639.47	3,532.79	106.69	34.113		
13,800.00	7,730.00	8,356.19	8,004.00	101.16	41.99	96.58	-268.07	1,793.87	3,706.10	3,599.16	106.95	34.654		
13,900.00	7,730.00	8,386.00	8,033.72	101.71	42.03	97.20	-270.22	1,795.02	3,774.48	3,667.24	107.25	35.194		
14,000.00	7,730.00	8,386.00	8,033.72	102.30	42.03	97.20	-270.22	1,795.02	3,843.92	3,736.46	107.45	35.773		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	8,386.00	8,033.72	102.93	42.03	97.20	-270.22	1,795.02	3,914.68	3,807.04	107.64	36.368		
14,200.00	7,730.00	8,386.00	8,033.72	103.60	42.03	97.20	-270.22	1,795.02	3,986.69	3,878.88	107.81	36.979		
14,300.00	7,730.00	8,386.00	8,033.72	104.32	42.03	97.20	-270.22	1,795.02	4,059.88	3,951.92	107.96	37.604		
14,400.00	7,730.00	8,386.00	8,033.72	105.07	42.03	97.20	-270.22	1,795.02	4,134.20	4,026.10	108.10	38.243		
14,500.00	7,730.00	8,386.00	8,033.72	105.86	42.03	97.20	-270.22	1,795.02	4,209.58	4,101.35	108.23	38.894		
14,600.00	7,730.00	8,386.00	8,033.72	106.70	42.03	97.20	-270.22	1,795.02	4,285.97	4,177.63	108.35	39.558		
14,700.00	7,730.00	8,386.00	8,033.72	107.57	42.03	97.20	-270.22	1,795.02	4,363.32	4,254.87	108.45	40.233		
14,800.00	7,730.00	8,386.00	8,033.72	108.48	42.03	97.20	-270.22	1,795.02	4,441.57	4,333.02	108.54	40.919		
14,900.00	7,730.00	8,386.00	8,033.72	109.43	42.03	97.20	-270.22	1,795.02	4,520.68	4,412.05	108.63	41.615		
15,000.00	7,730.00	8,386.00	8,033.72	110.42	42.03	97.20	-270.22	1,795.02	4,600.60	4,491.89	108.71	42.321		
15,100.00	7,730.00	8,386.00	8,033.72	111.43	42.03	97.20	-270.22	1,795.02	4,681.29	4,572.51	108.78	43.035		
15,200.00	7,730.00	8,386.00	8,033.72	112.49	42.03	97.20	-270.22	1,795.02	4,762.71	4,653.87	108.84	43.758		
15,300.00	7,730.00	8,386.00	8,033.72	113.57	42.03	97.20	-270.22	1,795.02	4,844.83	4,735.94	108.90	44.489		
15,400.00	7,730.00	8,386.00	8,033.72	114.68	42.03	97.20	-270.22	1,795.02	4,927.62	4,818.67	108.95	45.228		
15,500.00	7,730.00	8,386.00	8,033.72	115.82	42.03	97.20	-270.22	1,795.02	5,011.03	4,902.03	109.00	45.974		
15,600.00	7,730.00	8,386.00	8,033.72	116.99	42.03	97.20	-270.22	1,795.02	5,095.03	4,985.99	109.04	46.726		
15,700.00	7,730.00	8,386.00	8,033.72	118.19	42.03	97.20	-270.22	1,795.02	5,179.61	5,070.53	109.08	47.485		
15,800.00	7,730.00	8,406.19	8,053.86	119.41	42.07	97.62	-271.46	1,795.74	5,264.64	5,155.49	109.15	48.232		
15,900.00	7,730.00	8,409.04	8,056.70	120.65	42.07	97.68	-271.63	1,795.83	5,350.25	5,241.06	109.19	49.000		
16,000.00	7,730.00	8,411.83	8,059.48	121.91	42.08	97.74	-271.79	1,795.93	5,436.35	5,327.12	109.22	49.774		
16,100.00	7,730.00	8,414.56	8,062.21	123.20	42.08	97.80	-271.95	1,796.03	5,522.91	5,413.66	109.25	50.552		
16,200.00	7,730.00	8,417.25	8,064.88	124.50	42.09	97.85	-272.11	1,796.12	5,609.91	5,500.63	109.28	51.335		
16,300.00	7,730.00	8,419.88	8,067.51	125.82	42.09	97.91	-272.26	1,796.21	5,697.34	5,588.04	109.31	52.123		
16,400.00	7,730.00	8,422.46	8,070.09	127.16	42.10	97.96	-272.40	1,796.30	5,785.18	5,675.85	109.33	52.915		
16,500.00	7,730.00	8,424.99	8,072.61	128.52	42.10	98.01	-272.55	1,796.38	5,873.40	5,764.04	109.35	53.711		
16,600.00	7,730.00	8,427.48	8,075.10	129.89	42.11	98.06	-272.68	1,796.47	5,961.99	5,852.61	109.37	54.510		
16,700.00	7,730.00	8,429.92	8,077.53	131.27	42.11	98.11	-272.82	1,796.55	6,050.93	5,941.54	109.39	55.314		
16,800.00	7,730.00	8,432.32	8,079.92	132.67	42.11	98.16	-272.95	1,796.63	6,140.21	6,030.80	109.41	56.121		
16,900.00	7,730.00	8,434.67	8,082.27	134.09	42.12	98.21	-273.08	1,796.71	6,229.82	6,120.39	109.43	56.931		
17,000.00	7,730.00	8,436.98	8,084.58	135.51	42.12	98.26	-273.20	1,796.79	6,319.73	6,210.29	109.44	57.744		
17,100.00	7,730.00	8,439.25	8,086.85	136.95	42.13	98.31	-273.32	1,796.86	6,409.94	6,300.49	109.46	58.561		
17,200.00	7,730.00	8,441.49	8,089.07	138.40	42.13	98.35	-273.44	1,796.94	6,500.44	6,390.97	109.47	59.380		
17,300.00	7,730.00	8,443.68	8,091.26	139.85	42.13	98.40	-273.55	1,797.01	6,591.21	6,481.72	109.49	60.201		
17,400.00	7,730.00	8,445.83	8,093.41	141.32	42.14	98.44	-273.66	1,797.08	6,682.24	6,572.74	109.50	61.025		
17,500.00	7,730.00	8,447.95	8,095.53	142.80	42.14	98.49	-273.77	1,797.15	6,773.53	6,664.01	109.51	61.852		
17,600.00	7,730.00	8,450.03	8,097.60	144.28	42.15	98.53	-273.88	1,797.22	6,865.05	6,755.52	109.53	62.680		
17,700.00	7,730.00	8,452.08	8,099.65	145.78	42.15	98.57	-273.98	1,797.29	6,956.81	6,847.27	109.54	63.511		
17,800.00	7,730.00	8,454.09	8,101.66	147.28	42.15	98.62	-274.08	1,797.35	7,048.78	6,939.23	109.55	64.344		
17,900.00	7,730.00	8,456.07	8,103.63	148.79	42.16	98.66	-274.18	1,797.42	7,140.98	7,031.42	109.56	65.178		
18,000.00	7,730.00	8,481.00	8,128.52	150.31	42.20	99.17	-275.34	1,798.21	7,233.47	7,123.86	109.61	65.992		
18,100.00	7,730.00	8,481.00	8,128.52	151.83	42.20	99.17	-275.34	1,798.21	7,326.05	7,216.43	109.62	66.831		
18,200.00	7,730.00	8,481.00	8,128.52	153.37	42.20	99.17	-275.34	1,798.21	7,418.83	7,309.20	109.63	67.672		
18,300.00	7,730.00	8,481.00	8,128.52	154.90	42.20	99.17	-275.34	1,798.21	7,511.79	7,402.15	109.64	68.515		
18,400.00	7,730.00	8,481.00	8,128.52	156.45	42.20	99.17	-275.34	1,798.21	7,604.92	7,495.28	109.65	69.359		
18,500.00	7,730.00	8,481.00	8,128.52	158.00	42.20	99.17	-275.34	1,798.21	7,698.24	7,588.58	109.65	70.205		
18,600.00	7,730.00	8,481.00	8,128.52	159.55	42.20	99.17	-275.34	1,798.21	7,791.71	7,682.05	109.66	71.051		
18,700.00	7,730.00	8,481.00	8,128.52	161.11	42.20	99.17	-275.34	1,798.21	7,885.35	7,775.68	109.67	71.899		
18,800.00	7,730.00	8,481.00	8,128.52	162.68	42.20	99.17	-275.34	1,798.21	7,979.14	7,869.46	109.68	72.748		
18,900.00	7,730.00	8,481.00	8,128.52	164.25	42.20	99.17	-275.34	1,798.21	8,073.08	7,963.39	109.69	73.598		
19,000.00	7,730.00	8,481.00	8,128.52	165.83	42.20	99.17	-275.34	1,798.21	8,167.17	8,057.47	109.70	74.449		
19,100.00	7,730.00	8,481.00	8,128.52	167.41	42.20	99.17	-275.34	1,798.21	8,261.39	8,151.68	109.71	75.301		
19,200.00	7,730.00	8,481.00	8,128.52	168.99	42.20	99.17	-275.34	1,798.21	8,355.75	8,246.03	109.72	76.154		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		120-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,481.00	8,128.52	170.58	42.20	99.17	-275.34	1,798.21	8,450.24	8,340.50	109.73	77.007	
19,400.00	7,730.00	8,481.00	8,128.52	172.17	42.20	99.17	-275.34	1,798.21	8,544.85	8,435.10	109.74	77.861	
19,430.54	7,730.00	8,481.00	8,128.52	172.66	42.20	99.17	-275.34	1,798.21	8,573.76	8,464.02	109.75	78.122	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	69.59	772.38	2,075.87	2,215.25					
100.00	100.00	63.92	63.92	0.13	0.10	69.60	772.15	2,075.92	2,214.87	2,214.63	0.24	9,336.363		
200.00	200.00	168.55	168.54	0.49	0.36	69.63	770.98	2,076.08	2,214.63	2,213.78	0.86	2,587.889		
300.00	300.00	272.00	271.99	0.85	0.73	69.64	770.22	2,075.89	2,214.20	2,212.62	1.58	1,397.470		
400.00	400.00	361.83	361.82	1.21	1.05	69.66	769.66	2,075.74	2,213.84	2,211.58	2.26	978.387		
404.87	404.87	365.90	365.89	1.23	1.07	69.66	769.64	2,075.75	2,213.84	2,211.55	2.29	964.769		
500.00	500.00	453.50	453.48	1.57	1.38	69.67	769.13	2,076.17	2,214.07	2,211.13	2.95	751.763		
600.00	599.98	542.09	542.07	1.92	1.69	4.34	768.90	2,076.74	2,212.85	2,209.24	3.61	612.967		
700.00	699.84	635.18	635.16	2.28	2.02	4.37	768.64	2,077.94	2,208.74	2,204.45	4.29	514.723		
800.00	799.45	731.88	731.85	2.64	2.36	4.42	768.44	2,079.25	2,201.24	2,196.26	4.99	441.249		
900.00	898.70	834.25	834.20	3.02	2.72	4.47	768.60	2,080.61	2,190.38	2,184.67	5.71	383.625		
1,000.00	997.47	947.43	947.38	3.41	3.11	4.52	769.02	2,081.50	2,175.65	2,169.19	6.47	336.450		
1,100.00	1,095.62	1,049.51	1,049.45	3.84	3.46	4.56	770.26	2,081.49	2,157.03	2,149.85	7.18	300.491		
1,200.00	1,193.06	1,132.83	1,132.76	4.29	3.74	4.61	771.46	2,081.65	2,135.26	2,127.43	7.83	272.615		
1,300.00	1,289.64	1,232.61	1,232.53	4.78	4.09	4.68	772.81	2,081.96	2,110.19	2,101.64	8.55	246.806		
1,400.00	1,385.27	1,291.77	1,291.67	5.32	4.29	4.73	774.22	2,082.54	2,082.72	2,073.58	9.13	228.048		
1,500.00	1,479.82	1,350.86	1,350.70	5.90	4.50	4.78	776.73	2,083.83	2,053.59	2,043.87	9.72	211.243		
1,600.00	1,573.17	1,409.00	1,408.69	6.53	4.71	4.80	780.25	2,085.79	2,022.85	2,012.53	10.31	196.140		
1,700.00	1,665.21	1,471.94	1,471.38	7.23	4.93	4.82	785.03	2,088.70	1,990.40	1,979.47	10.93	182.105		
1,800.00	1,755.84	1,531.35	1,530.46	7.98	5.15	4.83	790.27	2,092.21	1,956.25	1,944.70	11.54	169.495		
1,900.00	1,844.94	1,598.00	1,596.57	8.80	5.39	4.83	797.01	2,097.27	1,920.60	1,908.42	12.19	157.597		
2,000.00	1,932.39	1,649.44	1,647.48	9.68	5.58	4.85	802.67	2,101.96	1,883.31	1,870.53	12.79	147.292		
2,100.00	2,018.11	1,712.44	1,709.71	10.63	5.82	4.86	809.92	2,108.58	1,844.34	1,830.90	13.44	137.267		
2,200.00	2,101.97	1,777.44	1,773.75	11.65	6.08	4.86	818.11	2,116.15	1,803.53	1,789.43	14.10	127.885		
2,300.00	2,183.88	1,836.40	1,831.66	12.74	6.31	4.87	826.14	2,123.77	1,761.00	1,746.25	14.76	119.337		
2,400.00	2,263.74	1,897.31	1,891.29	13.90	6.56	4.89	834.76	2,132.69	1,716.97	1,701.54	15.43	111.303		
2,431.61	2,288.54	1,919.61	1,913.09	14.29	6.66	4.89	837.98	2,136.14	1,702.67	1,687.02	15.65	108.767		
2,500.00	2,341.97	1,968.00	1,960.32	15.13	6.86	4.84	845.10	2,143.87	1,671.72	1,655.58	16.14	103.571		
2,600.00	2,420.08	2,023.59	2,014.46	16.37	7.10	4.79	853.19	2,153.55	1,627.69	1,610.89	16.80	96.867		
2,700.00	2,498.20	2,081.09	2,070.23	17.63	7.36	4.78	861.00	2,165.13	1,585.64	1,568.15	17.48	90.698		
2,800.00	2,576.32	2,153.08	2,139.85	18.89	7.69	4.82	869.94	2,181.10	1,545.03	1,526.80	18.23	84.767		
2,900.00	2,654.43	2,232.70	2,216.69	20.17	8.06	4.94	878.45	2,200.15	1,505.38	1,486.37	19.01	79.194		
3,000.00	2,732.55	2,306.89	2,288.13	21.45	8.42	5.12	885.10	2,219.02	1,466.56	1,446.78	19.78	74.143		
3,100.00	2,810.67	2,380.01	2,358.25	22.74	8.78	5.31	891.90	2,238.59	1,429.04	1,408.48	20.56	69.517		
3,200.00	2,888.78	2,449.00	2,424.19	24.03	9.13	5.52	898.17	2,257.89	1,392.68	1,371.35	21.33	65.301		
3,300.00	2,966.90	2,515.12	2,487.01	25.33	9.49	5.72	904.64	2,277.47	1,358.09	1,336.00	22.10	61.465		
3,400.00	3,045.02	2,594.05	2,561.43	26.63	9.93	5.95	913.40	2,302.30	1,325.54	1,302.61	22.93	57.820		
3,500.00	3,123.13	2,698.39	2,659.79	27.94	10.54	6.30	924.27	2,335.34	1,293.07	1,269.20	23.87	54.163		
3,600.00	3,201.25	2,800.07	2,755.98	29.24	11.13	6.64	934.96	2,366.52	1,259.70	1,234.88	24.82	50.758		
3,700.00	3,279.37	2,893.44	2,844.35	30.55	11.69	6.92	945.63	2,394.70	1,226.19	1,200.46	25.73	47.647		
3,800.00	3,357.49	2,986.77	2,932.65	31.86	12.25	7.22	956.40	2,422.94	1,192.82	1,166.16	26.66	44.740		
3,900.00	3,435.60	3,072.59	3,013.78	33.18	12.78	7.51	966.28	2,449.13	1,159.72	1,132.15	27.57	42.063		
4,000.00	3,513.72	3,163.77	3,099.73	34.49	13.35	7.81	977.31	2,477.51	1,127.40	1,098.89	28.51	39.543		
4,100.00	3,591.84	3,265.40	3,195.64	35.81	13.99	8.18	989.47	2,508.86	1,094.81	1,065.32	29.50	37.117		
4,200.00	3,669.95	3,368.05	3,292.79	37.12	14.64	8.63	1,000.50	2,540.10	1,061.53	1,031.03	30.50	34.805		
4,300.00	3,748.07	3,458.27	3,378.28	38.44	15.21	9.04	1,010.38	2,567.19	1,027.96	996.48	31.47	32.660		
4,400.00	3,826.19	3,549.95	3,464.97	39.76	15.79	9.44	1,021.19	2,594.97	994.93	962.46	32.47	30.646		
4,500.00	3,904.30	3,654.53	3,563.99	41.08	16.46	9.93	1,033.55	2,626.30	961.64	928.14	33.50	28.704		
4,600.00	3,982.42	3,748.04	3,652.77	42.40	17.05	10.41	1,044.12	2,653.65	927.59	893.06	34.53	26.863		
4,700.00	4,060.54	3,844.30	3,744.15	43.72	17.65	10.97	1,054.72	2,682.01	893.73	858.14	35.59	25.112		
4,800.00	4,138.66	3,937.81	3,832.98	45.05	18.25	11.53	1,065.36	2,709.21	859.68	823.02	36.66	23.450		
4,900.00	4,216.77	4,025.45	3,916.16	46.37	18.81	12.14	1,074.78	2,735.15	826.06	788.29	37.76	21.875		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,124.25	4,009.78	47.69	19.44	12.81	1,086.36	2,764.52	792.87	753.97	38.90	20.381		
5,100.00	4,373.01	4,227.74	4,108.16	49.02	20.10	13.49	1,099.39	2,793.88	758.66	718.61	40.05	18.942		
5,200.00	4,451.12	4,317.89	4,194.05	50.34	20.66	14.23	1,109.72	2,819.22	724.05	682.79	41.25	17.551		
5,300.00	4,529.24	4,409.46	4,281.22	51.67	21.24	15.13	1,119.31	2,845.60	690.06	647.52	42.54	16.221		
5,400.00	4,607.36	4,507.48	4,374.52	52.99	21.86	16.12	1,130.27	2,873.55	656.09	612.21	43.88	14.953		
5,500.00	4,685.47	4,593.73	4,456.60	54.32	22.41	17.03	1,140.55	2,898.00	622.24	576.96	45.28	13.743		
5,600.00	4,763.59	4,692.73	4,550.47	55.64	23.05	18.04	1,153.84	2,926.46	589.21	542.51	46.70	12.618		
5,700.00	4,841.71	4,795.13	4,648.19	56.97	23.69	19.38	1,166.00	2,954.54	554.82	506.56	48.26	11.498		
5,800.00	4,919.83	4,890.13	4,739.28	58.30	24.27	20.99	1,175.45	2,979.83	519.73	469.68	50.06	10.383		
5,900.00	4,997.94	4,995.07	4,840.37	59.62	24.88	23.27	1,184.13	3,006.60	483.91	431.79	52.12	9.284		
6,000.00	5,076.06	5,090.59	4,932.84	60.95	25.41	25.69	1,192.01	3,029.20	446.93	392.42	54.50	8.200		
6,100.00	5,154.18	5,198.59	5,038.06	62.28	25.98	29.08	1,200.19	3,052.09	408.43	351.22	57.22	7.139		
6,200.00	5,232.29	5,300.29	5,138.10	63.61	26.45	33.44	1,205.73	3,069.50	367.47	306.75	60.72	6.052		
6,300.00	5,310.41	5,393.37	5,230.06	64.93	26.85	38.67	1,209.85	3,083.30	326.50	261.21	65.29	5.001		
6,400.00	5,388.53	5,490.67	5,326.64	66.26	27.23	45.91	1,213.70	3,094.38	285.51	214.41	71.09	4.016		
6,500.00	5,466.64	5,579.74	5,415.40	67.59	27.53	55.01	1,215.89	3,101.38	246.79	167.97	78.82	3.131		
6,600.00	5,544.76	5,666.53	5,502.09	68.92	27.80	66.88	1,216.82	3,105.19	214.14	126.02	88.12	2.430		
6,700.00	5,622.88	5,748.18	5,583.73	70.25	28.01	80.70	1,217.32	3,106.70	193.36	96.86	96.50	2.004		
6,765.72	5,674.22	5,800.43	5,635.97	71.12	28.15	90.37	1,217.67	3,107.11	189.13	89.87	99.26	1.905 CC, ES, SF		
6,800.00	5,701.00	5,827.61	5,663.15	71.58	28.22	95.43	1,217.89	3,107.28	190.29	90.87	99.42	1.914		
6,900.00	5,779.11	5,906.27	5,741.81	72.91	28.43	109.42	1,218.57	3,107.83	206.37	110.90	95.47	2.162		
7,000.00	5,857.23	5,985.68	5,821.21	74.23	28.64	121.45	1,219.26	3,108.71	237.77	149.44	88.34	2.692		
7,100.00	5,935.35	6,065.16	5,900.68	75.56	28.86	131.09	1,220.20	3,109.64	279.06	197.63	81.43	3.427		
7,200.00	6,013.46	6,143.42	5,978.93	76.89	29.07	138.52	1,221.12	3,110.35	326.76	250.87	75.89	4.306		
7,300.00	6,091.58	6,221.59	6,057.10	78.22	29.28	144.32	1,222.01	3,110.83	378.60	306.80	71.80	5.273		
7,400.00	6,169.70	6,298.88	6,134.38	79.55	29.48	148.85	1,222.81	3,111.09	433.21	364.36	68.85	6.292		
7,500.00	6,247.81	6,375.12	6,210.62	80.88	29.68	152.40	1,223.33	3,111.22	489.83	423.07	66.76	7.337		
7,600.00	6,325.93	6,453.30	6,288.80	82.21	29.89	155.31	1,223.44	3,111.37	547.94	482.52	65.42	8.376		
7,700.00	6,404.05	6,534.47	6,369.97	83.54	30.11	157.79	1,223.81	3,111.67	606.59	541.96	64.63	9.386		
7,800.00	6,482.17	6,615.19	6,450.68	84.87	30.33	159.79	1,224.11	3,112.52	665.49	601.31	64.19	10.368		
7,900.00	6,560.28	6,699.95	6,525.44	86.20	30.54	161.35	1,224.31	3,113.18	724.99	661.18	63.81	11.362		
8,000.00	6,638.40	6,772.40	6,607.88	87.53	30.76	162.85	1,224.70	3,113.69	784.89	721.06	63.83	12.297		
8,100.00	6,716.52	6,854.38	6,689.86	88.86	31.00	164.14	1,225.52	3,114.40	844.66	780.70	63.96	13.206		
8,200.00	6,794.63	6,931.93	6,767.39	90.20	31.21	165.23	1,226.63	3,114.99	904.53	840.46	64.07	14.118		
8,300.00	6,872.75	7,005.90	6,841.36	91.53	31.42	166.15	1,227.51	3,115.33	964.91	900.73	64.18	15.034		
8,400.00	6,950.87	7,079.01	6,914.47	92.86	31.62	166.96	1,228.19	3,115.28	1,025.89	961.54	64.35	15.943		
8,500.00	7,028.98	7,162.14	6,997.59	94.19	31.85	167.81	1,229.25	3,115.03	1,087.01	1,022.20	64.81	16.772		
8,600.00	7,107.10	7,239.75	7,075.19	95.52	32.06	168.53	1,230.53	3,114.80	1,148.08	1,082.90	65.18	17.613		
8,647.91	7,144.53	7,277.17	7,112.61	96.16	32.17	168.85	1,231.11	3,114.68	1,177.41	1,112.02	65.39	18.007		
8,650.00	7,146.16	7,278.83	7,114.27	96.18	32.17	168.48	1,231.13	3,114.68	1,178.69	1,113.29	65.40	18.024		
8,700.00	7,185.66	7,318.94	7,154.37	96.84	32.28	159.63	1,231.70	3,114.61	1,208.31	1,142.72	65.59	18.422		
8,750.00	7,225.78	7,359.67	7,195.10	97.47	32.40	150.89	1,232.22	3,114.59	1,235.99	1,170.27	65.72	18.807		
8,800.00	7,266.21	7,399.90	7,235.33	98.08	32.51	142.36	1,232.67	3,114.62	1,261.64	1,195.86	65.78	19.179		
8,850.00	7,306.63	7,440.24	7,275.67	98.64	32.63	134.23	1,233.05	3,114.68	1,285.17	1,219.37	65.81	19.529		
8,900.00	7,346.75	7,477.76	7,313.18	99.17	32.73	126.63	1,233.32	3,114.76	1,306.58	1,240.84	65.74	19.874		
8,950.00	7,386.25	7,514.14	7,349.57	99.64	32.83	119.74	1,233.41	3,114.83	1,325.91	1,260.26	65.65	20.198		
9,000.00	7,424.84	7,549.91	7,385.34	100.06	32.93	113.66	1,233.35	3,114.89	1,343.17	1,277.62	65.55	20.491		
9,050.00	7,462.22	7,585.18	7,420.60	100.42	33.02	108.45	1,233.21	3,114.92	1,358.37	1,292.89	65.47	20.747		
9,100.00	7,498.11	7,619.05	7,454.47	100.74	33.11	104.05	1,233.02	3,114.91	1,371.56	1,306.14	65.42	20.966		
9,150.00	7,532.24	7,652.30	7,487.72	100.99	33.20	100.43	1,232.80	3,114.87	1,382.82	1,317.39	65.43	21.134		
9,200.00	7,564.34	7,684.87	7,520.29	101.19	33.28	97.53	1,232.54	3,114.84	1,392.19	1,326.66	65.53	21.244		
9,250.00	7,594.17	7,715.30	7,550.72	101.34	33.36	95.23	1,232.26	3,114.84	1,399.79	1,334.07	65.72	21.300		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 122-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,744.48	7,579.89	101.45	33.44	93.48	1,231.96	3,114.87	1,405.72	1,339.69	66.03	21.290		
9,350.00	7,646.13	7,772.43	7,607.84	101.50	33.51	92.21	1,231.67	3,114.94	1,410.08	1,343.59	66.49	21.208		
9,400.00	7,667.87	7,797.23	7,632.64	101.51	33.58	91.31	1,231.42	3,115.06	1,413.00	1,345.93	67.07	21.067		
9,450.00	7,686.55	7,818.66	7,654.07	101.48	33.64	90.71	1,231.22	3,115.19	1,414.63	1,346.84	67.79	20.867		
9,500.00	7,702.04	7,836.54	7,671.95	101.42	33.68	90.35	1,231.04	3,115.33	1,415.10	1,346.44	68.66	20.611		
9,550.00	7,714.20	7,848.36	7,683.77	101.33	33.72	90.10	1,230.96	3,115.41	1,414.54	1,344.91	69.62	20.317		
9,600.00	7,722.96	7,857.61	7,693.02	101.20	33.74	90.06	1,230.89	3,115.48	1,413.04	1,342.28	70.76	19.970		
9,650.00	7,728.24	7,863.26	7,698.67	101.06	33.76	90.16	1,230.86	3,115.52	1,410.69	1,338.65	72.03	19.583		
9,699.97	7,730.00	7,865.32	7,700.73	100.90	33.77	90.40	1,230.85	3,115.54	1,407.54	1,334.09	73.44	19.165		
9,799.59	7,730.00	7,865.88	7,701.29	100.56	33.77	90.42	1,230.84	3,115.54	1,404.01	1,327.41	76.60	18.330		
9,800.00	7,730.00	7,865.88	7,701.29	100.56	33.77	90.42	1,230.84	3,115.54	1,404.01	1,327.40	76.61	18.327		
9,900.00	7,730.00	7,866.42	7,701.83	100.24	33.77	90.44	1,230.84	3,115.55	1,407.59	1,327.48	80.11	17.570		
10,000.00	7,730.00	7,866.96	7,702.36	99.93	33.77	90.46	1,230.84	3,115.55	1,418.24	1,334.44	83.79	16.925		
10,100.00	7,730.00	7,867.48	7,702.89	99.64	33.77	90.49	1,230.84	3,115.55	1,435.79	1,348.27	87.52	16.406		
10,200.00	7,730.00	7,867.99	7,703.40	99.36	33.77	90.51	1,230.83	3,115.56	1,459.99	1,368.82	91.16	16.015		
10,300.00	7,730.00	7,868.50	7,703.90	99.09	33.78	90.53	1,230.83	3,115.56	1,490.52	1,395.87	94.64	15.749		
10,400.00	7,730.00	7,868.99	7,704.40	98.84	33.78	90.55	1,230.83	3,115.56	1,527.00	1,429.10	97.89	15.598		
10,500.00	7,730.00	7,869.47	7,704.88	98.61	33.78	90.57	1,230.83	3,115.57	1,569.01	1,468.13	100.88	15.553		
10,600.00	7,730.00	7,869.95	7,705.36	98.39	33.78	90.59	1,230.82	3,115.57	1,616.13	1,512.55	103.58	15.602		
10,700.00	7,730.00	7,870.42	7,705.83	98.18	33.78	90.61	1,230.82	3,115.58	1,667.92	1,561.92	106.00	15.735		
10,800.00	7,730.00	7,870.88	7,706.29	97.99	33.78	90.62	1,230.82	3,115.58	1,723.96	1,615.82	108.14	15.942		
10,900.00	7,730.00	7,871.33	7,706.74	97.81	33.78	90.64	1,230.82	3,115.58	1,783.85	1,673.82	110.03	16.213		
11,000.00	7,730.00	7,871.77	7,707.18	97.64	33.78	90.66	1,230.81	3,115.59	1,847.21	1,735.54	111.68	16.541		
11,100.00	7,730.00	7,872.21	7,707.62	97.50	33.79	90.68	1,230.81	3,115.59	1,913.71	1,800.60	113.11	16.919		
11,200.00	7,730.00	7,872.64	7,708.05	97.36	33.79	90.70	1,230.81	3,115.59	1,983.01	1,868.66	114.35	17.341		
11,300.00	7,730.00	7,873.06	7,708.47	97.24	33.79	90.71	1,230.81	3,115.59	2,054.85	1,939.43	115.43	17.802		
11,400.00	7,730.00	7,873.48	7,708.88	97.14	33.79	90.73	1,230.81	3,115.60	2,128.97	2,012.61	116.35	18.297		
11,500.00	7,730.00	7,873.88	7,709.29	97.06	33.79	90.75	1,230.80	3,115.60	2,205.12	2,087.97	117.15	18.823		
11,600.00	7,730.00	7,874.28	7,709.69	96.98	33.79	90.76	1,230.80	3,115.60	2,283.12	2,165.29	117.83	19.376		
11,700.00	7,730.00	7,874.68	7,710.09	96.93	33.79	90.78	1,230.80	3,115.61	2,362.78	2,244.36	118.42	19.952		
11,800.00	7,730.00	7,875.06	7,710.47	96.90	33.79	90.79	1,230.80	3,115.61	2,443.93	2,325.01	118.92	20.550		
11,900.00	7,730.00	7,875.45	7,710.85	96.88	33.79	90.81	1,230.80	3,115.61	2,526.43	2,407.08	119.35	21.168		
12,000.00	7,730.00	7,875.82	7,711.23	96.88	33.80	90.83	1,230.79	3,115.61	2,610.16	2,490.44	119.72	21.803		
12,100.00	7,730.00	7,876.19	7,711.60	96.90	33.80	90.84	1,230.79	3,115.62	2,695.00	2,574.97	120.03	22.453		
12,200.00	7,730.00	7,876.55	7,711.96	96.94	33.80	90.86	1,230.79	3,115.62	2,780.84	2,660.55	120.29	23.117		
12,300.00	7,730.00	7,876.91	7,712.32	97.00	33.80	90.87	1,230.79	3,115.62	2,867.61	2,747.09	120.52	23.794		
12,400.00	7,730.00	7,877.26	7,712.67	97.08	33.80	90.88	1,230.79	3,115.62	2,955.20	2,834.50	120.71	24.483		
12,500.00	7,730.00	7,877.61	7,713.02	97.18	33.80	90.90	1,230.79	3,115.63	3,043.57	2,922.70	120.86	25.182		
12,600.00	7,730.00	7,877.95	7,713.36	97.31	33.80	90.91	1,230.78	3,115.63	3,132.63	3,011.64	121.00	25.890		
12,700.00	7,730.00	7,878.29	7,713.70	97.46	33.80	90.93	1,230.78	3,115.63	3,222.34	3,101.23	121.10	26.608		
12,800.00	7,730.00	7,878.62	7,714.03	97.64	33.80	90.94	1,230.78	3,115.63	3,312.63	3,191.44	121.19	27.333		
12,900.00	7,730.00	7,878.94	7,714.35	97.85	33.80	90.95	1,230.78	3,115.64	3,403.47	3,282.20	121.27	28.066		
13,000.00	7,730.00	7,879.27	7,714.67	98.09	33.81	90.97	1,230.78	3,115.64	3,494.80	3,373.48	121.32	28.806		
13,100.00	7,730.00	7,879.58	7,714.99	98.35	33.81	90.98	1,230.78	3,115.64	3,586.60	3,465.24	121.37	29.551		
13,200.00	7,730.00	7,879.89	7,715.30	98.65	33.81	90.99	1,230.78	3,115.64	3,678.83	3,557.43	121.40	30.303		
13,300.00	7,730.00	7,880.20	7,715.61	98.98	33.81	91.00	1,230.78	3,115.65	3,771.45	3,650.03	121.43	31.059		
13,400.00	7,730.00	7,880.51	7,715.91	99.34	33.81	91.02	1,230.77	3,115.65	3,864.44	3,743.00	121.44	31.821		
13,500.00	7,730.00	7,880.80	7,716.21	99.74	33.81	91.03	1,230.77	3,115.65	3,957.78	3,836.33	121.45	32.587		
13,600.00	7,730.00	7,881.10	7,716.51	100.17	33.81	91.04	1,230.77	3,115.65	4,051.43	3,929.97	121.45	33.357		
13,700.00	7,730.00	7,881.39	7,716.80	100.65	33.81	91.05	1,230.77	3,115.65	4,145.38	4,023.92	121.45	34.132		
13,800.00	7,730.00	7,881.67	7,717.08	101.16	33.81	91.06	1,230.77	3,115.66	4,239.60	4,118.15	121.45	34.909		
13,900.00	7,730.00	7,881.96	7,717.37	101.71	33.81	91.08	1,230.77	3,115.66	4,334.08	4,212.65	121.44	35.691		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,730.00	7,882.24	7,717.64	102.30	33.81	91.09	1,230.77	3,115.66	4,428.81	4,307.39	121.42	36.475		
14,100.00	7,730.00	7,882.51	7,717.92	102.93	33.81	91.10	1,230.77	3,115.66	4,523.76	4,402.36	121.40	37.262		
14,200.00	7,730.00	7,882.78	7,718.19	103.60	33.82	91.11	1,230.76	3,115.66	4,618.93	4,497.54	121.39	38.052		
14,300.00	7,730.00	7,883.05	7,718.46	104.32	33.82	91.12	1,230.76	3,115.67	4,714.29	4,592.93	121.36	38.844		
14,400.00	7,730.00	7,883.31	7,718.72	105.07	33.82	91.13	1,230.76	3,115.67	4,809.85	4,688.50	121.34	39.639		
14,500.00	7,730.00	7,883.57	7,718.98	105.86	33.82	91.14	1,230.76	3,115.67	4,905.58	4,784.26	121.32	40.436		
14,600.00	7,730.00	7,883.83	7,719.24	106.70	33.82	91.15	1,230.76	3,115.67	5,001.47	4,880.18	121.29	41.235		
14,700.00	7,730.00	7,884.08	7,719.49	107.57	33.82	91.16	1,230.76	3,115.67	5,097.53	4,976.26	121.27	42.036		
14,800.00	7,730.00	7,884.33	7,719.74	108.48	33.82	91.17	1,230.76	3,115.68	5,193.73	5,072.49	121.24	42.838		
14,900.00	7,730.00	7,884.58	7,719.98	109.43	33.82	91.18	1,230.76	3,115.68	5,290.08	5,168.87	121.21	43.643		
15,000.00	7,730.00	7,884.82	7,720.23	110.42	33.82	91.19	1,230.76	3,115.68	5,386.56	5,265.37	121.19	44.448		
15,100.00	7,730.00	7,885.06	7,720.47	111.43	33.82	91.20	1,230.76	3,115.68	5,483.16	5,362.00	121.16	45.256		
15,200.00	7,730.00	7,885.30	7,720.71	112.49	33.82	91.21	1,230.76	3,115.68	5,579.89	5,458.75	121.13	46.064		
15,300.00	7,730.00	7,885.53	7,720.94	113.57	33.82	91.22	1,230.75	3,115.68	5,676.72	5,555.62	121.11	46.874		
15,400.00	7,730.00	7,885.76	7,721.17	114.68	33.82	91.23	1,230.75	3,115.69	5,773.67	5,652.59	121.08	47.686		
15,500.00	7,730.00	7,885.99	7,721.40	115.82	33.82	91.24	1,230.75	3,115.69	5,870.72	5,749.67	121.05	48.498		
15,600.00	7,730.00	7,886.22	7,721.62	116.99	33.83	91.25	1,230.75	3,115.69	5,967.86	5,846.84	121.02	49.311		
15,700.00	7,730.00	7,886.44	7,721.85	118.19	33.83	91.26	1,230.75	3,115.69	6,065.10	5,944.10	121.00	50.125		
15,800.00	7,730.00	7,886.66	7,722.07	119.41	33.83	91.27	1,230.75	3,115.69	6,162.43	6,041.46	120.97	50.940		
15,900.00	7,730.00	7,886.88	7,722.28	120.65	33.83	91.28	1,230.75	3,115.69	6,259.84	6,138.89	120.95	51.756		
16,000.00	7,730.00	7,887.09	7,722.50	121.91	33.83	91.29	1,230.75	3,115.70	6,357.33	6,236.41	120.92	52.573		
16,100.00	7,730.00	7,887.30	7,722.71	123.20	33.83	91.29	1,230.75	3,115.70	6,454.90	6,334.00	120.90	53.391		
16,200.00	7,730.00	7,887.51	7,722.92	124.50	33.83	91.30	1,230.75	3,115.70	6,552.54	6,431.66	120.88	54.209		
16,300.00	7,730.00	7,887.72	7,723.13	125.82	33.83	91.31	1,230.75	3,115.70	6,650.25	6,529.40	120.85	55.027		
16,400.00	7,730.00	7,887.92	7,723.33	127.16	33.83	91.32	1,230.75	3,115.70	6,748.03	6,627.20	120.83	55.847		
16,500.00	7,730.00	7,888.13	7,723.53	128.52	33.83	91.33	1,230.75	3,115.70	6,845.87	6,725.06	120.81	56.666		
16,600.00	7,730.00	7,888.33	7,723.73	129.89	33.83	91.34	1,230.74	3,115.70	6,943.78	6,822.99	120.79	57.487		
16,700.00	7,730.00	7,888.52	7,723.93	131.27	33.83	91.34	1,230.74	3,115.71	7,041.74	6,920.97	120.77	58.307		
16,800.00	7,730.00	7,888.72	7,724.13	132.67	33.83	91.35	1,230.74	3,115.71	7,139.76	7,019.01	120.75	59.128		
16,900.00	7,730.00	7,888.91	7,724.32	134.09	33.83	91.36	1,230.74	3,115.71	7,237.83	7,117.10	120.73	59.950		
17,000.00	7,730.00	7,889.10	7,724.51	135.51	33.83	91.37	1,230.74	3,115.71	7,335.96	7,215.24	120.71	60.771		
17,100.00	7,730.00	7,889.29	7,724.70	136.95	33.83	91.38	1,230.74	3,115.71	7,434.13	7,313.44	120.70	61.593		
17,200.00	7,730.00	7,889.48	7,724.88	138.40	33.83	91.38	1,230.74	3,115.71	7,532.36	7,411.68	120.68	62.416		
17,300.00	7,730.00	7,889.66	7,725.07	139.85	33.83	91.39	1,230.74	3,115.71	7,630.63	7,509.96	120.66	63.238		
17,400.00	7,730.00	7,889.84	7,725.25	141.32	33.84	91.40	1,230.74	3,115.72	7,728.94	7,608.29	120.65	64.061		
17,500.00	7,730.00	7,890.02	7,725.43	142.80	33.84	91.41	1,230.74	3,115.72	7,827.30	7,706.66	120.64	64.884		
17,600.00	7,730.00	7,890.20	7,725.61	144.28	33.84	91.41	1,230.74	3,115.72	7,925.70	7,805.07	120.62	65.706		
17,700.00	7,730.00	7,890.38	7,725.79	145.78	33.84	91.42	1,230.74	3,115.72	8,024.13	7,903.52	120.61	66.529		
17,800.00	7,730.00	7,890.55	7,725.96	147.28	33.84	91.43	1,230.74	3,115.72	8,122.61	8,002.01	120.60	67.353		
17,900.00	7,730.00	7,890.72	7,726.13	148.79	33.84	91.43	1,230.74	3,115.72	8,221.12	8,100.53	120.59	68.176		
18,000.00	7,730.00	7,890.89	7,726.30	150.31	33.84	91.44	1,230.74	3,115.72	8,319.67	8,199.09	120.58	68.999		
18,100.00	7,730.00	7,891.06	7,726.47	151.83	33.84	91.45	1,230.74	3,115.72	8,418.25	8,297.69	120.57	69.822		
18,200.00	7,730.00	7,891.23	7,726.64	153.37	33.84	91.45	1,230.74	3,115.73	8,516.87	8,396.31	120.56	70.645		
18,300.00	7,730.00	7,891.40	7,726.80	154.90	33.84	91.46	1,230.73	3,115.73	8,615.51	8,494.96	120.55	71.468		
18,400.00	7,730.00	7,891.56	7,726.97	156.45	33.84	91.47	1,230.73	3,115.73	8,714.19	8,593.65	120.54	72.291		
18,500.00	7,730.00	7,891.72	7,727.13	158.00	33.84	91.47	1,230.73	3,115.73	8,812.90	8,692.36	120.54	73.114		
18,600.00	7,730.00	7,891.88	7,727.29	159.55	33.84	91.48	1,230.73	3,115.73	8,911.64	8,791.11	120.53	73.937		
18,700.00	7,730.00	7,892.04	7,727.45	161.11	33.84	91.49	1,230.73	3,115.73	9,010.40	8,889.88	120.53	74.759		
18,800.00	7,730.00	7,892.20	7,727.60	162.68	33.84	91.49	1,230.73	3,115.73	9,109.19	8,988.67	120.52	75.582		
18,900.00	7,730.00	7,892.35	7,727.76	164.25	33.84	91.50	1,230.73	3,115.73	9,208.01	9,087.49	120.52	76.404		
19,000.00	7,730.00	7,892.50	7,727.91	165.83	33.84	91.51	1,230.73	3,115.73	9,306.85	9,186.34	120.51	77.227		
19,100.00	7,730.00	7,892.66	7,728.06	167.41	33.84	91.51	1,230.73	3,115.74	9,405.72	9,285.21	120.51	78.049		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		122-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,730.00	7,892.81	7,728.21	168.99	33.84	91.52	1,230.73	3,115.74	9,504.61	9,384.10	120.51	78.870	
19,300.00	7,730.00	7,892.95	7,728.36	170.58	33.84	91.52	1,230.73	3,115.74	9,603.53	9,483.02	120.51	79.692	
19,400.00	7,730.00	7,893.10	7,728.51	172.17	33.84	91.53	1,230.73	3,115.74	9,702.46	9,581.95	120.51	80.513	
19,430.54	7,730.00	7,893.15	7,728.55	172.66	33.84	91.53	1,230.73	3,115.74	9,732.68	9,612.17	120.51	80.764	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	70.06	754.16	2,078.68	2,211.62					
100.00	100.00	81.43	81.43	0.13	0.13	70.06	753.83	2,078.38	2,210.97	2,210.70	0.26	8,402.488		
200.00	200.00	167.81	167.80	0.49	0.41	70.07	753.41	2,077.84	2,210.23	2,209.32	0.91	2,438.724		
300.00	300.00	276.77	276.77	0.85	0.80	70.06	753.72	2,077.21	2,209.79	2,208.14	1.65	1,338.494		
400.00	400.00	383.15	383.14	1.21	1.18	70.05	753.63	2,076.29	2,208.95	2,206.57	2.39	924.893		
500.00	500.00	539.90	539.81	1.57	1.74	70.13	749.66	2,074.24	2,206.99	2,203.69	3.30	668.198		
600.00	599.98	663.10	662.68	1.92	2.19	4.98	741.20	2,071.52	2,200.79	2,196.68	4.10	536.396		
700.00	699.84	742.82	741.96	2.28	2.49	5.20	732.92	2,070.92	2,191.37	2,186.62	4.75	461.167		
800.00	799.45	821.42	819.89	2.64	2.79	5.50	722.69	2,071.81	2,179.45	2,174.04	5.41	403.001		
900.00	898.70	877.15	874.95	3.02	3.01	5.78	714.34	2,073.63	2,165.54	2,159.55	5.99	361.679		
1,000.00	997.47	920.00	917.20	3.41	3.18	6.02	707.58	2,075.98	2,150.33	2,143.82	6.52	329.977		
1,100.00	1,095.62	991.19	987.13	3.84	3.48	6.45	695.49	2,081.54	2,133.53	2,126.35	7.18	297.137		
1,200.00	1,193.06	1,043.87	1,038.63	4.29	3.71	6.83	685.83	2,086.98	2,115.34	2,107.57	7.77	272.254		
1,300.00	1,289.64	1,109.00	1,102.01	4.78	3.99	7.33	673.54	2,095.57	2,096.21	2,087.77	8.43	248.516		
1,400.00	1,385.27	1,149.44	1,141.23	5.32	4.18	7.69	665.85	2,101.76	2,075.69	2,066.70	8.99	230.834		
1,500.00	1,479.82	1,215.59	1,205.30	5.90	4.49	8.26	653.58	2,112.70	2,053.74	2,044.05	9.68	212.099		
1,600.00	1,573.17	1,287.98	1,275.50	6.53	4.83	8.89	641.07	2,125.21	2,029.78	2,019.36	10.42	194.872		
1,700.00	1,665.21	1,352.08	1,337.55	7.23	5.14	9.49	630.21	2,137.06	2,003.98	1,992.86	11.12	180.232		
1,800.00	1,755.84	1,421.05	1,404.04	7.98	5.49	10.19	618.14	2,150.84	1,976.48	1,964.61	11.86	166.603		
1,900.00	1,844.94	1,501.67	1,481.37	8.80	5.92	11.08	603.12	2,167.95	1,946.98	1,934.28	12.70	153.354		
2,000.00	1,932.39	1,594.33	1,570.13	9.68	6.43	12.18	585.24	2,187.64	1,914.63	1,901.01	13.62	140.577		
2,100.00	2,018.11	1,680.54	1,652.71	10.63	6.91	13.31	568.69	2,206.05	1,879.72	1,865.19	14.53	129.382		
2,200.00	2,101.97	1,771.06	1,739.51	11.65	7.43	14.57	551.45	2,225.11	1,841.96	1,826.47	15.48	118.973		
2,300.00	2,183.88	1,841.40	1,806.92	12.74	7.83	15.69	538.22	2,240.20	1,802.07	1,785.73	16.35	110.246		
2,400.00	2,263.74	1,954.93	1,915.88	13.90	8.49	17.52	517.13	2,264.10	1,759.49	1,742.01	17.48	100.655		
2,431.61	2,288.54	1,972.80	1,933.05	14.29	8.59	17.87	513.81	2,267.80	1,745.42	1,727.67	17.75	98.347		
2,500.00	2,341.97	2,022.98	1,981.24	15.13	8.88	18.62	504.49	2,278.23	1,715.02	1,696.62	18.39	93.248		
2,600.00	2,420.08	2,091.96	2,047.40	16.37	9.29	19.69	491.62	2,292.93	1,671.67	1,652.33	19.34	86.435		
2,700.00	2,498.20	2,180.17	2,131.81	17.63	9.82	21.12	474.81	2,312.21	1,629.61	1,609.17	20.44	79.709		
2,800.00	2,576.32	2,275.48	2,222.98	18.89	10.39	22.78	455.40	2,332.10	1,587.61	1,565.96	21.65	73.346		
2,900.00	2,654.43	2,352.44	2,296.65	20.17	10.86	24.18	439.75	2,347.94	1,546.43	1,523.65	22.78	67.874		
3,000.00	2,732.55	2,423.45	2,364.66	21.45	11.29	25.50	426.01	2,363.06	1,506.96	1,483.03	23.93	62.978		
3,100.00	2,810.67	2,512.15	2,449.62	22.74	11.82	27.21	408.94	2,381.98	1,468.70	1,443.47	25.23	58.202		
3,200.00	2,888.78	2,592.01	2,526.02	24.03	12.31	28.84	392.93	2,398.85	1,431.61	1,405.06	26.55	53.915		
3,300.00	2,966.90	2,673.91	2,604.31	25.33	12.82	30.59	376.26	2,416.17	1,395.99	1,368.04	27.95	49.949		
3,400.00	3,045.02	2,755.22	2,682.16	26.63	13.32	32.36	360.36	2,433.42	1,361.87	1,332.48	29.40	46.329		
3,500.00	3,123.13	2,838.57	2,762.03	27.94	13.82	34.23	344.46	2,451.17	1,329.37	1,298.45	30.92	42.995		
3,600.00	3,201.25	2,933.20	2,852.75	29.24	14.40	36.45	326.19	2,470.92	1,298.29	1,265.69	32.60	39.823		
3,700.00	3,279.37	3,017.10	2,933.39	30.55	14.90	38.51	309.93	2,487.44	1,268.10	1,233.82	34.28	36.996		
3,800.00	3,357.49	3,085.51	2,999.06	31.86	15.31	40.21	297.08	2,501.65	1,240.63	1,204.74	35.89	34.570		
3,900.00	3,435.60	3,168.22	3,078.34	33.18	15.82	42.35	281.17	2,519.03	1,215.61	1,177.92	37.69	32.257		
4,000.00	3,513.72	3,256.66	3,163.17	34.49	16.36	44.70	264.16	2,537.37	1,192.60	1,153.00	39.60	30.113		
4,100.00	3,591.84	3,339.80	3,243.05	35.81	16.86	46.95	248.74	2,554.52	1,171.66	1,130.13	41.53	28.212		
4,200.00	3,669.95	3,420.06	3,320.15	37.12	17.34	49.17	233.80	2,571.06	1,153.22	1,109.73	43.49	26.518		
4,300.00	3,748.07	3,496.37	3,393.40	38.44	17.81	51.34	219.40	2,586.91	1,137.60	1,092.14	45.46	25.026		
4,400.00	3,826.19	3,572.57	3,466.35	39.76	18.28	53.56	204.10	2,602.73	1,125.23	1,077.76	47.47	23.703		
4,500.00	3,904.30	3,657.19	3,547.36	41.08	18.80	56.05	187.39	2,620.59	1,115.86	1,066.25	49.61	22.492		
4,600.00	3,982.42	3,747.63	3,634.17	42.40	19.35	58.71	170.63	2,639.60	1,108.69	1,056.86	51.84	21.388		
4,700.00	4,060.54	3,815.87	3,699.59	43.72	19.77	60.73	157.71	2,654.09	1,104.82	1,051.01	53.81	20.533		
4,774.16	4,118.47	3,881.15	3,762.07	44.70	20.17	62.68	144.86	2,667.97	1,104.20	1,048.74	55.46	19.909 CC		
4,800.00	4,138.66	3,905.12	3,785.05	45.05	20.32	63.40	140.17	2,672.95	1,104.27	1,048.22	56.05	19.700 ES		
4,900.00	4,216.77	3,981.78	3,858.53	46.37	20.79	65.69	125.27	2,688.93	1,106.44	1,048.31	58.13	19.035		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,062.41	3,935.67	47.69	21.30	68.07	109.70	2,706.47	1,112.01	1,051.78	60.23	18.463		
5,100.00	4,373.01	4,158.54	4,027.80	49.02	21.89	70.90	91.19	2,726.75	1,120.14	1,057.60	62.54	17.912		
5,200.00	4,451.12	4,246.27	4,112.17	50.34	22.42	73.41	75.87	2,745.24	1,129.81	1,065.13	64.68	17.468		
5,300.00	4,529.24	4,319.22	4,182.23	51.67	22.86	75.48	62.66	2,760.70	1,142.74	1,076.16	66.57	17.166		
5,400.00	4,607.36	4,394.90	4,254.84	52.99	23.32	77.62	48.17	2,776.34	1,158.84	1,090.39	68.45	16.930		
5,500.00	4,685.47	4,465.02	4,321.96	54.32	23.76	79.56	34.37	2,791.27	1,178.20	1,108.02	70.17	16.790		
5,600.00	4,763.59	4,534.41	4,388.12	55.64	24.20	81.41	20.39	2,806.81	1,200.78	1,128.96	71.82	16.720		
5,700.00	4,841.71	4,603.02	4,453.41	56.97	24.65	83.23	5.60	2,821.81	1,226.55	1,153.17	73.38	16.716		
5,800.00	4,919.83	4,675.33	4,522.01	58.30	25.12	85.09	-10.54	2,837.98	1,255.26	1,180.33	74.94	16.751		
5,900.00	4,997.94	4,809.02	4,649.78	59.62	25.97	88.41	-37.58	2,866.52	1,283.78	1,206.24	77.54	16.556		
6,000.00	5,076.06	4,902.78	4,739.98	60.95	26.53	90.68	-55.33	2,884.97	1,313.12	1,233.77	79.35	16.548		
6,100.00	5,154.18	5,019.61	4,853.11	62.28	27.19	93.47	-75.93	2,905.57	1,342.93	1,261.50	81.43	16.492		
6,200.00	5,232.29	5,153.26	4,983.68	63.61	27.88	96.59	-95.65	2,926.12	1,371.91	1,288.32	83.59	16.412		
6,300.00	5,310.41	5,316.61	5,144.97	64.93	28.59	100.34	-111.71	2,946.11	1,397.90	1,312.09	85.81	16.290 SF		
6,400.00	5,388.53	5,433.67	5,261.41	66.26	29.02	103.08	-119.55	2,955.04	1,423.24	1,335.92	87.32	16.299		
6,500.00	5,466.64	5,561.37	5,388.89	67.59	29.41	106.10	-124.61	2,960.42	1,448.20	1,359.52	88.69	16.330		
6,600.00	5,544.76	5,666.18	5,493.67	68.92	29.69	108.56	-126.11	2,962.73	1,473.22	1,383.45	89.77	16.412		
6,700.00	5,622.88	5,754.77	5,582.25	70.25	29.91	110.61	-126.41	2,963.71	1,499.52	1,408.85	90.67	16.539		
6,800.00	5,701.00	5,834.70	5,662.17	71.58	30.10	112.43	-126.33	2,964.03	1,527.55	1,436.12	91.43	16.708		
6,900.00	5,779.11	5,906.86	5,734.33	72.91	30.27	114.04	-126.43	2,964.04	1,557.77	1,465.70	92.07	16.920		
7,000.00	5,857.23	5,998.64	5,826.11	74.23	30.48	116.03	-126.33	2,964.22	1,589.67	1,496.96	92.71	17.147		
7,100.00	5,935.35	6,073.93	5,901.40	75.56	30.65	117.62	-125.99	2,964.27	1,623.07	1,529.86	93.21	17.413		
7,200.00	6,013.46	6,148.12	5,975.59	76.89	30.81	119.15	-125.72	2,963.85	1,658.30	1,564.67	93.63	17.712		
7,300.00	6,091.58	6,226.30	6,053.77	78.22	30.99	120.72	-125.58	2,963.38	1,695.26	1,601.26	94.01	18.034		
7,400.00	6,169.70	6,306.43	6,133.89	79.55	31.17	122.27	-125.34	2,963.29	1,733.54	1,639.18	94.36	18.372		
7,500.00	6,247.81	6,379.43	6,206.90	80.88	31.33	123.64	-125.26	2,963.21	1,773.32	1,678.68	94.64	18.738		
7,600.00	6,325.93	6,459.43	6,286.90	82.21	31.51	125.10	-125.09	2,962.65	1,814.43	1,719.53	94.90	19.119		
7,700.00	6,404.05	6,580.10	6,407.56	83.54	31.79	127.20	-123.70	2,962.65	1,855.95	1,760.61	95.34	19.467		
7,800.00	6,482.17	6,643.73	6,471.17	84.87	31.95	128.24	-122.88	2,963.53	1,898.04	1,802.50	95.53	19.868		
7,900.00	6,560.28	6,714.20	6,541.63	86.20	32.13	129.35	-122.29	2,964.59	1,941.46	1,845.72	95.74	20.279		
8,000.00	6,638.40	6,806.84	6,634.26	87.53	32.37	130.77	-121.63	2,965.86	1,985.98	1,889.92	96.06	20.675		
8,100.00	6,716.52	6,884.32	6,711.70	88.86	32.57	131.88	-120.76	2,968.07	2,030.57	1,934.27	96.30	21.086		
8,200.00	6,794.63	6,940.00	6,767.38	90.20	32.72	132.67	-120.39	2,968.78	2,076.78	1,980.40	96.38	21.547		
8,300.00	6,872.75	7,000.36	6,827.74	91.53	32.87	133.53	-120.33	2,968.83	2,124.56	2,028.11	96.45	22.027		
8,400.00	6,950.87	7,073.00	6,900.37	92.86	33.05	134.53	-120.56	2,968.48	2,173.58	2,077.00	96.58	22.505		
8,500.00	7,028.98	7,158.21	6,985.58	94.19	33.25	135.67	-120.50	2,967.79	2,223.15	2,126.37	96.78	22.971		
8,600.00	7,107.10	7,244.60	7,071.96	95.52	33.45	136.80	-120.03	2,966.91	2,273.13	2,176.16	96.98	23.440		
8,647.91	7,144.53	7,288.79	7,116.15	96.16	33.56	137.36	-119.54	2,966.38	2,297.17	2,200.08	97.08	23.662		
8,650.00	7,146.16	7,290.72	7,118.07	96.18	33.56	137.08	-119.52	2,966.36	2,298.21	2,201.13	97.09	23.672		
8,700.00	7,185.66	7,330.72	7,158.07	96.84	33.66	130.22	-118.94	2,965.83	2,321.52	2,224.37	97.15	23.897		
8,750.00	7,225.78	7,364.11	7,191.45	97.47	33.74	123.07	-118.60	2,965.51	2,341.60	2,244.44	97.15	24.102		
8,800.00	7,266.21	7,397.90	7,225.24	98.08	33.82	115.89	-118.46	2,965.32	2,358.38	2,261.24	97.14	24.277		
8,850.00	7,306.63	7,434.73	7,262.08	98.64	33.91	108.93	-118.45	2,965.22	2,371.79	2,274.66	97.13	24.418		
8,900.00	7,346.75	7,472.68	7,300.03	99.17	34.00	102.42	-118.41	2,964.98	2,381.74	2,284.65	97.09	24.530		
8,950.00	7,386.25	7,511.04	7,338.38	99.64	34.09	96.53	-118.30	2,964.59	2,388.21	2,291.19	97.03	24.614		
9,000.00	7,424.84	7,555.11	7,382.46	100.06	34.20	91.47	-118.16	2,964.20	2,391.15	2,294.19	96.96	24.660		
9,050.00	7,462.22	7,598.09	7,425.43	100.42	34.31	87.20	-118.03	2,964.02	2,390.55	2,293.68	96.86	24.680		
9,100.00	7,498.11	7,637.89	7,465.23	100.74	34.41	83.71	-117.88	2,963.96	2,386.49	2,289.78	96.71	24.677		
9,150.00	7,532.24	7,675.65	7,502.99	100.99	34.50	80.91	-117.68	2,963.92	2,379.08	2,282.58	96.50	24.653		
9,200.00	7,564.34	7,707.15	7,534.49	101.19	34.58	78.90	-117.47	2,963.90	2,368.45	2,272.24	96.22	24.616		
9,250.00	7,594.17	7,733.05	7,560.39	101.34	34.65	77.42	-117.37	2,963.92	2,354.81	2,258.95	95.86	24.566		
9,300.00	7,621.50	7,756.97	7,584.31	101.45	34.72	76.57	-117.35	2,963.96	2,338.29	2,242.85	95.45	24.498		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,778.73	7,606.07	101.50	34.78	76.31	-117.39	2,964.03	2,319.04	2,224.05	95.00	24.412		
9,400.00	7,667.87	7,799.51	7,626.85	101.51	34.83	76.66	-117.46	2,964.10	2,297.21	2,202.70	94.51	24.307		
9,450.00	7,686.55	7,818.12	7,645.46	101.48	34.88	77.56	-117.53	2,964.16	2,272.96	2,178.97	93.99	24.184		
9,500.00	7,702.04	7,833.56	7,660.89	101.42	34.93	79.00	-117.58	2,964.21	2,246.46	2,153.04	93.42	24.047		
9,550.00	7,714.20	7,845.71	7,673.05	101.33	34.96	80.96	-117.62	2,964.24	2,217.93	2,125.11	92.82	23.896		
9,600.00	7,722.96	7,854.49	7,681.83	101.20	34.99	83.44	-117.64	2,964.26	2,187.54	2,095.36	92.18	23.731		
9,650.00	7,728.24	7,859.84	7,687.18	101.06	35.00	86.44	-117.66	2,964.27	2,155.51	2,063.98	91.52	23.551		
9,699.97	7,730.00	7,861.73	7,689.07	100.90	35.01	89.97	-117.67	2,964.28	2,122.05	2,031.20	90.85	23.358		
9,800.00	7,730.00	7,862.03	7,689.37	100.56	35.01	89.98	-117.67	2,964.28	2,055.06	1,965.62	89.45	22.975		
9,900.00	7,730.00	7,862.33	7,689.67	100.24	35.01	89.99	-117.67	2,964.28	1,990.87	1,902.90	87.97	22.631		
10,000.00	7,730.00	7,862.63	7,689.97	99.93	35.01	90.00	-117.67	2,964.28	1,929.73	1,843.29	86.44	22.325		
10,100.00	7,730.00	7,862.93	7,690.27	99.64	35.01	90.01	-117.67	2,964.28	1,871.93	1,787.06	84.87	22.057		
10,200.00	7,730.00	7,863.23	7,690.57	99.36	35.01	90.02	-117.67	2,964.28	1,817.80	1,734.51	83.29	21.825		
10,300.00	7,730.00	7,863.53	7,690.87	99.09	35.01	90.03	-117.67	2,964.28	1,767.68	1,685.94	81.74	21.626		
10,400.00	7,730.00	7,863.83	7,691.17	98.84	35.01	90.04	-117.67	2,964.28	1,721.91	1,641.63	80.28	21.450		
10,500.00	7,730.00	7,864.13	7,691.46	98.61	35.01	90.05	-117.67	2,964.28	1,680.85	1,601.89	78.96	21.288		
10,600.00	7,730.00	7,864.42	7,691.76	98.39	35.01	90.07	-117.68	2,964.28	1,644.85	1,566.99	77.86	21.126		
10,700.00	7,730.00	7,864.72	7,692.06	98.18	35.02	90.08	-117.68	2,964.28	1,614.25	1,537.19	77.06	20.949		
10,800.00	7,730.00	7,865.02	7,692.35	97.99	35.02	90.09	-117.68	2,964.29	1,589.36	1,512.75	76.61	20.745		
10,900.00	7,730.00	7,865.31	7,692.65	97.81	35.02	90.10	-117.68	2,964.29	1,570.46	1,493.88	76.58	20.508		
11,000.00	7,730.00	7,865.61	7,692.95	97.64	35.02	90.11	-117.68	2,964.29	1,557.76	1,480.79	76.97	20.238		
11,100.00	7,730.00	7,865.90	7,693.24	97.50	35.02	90.12	-117.68	2,964.29	1,551.42	1,473.65	77.78	19.947		
11,148.61	7,730.00	7,866.05	7,693.38	97.43	35.02	90.13	-117.68	2,964.29	1,550.66	1,472.35	78.31	19.801		
11,200.00	7,730.00	7,866.20	7,693.54	97.36	35.02	90.13	-117.68	2,964.29	1,551.51	1,472.56	78.95	19.651		
11,300.00	7,730.00	7,866.49	7,693.83	97.24	35.02	90.14	-117.68	2,964.29	1,558.03	1,477.60	80.43	19.371		
11,400.00	7,730.00	7,866.79	7,694.12	97.14	35.02	90.15	-117.68	2,964.29	1,570.90	1,488.76	82.14	19.124		
11,500.00	7,730.00	7,867.08	7,694.42	97.06	35.02	90.16	-117.68	2,964.29	1,589.97	1,505.97	84.01	18.927		
11,600.00	7,730.00	7,867.37	7,694.71	96.98	35.02	90.17	-117.68	2,964.29	1,615.02	1,529.07	85.95	18.790		
11,700.00	7,730.00	7,867.66	7,695.00	96.93	35.02	90.18	-117.69	2,964.29	1,645.77	1,557.85	87.92	18.719		
11,800.00	7,730.00	7,867.95	7,695.29	96.90	35.02	90.20	-117.69	2,964.29	1,681.92	1,592.06	89.86	18.717		
11,900.00	7,730.00	7,868.25	7,695.58	96.88	35.02	90.21	-117.69	2,964.29	1,723.11	1,631.38	91.74	18.783		
12,000.00	7,730.00	7,868.54	7,695.88	96.88	35.03	90.22	-117.69	2,964.29	1,769.01	1,675.48	93.53	18.915		
12,100.00	7,730.00	7,868.83	7,696.17	96.90	35.03	90.23	-117.69	2,964.29	1,819.25	1,724.04	95.21	19.108		
12,200.00	7,730.00	7,869.12	7,696.46	96.94	35.03	90.24	-117.69	2,964.29	1,873.48	1,776.70	96.78	19.357		
12,300.00	7,730.00	7,869.41	7,696.75	97.00	35.03	90.25	-117.69	2,964.29	1,931.38	1,833.14	98.24	19.660		
12,400.00	7,730.00	7,869.70	7,697.03	97.08	35.03	90.26	-117.69	2,964.30	1,992.61	1,893.03	99.58	20.010		
12,500.00	7,730.00	7,869.98	7,697.32	97.18	35.03	90.27	-117.69	2,964.30	2,056.88	1,956.07	100.81	20.403		
12,600.00	7,730.00	7,870.27	7,697.61	97.31	35.03	90.28	-117.69	2,964.30	2,123.92	2,021.98	101.94	20.835		
12,700.00	7,730.00	7,870.56	7,697.90	97.46	35.03	90.29	-117.69	2,964.30	2,193.47	2,090.50	102.97	21.302		
12,800.00	7,730.00	7,870.85	7,698.19	97.64	35.03	90.30	-117.70	2,964.30	2,265.30	2,161.40	103.91	21.802		
12,900.00	7,730.00	7,871.13	7,698.47	97.85	35.03	90.31	-117.70	2,964.30	2,339.20	2,234.45	104.76	22.330		
13,000.00	7,730.00	7,871.42	7,698.76	98.09	35.03	90.32	-117.70	2,964.30	2,414.98	2,309.45	105.53	22.884		
13,100.00	7,730.00	7,871.71	7,699.04	98.35	35.03	90.33	-117.70	2,964.30	2,492.47	2,386.23	106.24	23.461		
13,200.00	7,730.00	7,871.99	7,699.33	98.65	35.04	90.34	-117.70	2,964.30	2,571.51	2,464.63	106.88	24.060		
13,300.00	7,730.00	7,872.28	7,699.61	98.98	35.04	90.36	-117.70	2,964.30	2,651.97	2,544.51	107.46	24.678		
13,400.00	7,730.00	7,872.56	7,699.90	99.34	35.04	90.37	-117.70	2,964.30	2,733.72	2,625.72	108.00	25.313		
13,500.00	7,730.00	7,872.84	7,700.18	99.74	35.04	90.38	-117.70	2,964.30	2,816.65	2,708.17	108.48	25.964		
13,600.00	7,730.00	7,873.13	7,700.47	100.17	35.04	90.39	-117.70	2,964.30	2,900.65	2,791.72	108.93	26.629		
13,700.00	7,730.00	7,873.41	7,700.75	100.65	35.04	90.40	-117.70	2,964.30	2,985.64	2,876.31	109.33	27.308		
13,800.00	7,730.00	7,873.69	7,701.03	101.16	35.04	90.41	-117.70	2,964.30	3,071.53	2,961.83	109.70	27.998		
13,900.00	7,730.00	7,873.98	7,701.31	101.71	35.04	90.42	-117.70	2,964.30	3,158.26	3,048.21	110.05	28.700		
14,000.00	7,730.00	7,874.26	7,701.60	102.30	35.04	90.43	-117.71	2,964.30	3,245.75	3,135.39	110.36	29.411		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,874.54	7,701.88	102.93	35.04	90.44	-117.71	2,964.31	3,333.94	3,223.29	110.65	30.132		
14,200.00	7,730.00	7,874.82	7,702.16	103.60	35.04	90.45	-117.71	2,964.31	3,422.78	3,311.87	110.91	30.861		
14,300.00	7,730.00	7,875.10	7,702.44	104.32	35.04	90.46	-117.71	2,964.31	3,512.22	3,401.06	111.15	31.598		
14,400.00	7,730.00	7,875.38	7,702.72	105.07	35.04	90.47	-117.71	2,964.31	3,602.22	3,490.83	111.38	32.341		
14,500.00	7,730.00	7,875.66	7,703.00	105.86	35.05	90.48	-117.71	2,964.31	3,692.73	3,581.14	111.59	33.092		
14,600.00	7,730.00	7,875.94	7,703.28	106.70	35.05	90.49	-117.71	2,964.31	3,783.72	3,671.93	111.78	33.849		
14,700.00	7,730.00	7,876.22	7,703.56	107.57	35.05	90.50	-117.71	2,964.31	3,875.15	3,763.18	111.96	34.611		
14,800.00	7,730.00	7,876.50	7,703.83	108.48	35.05	90.51	-117.71	2,964.31	3,966.99	3,854.86	112.13	35.378		
14,900.00	7,730.00	7,876.77	7,704.11	109.43	35.05	90.52	-117.71	2,964.31	4,059.23	3,946.94	112.29	36.150		
15,000.00	7,730.00	7,877.05	7,704.39	110.42	35.05	90.53	-117.71	2,964.31	4,151.82	4,039.38	112.43	36.927		
15,100.00	7,730.00	7,877.33	7,704.67	111.43	35.05	90.54	-117.71	2,964.31	4,244.74	4,132.18	112.57	37.708		
15,200.00	7,730.00	7,877.60	7,704.94	112.49	35.05	90.55	-117.72	2,964.31	4,337.99	4,225.29	112.70	38.493		
15,300.00	7,730.00	7,877.88	7,705.22	113.57	35.05	90.56	-117.72	2,964.31	4,431.52	4,318.71	112.82	39.281		
15,400.00	7,730.00	7,878.16	7,705.49	114.68	35.05	90.57	-117.72	2,964.31	4,525.34	4,412.41	112.93	40.073		
15,500.00	7,730.00	7,878.43	7,705.77	115.82	35.05	90.58	-117.72	2,964.31	4,619.41	4,506.37	113.03	40.867		
15,600.00	7,730.00	7,878.71	7,706.04	116.99	35.05	90.59	-117.72	2,964.31	4,713.73	4,600.59	113.13	41.665		
15,700.00	7,730.00	7,878.98	7,706.32	118.19	35.06	90.60	-117.72	2,964.31	4,808.27	4,695.04	113.23	42.465		
15,800.00	7,730.00	7,879.25	7,706.59	119.41	35.06	90.61	-117.72	2,964.31	4,903.03	4,789.72	113.32	43.268		
15,900.00	7,730.00	7,879.53	7,706.87	120.65	35.06	90.62	-117.72	2,964.32	4,998.00	4,884.60	113.40	44.073		
16,000.00	7,730.00	7,879.80	7,707.14	121.91	35.06	90.63	-117.72	2,964.32	5,093.16	4,979.68	113.48	44.881		
16,100.00	7,730.00	7,880.07	7,707.41	123.20	35.06	90.64	-117.72	2,964.32	5,188.50	5,074.94	113.56	45.690		
16,200.00	7,730.00	7,880.35	7,707.68	124.50	35.06	90.65	-117.72	2,964.32	5,284.02	5,170.38	113.63	46.501		
16,300.00	7,730.00	7,880.62	7,707.96	125.82	35.06	90.66	-117.72	2,964.32	5,379.69	5,265.99	113.70	47.314		
16,400.00	7,730.00	7,880.89	7,708.23	127.16	35.06	90.67	-117.72	2,964.32	5,475.52	5,361.76	113.77	48.129		
16,500.00	7,730.00	7,881.16	7,708.50	128.52	35.06	90.68	-117.73	2,964.32	5,571.50	5,457.67	113.83	48.945		
16,600.00	7,730.00	7,881.43	7,708.77	129.89	35.06	90.69	-117.73	2,964.32	5,667.62	5,553.73	113.89	49.763		
16,700.00	7,730.00	7,881.70	7,709.04	131.27	35.06	90.70	-117.73	2,964.32	5,763.87	5,649.92	113.95	50.582		
16,800.00	7,730.00	7,881.97	7,709.31	132.67	35.06	90.71	-117.73	2,964.32	5,860.24	5,746.23	114.01	51.402		
16,900.00	7,730.00	7,882.24	7,709.58	134.09	35.06	90.72	-117.73	2,964.32	5,956.74	5,842.67	114.06	52.224		
17,000.00	7,730.00	7,882.51	7,709.85	135.51	35.06	90.73	-117.73	2,964.32	6,053.34	5,939.23	114.11	53.046		
17,100.00	7,730.00	7,882.78	7,710.12	136.95	35.07	90.74	-117.73	2,964.32	6,150.06	6,035.89	114.17	53.870		
17,200.00	7,730.00	7,883.05	7,710.38	138.40	35.07	90.75	-117.73	2,964.32	6,246.88	6,132.66	114.21	54.694		
17,300.00	7,730.00	7,883.31	7,710.65	139.85	35.07	90.76	-117.73	2,964.32	6,343.80	6,229.54	114.26	55.520		
17,400.00	7,730.00	7,883.58	7,710.92	141.32	35.07	90.77	-117.73	2,964.32	6,440.81	6,326.50	114.31	56.346		
17,500.00	7,730.00	7,883.85	7,711.19	142.80	35.07	90.78	-117.73	2,964.32	6,537.91	6,423.56	114.35	57.172		
17,600.00	7,730.00	7,884.11	7,711.45	144.28	35.07	90.79	-117.73	2,964.32	6,635.10	6,520.70	114.40	58.000		
17,700.00	7,730.00	7,884.38	7,711.72	145.78	35.07	90.80	-117.73	2,964.32	6,732.37	6,617.93	114.44	58.828		
17,800.00	7,730.00	7,884.65	7,711.98	147.28	35.07	90.81	-117.74	2,964.32	6,829.72	6,715.24	114.48	59.657		
17,900.00	7,730.00	7,884.91	7,712.25	148.79	35.07	90.82	-117.74	2,964.33	6,927.15	6,812.62	114.53	60.486		
18,000.00	7,730.00	7,884.98	7,712.32	150.31	35.07	90.82	-117.74	2,964.33	7,024.64	6,910.08	114.57	61.316		
18,100.00	7,730.00	7,885.22	7,712.56	151.83	35.07	90.83	-117.74	2,964.33	7,122.21	7,007.61	114.61	62.146		
18,200.00	7,730.00	7,885.47	7,712.81	153.37	35.07	90.84	-117.74	2,964.33	7,219.85	7,105.20	114.64	62.976		
18,300.00	7,730.00	7,885.71	7,713.05	154.90	35.07	90.85	-117.74	2,964.33	7,317.54	7,202.86	114.68	63.807		
18,400.00	7,730.00	7,885.95	7,713.29	156.45	35.07	90.86	-117.74	2,964.33	7,415.30	7,300.58	114.72	64.638		
18,500.00	7,730.00	7,886.20	7,713.53	158.00	35.08	90.87	-117.74	2,964.33	7,513.12	7,398.36	114.76	65.469		
18,600.00	7,730.00	7,886.44	7,713.77	159.55	35.08	90.88	-117.74	2,964.33	7,610.99	7,496.20	114.80	66.301		
18,700.00	7,730.00	7,886.68	7,714.01	161.11	35.08	90.89	-117.74	2,964.33	7,708.92	7,594.09	114.83	67.132		
18,800.00	7,730.00	7,886.91	7,714.25	162.68	35.08	90.90	-117.74	2,964.33	7,806.90	7,692.04	114.87	67.964		
18,900.00	7,730.00	7,887.15	7,714.49	164.25	35.08	90.90	-117.74	2,964.33	7,904.94	7,790.03	114.90	68.796		
19,000.00	7,730.00	7,887.39	7,714.72	165.83	35.08	90.91	-117.74	2,964.33	8,003.02	7,888.08	114.94	69.628		
19,100.00	7,730.00	7,887.62	7,714.96	167.41	35.08	90.92	-117.74	2,964.33	8,101.14	7,986.17	114.97	70.460		
19,200.00	7,730.00	7,887.85	7,715.19	168.99	35.08	90.93	-117.74	2,964.33	8,199.32	8,084.31	115.01	71.292		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		91-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	7,888.09	7,715.42	170.58	35.08	90.94	-117.74	2,964.33	8,297.53	8,182.49	115.04	72.124	
19,400.00	7,730.00	7,888.32	7,715.66	172.17	35.08	90.95	-117.75	2,964.33	8,395.79	8,280.71	115.08	72.956	
19,430.54	7,730.00	7,888.39	7,715.73	172.66	35.08	90.95	-117.75	2,964.33	8,425.81	8,310.72	115.09	73.211	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.05	747.37	5,354.61	5,407.11					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	80.93	832.29	5,214.74	5,397.05	5,392.26	4.80	1,125.531		
200.00	200.00	1,204.40	1,185.11	0.49	5.07	80.84	838.62	5,203.04	5,376.74	5,371.54	5.21	1,032.577		
300.00	300.00	1,252.30	1,231.59	0.85	5.33	80.77	844.15	5,192.88	5,357.42	5,351.71	5.71	938.916		
400.00	400.00	1,331.24	1,308.32	1.21	5.75	80.64	853.10	5,176.62	5,338.72	5,332.34	6.38	836.579		
500.00	500.00	1,452.45	1,425.98	1.57	6.41	80.44	867.78	5,151.49	5,320.05	5,312.78	7.27	731.939		
600.00	599.98	1,641.00	1,608.13	1.92	7.47	14.85	893.67	5,110.26	5,299.06	5,290.55	8.50	623.058		
700.00	699.84	1,713.00	1,677.59	2.28	7.88	14.86	903.36	5,093.96	5,273.85	5,264.65	9.20	573.253		
800.00	799.45	1,814.31	1,775.36	2.64	8.47	14.84	917.00	5,071.17	5,245.58	5,235.55	10.03	522.790		
900.00	898.70	1,876.58	1,835.57	3.02	8.82	14.91	924.92	5,057.39	5,214.37	5,203.69	10.68	488.280		
1,000.00	997.47	1,932.84	1,890.12	3.41	9.12	15.02	931.52	5,045.35	5,180.57	5,169.28	11.29	458.734		
1,100.00	1,095.62	1,994.00	1,949.62	3.84	9.45	15.15	938.22	5,032.87	5,144.38	5,132.45	11.93	431.321		
1,200.00	1,193.06	2,090.00	2,043.06	4.29	9.97	15.28	948.74	5,013.54	5,105.39	5,092.68	12.71	401.576		
1,300.00	1,289.64	2,217.54	2,166.83	4.78	10.67	15.39	963.82	4,986.73	5,062.59	5,048.93	13.65	370.846		
1,400.00	1,385.27	2,290.57	2,237.64	5.32	11.07	15.59	972.83	4,971.26	5,016.77	5,002.42	14.35	349.531		
1,500.00	1,479.82	2,352.93	2,298.17	5.90	11.41	15.83	980.41	4,958.34	4,968.38	4,953.37	15.01	331.015		
1,600.00	1,573.17	2,433.34	2,376.30	6.53	11.85	16.10	990.12	4,941.97	4,917.38	4,901.63	15.75	312.233		
1,700.00	1,665.21	2,532.05	2,472.09	7.23	12.39	16.39	1,002.62	4,921.69	4,863.45	4,846.88	16.57	293.427		
1,800.00	1,755.84	2,601.94	2,539.88	7.98	12.77	16.74	1,011.51	4,907.21	4,806.62	4,789.34	17.28	278.188		
1,900.00	1,844.94	2,664.12	2,600.32	8.80	13.11	17.14	1,019.04	4,894.66	4,747.41	4,729.46	17.95	264.470		
2,000.00	1,932.39	2,734.73	2,669.10	9.68	13.49	17.61	1,026.79	4,880.72	4,685.74	4,667.09	18.66	251.177		
2,100.00	2,018.11	2,956.04	2,883.62	10.63	14.71	18.15	1,053.81	4,833.68	4,620.71	4,600.73	19.98	231.237		
2,200.00	2,101.97	3,003.68	2,929.64	11.65	14.99	18.76	1,059.75	4,822.84	4,551.92	4,531.31	20.61	220.876		
2,300.00	2,183.88	3,049.96	2,974.36	12.74	15.25	19.43	1,065.75	4,812.53	4,481.14	4,459.91	21.24	210.998		
2,400.00	2,263.74	3,094.99	3,017.83	13.90	15.51	20.17	1,072.08	4,802.65	4,408.45	4,386.58	21.87	201.571		
2,431.61	2,288.54	3,116.00	3,038.10	14.29	15.63	20.43	1,075.21	4,798.10	4,385.10	4,362.99	22.10	198.408		
2,500.00	2,341.97	3,165.59	3,085.91	15.13	15.92	20.46	1,082.77	4,787.30	4,334.30	4,311.69	22.61	191.679		
2,600.00	2,420.08	3,236.98	3,154.65	16.37	16.34	20.50	1,093.76	4,771.51	4,259.80	4,236.44	23.36	182.356		
2,700.00	2,498.20	3,288.60	3,204.36	17.63	16.64	20.53	1,101.86	4,760.19	4,185.47	4,161.43	24.04	174.087		
2,800.00	2,576.32	3,379.01	3,291.41	18.89	17.17	20.58	1,116.09	4,740.36	4,111.16	4,086.28	24.87	165.275		
2,900.00	2,654.43	3,481.81	3,390.35	20.17	17.78	20.66	1,131.48	4,717.07	4,036.27	4,010.52	25.74	156.785		
3,000.00	2,732.55	3,564.93	3,470.45	21.45	18.27	20.75	1,142.62	4,697.88	3,960.93	3,934.39	26.53	149.280		
3,100.00	2,810.67	3,611.13	3,515.07	22.74	18.53	20.82	1,148.18	4,687.27	3,885.55	3,858.34	27.21	142.783		
3,200.00	2,888.78	3,646.44	3,549.24	24.03	18.73	20.87	1,152.40	4,679.44	3,810.68	3,782.81	27.87	136.720		
3,300.00	2,966.90	3,690.12	3,591.59	25.33	18.98	20.95	1,157.62	4,670.12	3,736.35	3,707.78	28.57	130.798		
3,400.00	3,045.02	3,785.99	3,684.44	26.63	19.51	21.10	1,169.32	4,649.28	3,661.76	3,632.37	29.39	124.577		
3,500.00	3,123.13	3,832.65	3,729.60	27.94	19.78	21.18	1,175.20	4,639.12	3,587.23	3,557.12	30.11	119.129		
3,600.00	3,201.25	3,903.97	3,798.66	29.24	20.18	21.29	1,184.42	4,623.86	3,513.01	3,482.12	30.89	113.718		
3,700.00	3,279.37	3,985.06	3,877.08	30.55	20.64	21.43	1,194.67	4,605.94	3,438.26	3,406.57	31.69	108.494		
3,800.00	3,357.49	4,030.15	3,920.77	31.86	20.89	21.52	1,200.04	4,596.19	3,363.77	3,331.35	32.43	103.728		
3,900.00	3,435.60	4,073.30	3,962.69	33.18	21.13	21.61	1,204.88	4,587.17	3,289.74	3,256.56	33.17	99.168		
4,000.00	3,513.72	4,114.07	4,002.40	34.49	21.34	21.72	1,209.15	4,579.02	3,216.24	3,182.31	33.92	94.807		
4,100.00	3,591.84	4,150.00	4,037.49	35.81	21.53	21.82	1,212.67	4,572.15	3,143.33	3,108.64	34.69	90.623		
4,200.00	3,669.95	4,200.00	4,086.46	37.12	21.77	21.98	1,217.09	4,563.05	3,070.97	3,035.50	35.46	86.592		
4,300.00	3,748.07	4,243.00	4,128.69	38.44	21.98	22.14	1,220.41	4,555.66	2,999.18	2,962.93	36.26	82.723		
4,400.00	3,826.19	4,280.48	4,165.58	39.76	22.15	22.29	1,222.98	4,549.62	2,928.11	2,891.05	37.05	79.025		
4,500.00	3,904.30	4,317.26	4,201.89	41.08	22.31	22.45	1,225.26	4,544.17	2,857.87	2,820.00	37.87	75.465		
4,600.00	3,982.42	4,354.82	4,239.05	42.40	22.47	22.63	1,227.34	4,539.07	2,788.51	2,749.81	38.70	72.046		
4,700.00	4,060.54	4,393.21	4,277.09	43.72	22.63	22.82	1,229.33	4,534.34	2,720.06	2,680.51	39.56	68.764		
4,800.00	4,138.66	4,433.44	4,317.03	45.05	22.79	23.04	1,231.28	4,529.90	2,652.56	2,612.13	40.43	65.608		
4,900.00	4,216.77	4,489.98	4,373.22	46.37	22.99	23.36	1,233.64	4,524.21	2,585.79	2,544.47	41.32	62.586		
5,000.00	4,294.89	4,542.61	4,425.60	47.69	23.18	23.68	1,235.37	4,519.31	2,519.59	2,477.37	42.23	59.670		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,589.97	4,472.78	49.02	23.35	23.99	1,236.81	4,515.41	2,454.23	2,411.07	43.16	56.864		
5,200.00	4,451.12	4,638.16	4,520.83	50.34	23.51	24.32	1,238.18	4,511.96	2,389.77	2,345.65	44.12	54.169		
5,300.00	4,529.24	4,687.03	4,569.60	51.67	23.66	24.68	1,239.16	4,509.05	2,326.27	2,281.17	45.10	51.578		
5,400.00	4,607.36	4,741.20	4,623.70	52.99	23.82	25.11	1,239.67	4,506.47	2,263.72	2,217.61	46.11	49.091		
5,500.00	4,685.47	4,799.83	4,682.29	54.32	23.99	25.62	1,239.54	4,504.20	2,201.96	2,154.81	47.16	46.696		
5,600.00	4,763.59	4,861.30	4,743.73	55.64	24.15	26.19	1,239.17	4,502.29	2,140.97	2,092.74	48.23	44.389		
5,700.00	4,841.71	4,918.16	4,800.57	56.97	24.30	26.72	1,239.17	4,500.90	2,080.76	2,031.41	49.34	42.168		
5,800.00	4,919.83	4,968.32	4,850.73	58.30	24.42	27.22	1,239.16	4,500.29	2,021.72	1,971.22	50.50	40.035		
5,900.00	4,997.94	5,035.75	4,918.16	59.62	24.58	27.91	1,239.06	4,500.26	1,963.82	1,912.13	51.69	37.995		
6,000.00	5,076.06	5,119.71	5,002.11	60.95	24.78	28.81	1,238.94	4,500.16	1,906.19	1,853.28	52.91	36.024		
6,100.00	5,154.18	5,206.56	5,088.97	62.28	25.00	29.81	1,238.88	4,499.65	1,848.51	1,794.31	54.20	34.107		
6,200.00	5,232.29	5,287.82	5,170.22	63.61	25.21	30.80	1,238.76	4,498.89	1,790.91	1,735.36	55.55	32.241		
6,300.00	5,310.41	5,363.19	5,245.59	64.93	25.41	31.77	1,238.71	4,498.19	1,733.69	1,676.72	56.97	30.434		
6,400.00	5,388.53	5,443.19	5,325.59	66.26	25.62	32.86	1,238.71	4,497.43	1,676.89	1,618.44	58.45	28.688		
6,500.00	5,466.64	5,524.17	5,406.55	67.59	25.84	34.04	1,238.61	4,496.52	1,620.42	1,560.40	60.02	27.000		
6,600.00	5,544.76	5,607.43	5,489.80	68.92	26.06	35.34	1,238.19	4,495.34	1,564.26	1,502.59	61.67	25.365		
6,700.00	5,622.88	5,690.45	5,572.81	70.25	26.29	36.75	1,237.47	4,493.78	1,508.36	1,444.94	63.43	23.781		
6,800.00	5,701.00	5,770.12	5,652.46	71.58	26.50	38.20	1,236.77	4,492.01	1,452.88	1,387.59	65.30	22.251		
6,900.00	5,779.11	5,846.52	5,728.84	72.91	26.72	39.68	1,236.08	4,490.27	1,398.12	1,330.83	67.29	20.778		
7,000.00	5,857.23	5,923.24	5,805.53	74.23	26.93	41.27	1,235.26	4,488.51	1,344.20	1,274.79	69.42	19.365		
7,100.00	5,935.35	5,993.89	5,876.16	75.56	27.12	42.83	1,234.41	4,487.02	1,291.41	1,219.72	71.69	18.014		
7,200.00	6,013.46	6,069.02	5,951.27	76.89	27.33	44.60	1,233.50	4,485.71	1,239.98	1,165.86	74.11	16.731		
7,300.00	6,091.58	6,146.57	6,028.80	78.22	27.54	46.54	1,232.65	4,484.35	1,189.74	1,113.05	76.70	15.512		
7,400.00	6,169.70	6,224.53	6,106.75	79.55	27.76	48.61	1,232.14	4,483.03	1,140.84	1,061.40	79.44	14.360		
7,500.00	6,247.81	6,304.32	6,186.53	80.88	27.99	50.85	1,232.00	4,481.67	1,093.34	1,010.98	82.36	13.275		
7,600.00	6,325.93	6,391.64	6,273.83	82.21	28.25	53.45	1,232.76	4,479.92	1,047.07	961.63	85.44	12.255		
7,700.00	6,404.05	6,464.11	6,346.28	83.54	28.47	55.73	1,233.84	4,478.44	1,002.47	913.76	88.70	11.301		
7,800.00	6,482.17	6,536.42	6,418.57	84.87	28.69	58.15	1,234.70	4,477.26	960.39	868.24	92.15	10.422		
7,900.00	6,560.28	6,608.74	6,490.88	86.20	28.90	60.71	1,235.31	4,476.41	921.15	825.38	95.77	9.618		
8,000.00	6,638.40	6,681.03	6,563.17	87.53	29.11	63.43	1,235.48	4,475.81	885.16	785.61	99.55	8.892		
8,100.00	6,716.52	6,757.50	6,639.63	88.86	29.33	66.47	1,235.41	4,475.34	852.58	749.15	103.43	8.243		
8,200.00	6,794.63	6,832.09	6,714.23	90.20	29.54	69.58	1,235.21	4,475.02	823.72	716.38	107.33	7.674		
8,300.00	6,872.75	6,908.90	6,791.04	91.53	29.75	72.91	1,234.75	4,474.81	799.03	687.83	111.21	7.185		
8,400.00	6,950.87	6,986.44	6,868.58	92.86	29.96	76.40	1,234.36	4,474.64	778.62	663.69	114.94	6.774		
8,500.00	7,028.98	7,062.96	6,945.09	94.19	30.17	79.94	1,233.88	4,474.58	762.98	644.58	118.40	6.444		
8,600.00	7,107.10	7,142.69	7,024.82	95.52	30.38	83.71	1,233.48	4,474.58	752.21	630.69	121.52	6.190		
8,647.91	7,144.53	7,178.98	7,061.12	96.16	30.48	85.44	1,233.34	4,474.61	748.83	625.99	122.84	6.096		
8,650.00	7,146.16	7,180.57	7,062.70	96.18	30.49	85.26	1,233.33	4,474.62	748.70	625.81	122.89	6.092		
8,700.00	7,185.66	7,218.94	7,101.08	96.84	30.59	80.71	1,233.15	4,474.72	744.38	620.26	124.12	5.997		
8,750.00	7,225.78	7,259.20	7,141.33	97.47	30.70	75.66	1,232.94	4,474.87	737.27	612.09	125.19	5.889		
8,800.00	7,266.21	7,300.79	7,182.92	98.08	30.81	70.32	1,232.75	4,475.00	727.20	601.08	126.12	5.766		
8,850.00	7,306.63	7,342.12	7,224.25	98.64	30.92	64.88	1,232.61	4,475.07	714.06	587.15	126.91	5.627		
8,900.00	7,346.75	7,382.62	7,264.75	99.17	31.03	59.58	1,232.49	4,475.10	697.85	570.29	127.56	5.471		
8,950.00	7,386.25	7,422.46	7,304.59	99.64	31.15	54.67	1,232.37	4,475.09	678.57	550.48	128.09	5.298		
9,000.00	7,424.84	7,461.34	7,343.47	100.06	31.25	50.30	1,232.27	4,475.05	656.25	527.76	128.49	5.107		
9,050.00	7,462.22	7,498.96	7,381.09	100.42	31.36	46.55	1,232.18	4,474.98	630.95	502.17	128.78	4.899		
9,100.00	7,498.11	7,535.04	7,417.17	100.74	31.46	43.46	1,232.10	4,474.89	602.74	473.79	128.95	4.674		
9,150.00	7,532.24	7,568.37	7,450.50	100.99	31.56	40.97	1,231.99	4,474.80	571.78	442.79	128.99	4.433		
9,200.00	7,564.34	7,600.11	7,482.24	101.19	31.65	39.17	1,231.86	4,474.72	538.19	409.27	128.92	4.175		
9,250.00	7,594.17	7,630.03	7,512.16	101.34	31.73	38.07	1,231.73	4,474.66	502.12	373.39	128.73	3.901		
9,300.00	7,621.50	7,657.69	7,539.81	101.45	31.81	37.71	1,231.62	4,474.66	463.74	335.32	128.41	3.611		
9,350.00	7,646.13	7,682.66	7,564.79	101.50	31.88	38.18	1,231.54	4,474.70	423.23	295.27	127.96	3.308		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,704.74	7,586.87	101.51	31.94	39.69	1,231.48	4,474.79	380.83	253.49	127.34	2.991		
9,450.00	7,686.55	7,723.45	7,605.57	101.48	31.99	42.50	1,231.42	4,474.88	336.80	210.29	126.51	2.662		
9,500.00	7,702.04	7,739.04	7,621.17	101.42	32.04	47.24	1,231.37	4,474.97	291.43	166.02	125.41	2.324		
9,550.00	7,714.20	7,751.37	7,633.50	101.33	32.07	54.67	1,231.33	4,475.05	245.03	121.14	123.89	1.978		
9,600.00	7,722.96	7,760.33	7,642.46	101.20	32.09	65.40	1,231.29	4,475.12	197.97	76.30	121.67	1.627		
9,650.00	7,728.24	7,765.83	7,647.96	101.06	32.11	78.46	1,231.27	4,475.16	150.78	32.75	118.03	1.277	Level 3	
9,699.97	7,730.00	7,767.82	7,649.94	100.90	32.11	89.92	1,231.26	4,475.17	104.47	-6.32	110.80	0.943	Level 1	
9,794.61	7,730.00	7,768.22	7,650.34	100.58	32.12	90.44	1,231.26	4,475.18	44.35	-32.09	76.44	0.580	Level 1, CC	
9,800.00	7,730.00	7,768.24	7,650.37	100.56	32.12	90.47	1,231.26	4,475.18	44.68	-37.93	82.61	0.541	Level 1, ES, SF	
9,900.00	7,730.00	7,768.67	7,650.79	100.24	32.12	91.02	1,231.26	4,475.18	114.38	-14.83	129.21	0.885	Level 1	
10,000.00	7,730.00	7,769.10	7,651.22	99.93	32.12	91.58	1,231.25	4,475.18	210.16	80.03	130.14	1.615		
10,100.00	7,730.00	7,769.53	7,651.65	99.64	32.12	92.14	1,231.25	4,475.19	308.63	178.90	129.73	2.379		
10,200.00	7,730.00	7,769.96	7,652.09	99.36	32.12	92.70	1,231.25	4,475.19	407.85	278.48	129.37	3.153		
10,300.00	7,730.00	7,770.40	7,652.52	99.09	32.12	93.26	1,231.25	4,475.19	507.37	378.28	129.09	3.930		
10,400.00	7,730.00	7,770.84	7,652.96	98.84	32.12	93.82	1,231.25	4,475.20	607.05	478.17	128.88	4.710		
10,500.00	7,730.00	7,771.28	7,653.40	98.61	32.12	94.39	1,231.24	4,475.20	706.82	578.10	128.72	5.491		
10,600.00	7,730.00	7,771.72	7,653.84	98.39	32.13	94.96	1,231.24	4,475.20	806.65	678.05	128.60	6.273		
10,700.00	7,730.00	7,772.16	7,654.29	98.18	32.13	95.53	1,231.24	4,475.21	906.51	778.02	128.49	7.055		
10,800.00	7,730.00	7,772.61	7,654.74	97.99	32.13	96.10	1,231.24	4,475.21	1,006.40	877.99	128.41	7.837		
10,900.00	7,730.00	7,773.06	7,655.18	97.81	32.13	96.67	1,231.24	4,475.21	1,106.31	977.97	128.34	8.620		
11,000.00	7,730.00	7,773.51	7,655.64	97.64	32.13	97.25	1,231.23	4,475.22	1,206.24	1,077.96	128.28	9.403		
11,100.00	7,730.00	7,773.97	7,656.09	97.50	32.13	97.83	1,231.23	4,475.22	1,306.17	1,177.94	128.23	10.186		
11,200.00	7,730.00	7,774.42	7,656.55	97.36	32.13	98.41	1,231.23	4,475.22	1,406.12	1,277.93	128.19	10.969		
11,300.00	7,730.00	7,774.88	7,657.01	97.24	32.13	98.99	1,231.23	4,475.23	1,506.07	1,377.92	128.15	11.752		
11,400.00	7,730.00	7,775.34	7,657.47	97.14	32.14	99.57	1,231.23	4,475.23	1,606.03	1,477.91	128.12	12.536		
11,500.00	7,730.00	7,775.81	7,657.93	97.06	32.14	100.15	1,231.22	4,475.24	1,705.99	1,577.90	128.09	13.319		
11,600.00	7,730.00	7,776.27	7,658.40	96.98	32.14	100.74	1,231.22	4,475.24	1,805.96	1,677.90	128.06	14.102		
11,700.00	7,730.00	7,776.74	7,658.87	96.93	32.14	101.32	1,231.22	4,475.24	1,905.93	1,777.89	128.04	14.885		
11,800.00	7,730.00	7,777.21	7,659.34	96.90	32.14	101.91	1,231.22	4,475.25	2,005.91	1,877.88	128.02	15.668		
11,900.00	7,730.00	7,777.69	7,659.81	96.88	32.14	102.49	1,231.22	4,475.25	2,105.88	1,977.87	128.01	16.451		
12,000.00	7,730.00	7,778.16	7,660.29	96.88	32.14	103.08	1,231.21	4,475.25	2,205.86	2,077.87	127.99	17.234		
12,100.00	7,730.00	7,778.64	7,660.76	96.90	32.14	103.67	1,231.21	4,475.26	2,305.84	2,177.86	127.98	18.018		
12,200.00	7,730.00	7,779.12	7,661.25	96.94	32.15	104.26	1,231.21	4,475.26	2,405.82	2,277.85	127.97	18.800		
12,300.00	7,730.00	7,779.60	7,661.73	97.00	32.15	104.84	1,231.21	4,475.27	2,505.80	2,377.85	127.96	19.583		
12,400.00	7,730.00	7,780.09	7,662.22	97.08	32.15	105.43	1,231.21	4,475.27	2,605.79	2,477.84	127.95	20.366		
12,500.00	7,730.00	7,780.58	7,662.70	97.18	32.15	106.02	1,231.20	4,475.27	2,705.77	2,577.83	127.94	21.149		
12,600.00	7,730.00	7,781.07	7,663.20	97.31	32.15	106.61	1,231.20	4,475.28	2,805.76	2,677.82	127.93	21.931		
12,700.00	7,730.00	7,781.57	7,663.69	97.46	32.15	107.20	1,231.20	4,475.28	2,905.74	2,777.82	127.93	22.714		
12,800.00	7,730.00	7,782.06	7,664.19	97.64	32.15	107.78	1,231.20	4,475.29	3,005.73	2,877.81	127.92	23.496		
12,900.00	7,730.00	7,782.56	7,664.69	97.85	32.15	108.37	1,231.19	4,475.29	3,105.72	2,977.80	127.92	24.279		
13,000.00	7,730.00	7,783.06	7,665.19	98.09	32.16	108.95	1,231.19	4,475.29	3,205.71	3,077.79	127.92	25.061		
13,100.00	7,730.00	7,783.57	7,665.69	98.35	32.16	109.54	1,231.19	4,475.30	3,305.70	3,177.78	127.92	25.843		
13,200.00	7,730.00	7,784.08	7,666.20	98.65	32.16	110.12	1,231.19	4,475.30	3,405.69	3,277.78	127.91	26.625		
13,300.00	7,730.00	7,784.59	7,666.71	98.98	32.16	110.71	1,231.18	4,475.31	3,505.68	3,377.77	127.91	27.407		
13,400.00	7,730.00	7,785.10	7,667.23	99.34	32.16	111.29	1,231.18	4,475.31	3,605.67	3,477.76	127.91	28.188		
13,500.00	7,730.00	7,785.62	7,667.74	99.74	32.16	111.87	1,231.18	4,475.32	3,705.66	3,577.75	127.91	28.970		
13,600.00	7,730.00	7,786.14	7,668.26	100.17	32.16	112.45	1,231.18	4,475.32	3,805.65	3,677.74	127.92	29.751		
13,700.00	7,730.00	7,786.66	7,668.78	100.65	32.17	113.03	1,231.17	4,475.33	3,905.65	3,777.73	127.92	30.532		
13,800.00	7,730.00	7,787.18	7,669.31	101.16	32.17	113.60	1,231.17	4,475.33	4,005.64	3,877.72	127.92	31.313		
13,900.00	7,730.00	7,787.71	7,669.84	101.71	32.17	114.18	1,231.17	4,475.33	4,105.63	3,977.71	127.92	32.094		
14,000.00	7,730.00	7,788.24	7,670.37	102.30	32.17	114.75	1,231.17	4,475.34	4,205.63	4,077.70	127.93	32.875		
14,100.00	7,730.00	7,788.78	7,670.90	102.93	32.17	115.32	1,231.16	4,475.34	4,305.62	4,177.69	127.93	33.655		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,789.31	7,671.44	103.60	32.17	115.89	1,231.16	4,475.35	4,405.61	4,277.67	127.94	34.436		
14,300.00	7,730.00	7,789.85	7,671.98	104.32	32.17	116.45	1,231.16	4,475.35	4,505.61	4,377.66	127.94	35.216		
14,400.00	7,730.00	7,790.40	7,672.52	105.07	32.18	117.02	1,231.16	4,475.36	4,605.60	4,477.65	127.95	35.996		
14,500.00	7,730.00	7,790.94	7,673.07	105.86	32.18	117.58	1,231.15	4,475.36	4,705.59	4,577.64	127.95	36.775		
14,600.00	7,730.00	7,791.49	7,673.62	106.70	32.18	118.14	1,231.15	4,475.37	4,805.59	4,677.63	127.96	37.555		
14,700.00	7,730.00	7,792.04	7,674.17	107.57	32.18	118.70	1,231.15	4,475.37	4,905.58	4,777.62	127.97	38.334		
14,800.00	7,730.00	7,792.60	7,674.72	108.48	32.18	119.25	1,231.15	4,475.38	5,005.58	4,877.60	127.98	39.113		
14,900.00	7,730.00	7,793.16	7,675.28	109.43	32.18	119.80	1,231.14	4,475.38	5,105.57	4,977.59	127.98	39.892		
15,000.00	7,730.00	7,793.72	7,675.84	110.42	32.19	120.35	1,231.14	4,475.39	5,205.57	5,077.58	127.99	40.671		
15,100.00	7,730.00	7,794.29	7,676.41	111.43	32.19	120.90	1,231.14	4,475.39	5,305.56	5,177.56	128.00	41.449		
15,200.00	7,730.00	7,794.85	7,676.98	112.49	32.19	121.44	1,231.13	4,475.40	5,405.56	5,277.55	128.01	42.227		
15,300.00	7,730.00	7,795.43	7,677.55	113.57	32.19	121.98	1,231.13	4,475.40	5,505.55	5,377.53	128.02	43.005		
15,400.00	7,730.00	7,796.00	7,678.12	114.68	32.19	122.52	1,231.13	4,475.41	5,605.55	5,477.52	128.03	43.783		
15,500.00	7,730.00	7,796.58	7,678.70	115.82	32.19	123.05	1,231.13	4,475.41	5,705.55	5,577.51	128.04	44.560		
15,600.00	7,730.00	7,797.16	7,679.29	116.99	32.19	123.59	1,231.12	4,475.42	5,805.54	5,677.49	128.05	45.338		
15,700.00	7,730.00	7,797.75	7,679.87	118.19	32.20	124.11	1,231.12	4,475.42	5,905.54	5,777.48	128.06	46.115		
15,800.00	7,730.00	7,798.34	7,680.46	119.41	32.20	124.64	1,231.12	4,475.43	6,005.53	5,877.46	128.07	46.891		
15,900.00	7,730.00	7,798.93	7,681.05	120.65	32.20	125.16	1,231.11	4,475.44	6,105.53	5,977.44	128.09	47.668		
16,000.00	7,730.00	7,799.52	7,681.65	121.91	32.20	125.68	1,231.11	4,475.44	6,205.53	6,077.43	128.10	48.444		
16,100.00	7,730.00	7,800.12	7,682.25	123.20	32.20	126.19	1,231.11	4,475.45	6,305.52	6,177.41	128.11	49.219		
16,200.00	7,730.00	7,800.73	7,682.85	124.50	32.20	126.70	1,231.11	4,475.45	6,405.52	6,277.39	128.12	49.995		
16,300.00	7,730.00	7,801.33	7,683.46	125.82	32.21	127.21	1,231.10	4,475.46	6,505.51	6,377.38	128.14	50.770		
16,400.00	7,730.00	7,801.94	7,684.07	127.16	32.21	127.71	1,231.10	4,475.46	6,605.51	6,477.36	128.15	51.545		
16,500.00	7,730.00	7,802.56	7,684.68	128.52	32.21	128.21	1,231.10	4,475.47	6,705.51	6,577.34	128.16	52.320		
16,600.00	7,730.00	7,803.17	7,685.30	129.89	32.21	128.71	1,231.09	4,475.47	6,805.50	6,677.33	128.18	53.094		
16,700.00	7,730.00	7,803.80	7,685.92	131.27	32.21	129.20	1,231.09	4,475.48	6,905.50	6,777.31	128.19	53.868		
16,800.00	7,730.00	7,804.42	7,686.54	132.67	32.21	129.69	1,231.09	4,475.49	7,005.50	6,877.29	128.21	54.642		
16,900.00	7,730.00	7,805.05	7,687.17	134.09	32.22	130.17	1,231.08	4,475.49	7,105.49	6,977.27	128.22	55.415		
17,000.00	7,730.00	7,805.68	7,687.81	135.51	32.22	130.66	1,231.08	4,475.50	7,205.49	7,077.25	128.24	56.188		
17,100.00	7,730.00	7,806.32	7,688.44	136.95	32.22	131.13	1,231.08	4,475.50	7,305.49	7,177.23	128.25	56.961		
17,200.00	7,730.00	7,806.96	7,689.08	138.40	32.22	131.61	1,231.07	4,475.51	7,405.48	7,277.21	128.27	57.733		
17,300.00	7,730.00	7,807.60	7,689.73	139.85	32.22	132.08	1,231.07	4,475.52	7,505.48	7,377.19	128.29	58.505		
17,400.00	7,730.00	7,808.25	7,690.38	141.32	32.22	132.54	1,231.07	4,475.52	7,605.48	7,477.17	128.30	59.277		
17,500.00	7,730.00	7,808.91	7,691.03	142.80	32.23	133.00	1,231.06	4,475.53	7,705.48	7,577.15	128.32	60.048		
17,600.00	7,730.00	7,809.56	7,691.69	144.28	32.23	133.46	1,231.06	4,475.54	7,805.47	7,677.13	128.34	60.819		
17,700.00	7,730.00	7,810.22	7,692.35	145.78	32.23	133.92	1,231.06	4,475.54	7,905.47	7,777.11	128.36	61.590		
17,800.00	7,730.00	7,810.89	7,693.01	147.28	32.23	134.37	1,231.05	4,475.55	8,005.47	7,877.09	128.38	62.360		
17,900.00	7,730.00	7,811.56	7,693.68	148.79	32.23	134.81	1,231.05	4,475.56	8,105.46	7,977.07	128.39	63.130		
18,000.00	7,730.00	7,812.23	7,694.35	150.31	32.24	135.26	1,231.05	4,475.56	8,205.46	8,077.05	128.41	63.899		
18,100.00	7,730.00	7,812.91	7,695.03	151.83	32.24	135.70	1,231.04	4,475.57	8,305.46	8,177.03	128.43	64.668		
18,200.00	7,730.00	7,813.59	7,695.71	153.37	32.24	136.13	1,231.04	4,475.58	8,405.45	8,277.00	128.45	65.437		
18,300.00	7,730.00	7,814.28	7,696.40	154.90	32.24	136.56	1,231.03	4,475.58	8,505.45	8,376.98	128.47	66.205		
18,400.00	7,730.00	7,814.97	7,697.09	156.45	32.24	136.99	1,231.03	4,475.59	8,605.45	8,476.96	128.49	66.973		
18,500.00	7,730.00	7,815.66	7,697.79	158.00	32.25	137.41	1,231.03	4,475.60	8,705.45	8,576.94	128.51	67.741		
18,600.00	7,730.00	7,816.36	7,698.49	159.55	32.25	137.83	1,231.02	4,475.60	8,805.44	8,676.91	128.53	68.508		
18,700.00	7,730.00	7,817.07	7,699.19	161.11	32.25	138.25	1,231.02	4,475.61	8,905.44	8,776.89	128.55	69.275		
18,800.00	7,730.00	7,814.49	7,696.61	162.68	32.24	136.68	1,231.04	4,475.57	9,005.44	8,876.87	128.57	70.043		
18,900.00	7,730.00	7,815.04	7,697.16	164.25	32.24	137.03	1,231.03	4,475.58	9,105.44	8,976.85	128.59	70.809		
19,000.00	7,730.00	7,815.60	7,697.72	165.83	32.25	137.36	1,231.03	4,475.58	9,205.44	9,076.82	128.61	71.575		
19,100.00	7,730.00	7,816.15	7,698.28	167.41	32.25	137.70	1,231.03	4,475.59	9,305.43	9,176.80	128.63	72.340		
19,200.00	7,730.00	7,816.71	7,698.83	168.99	32.25	138.03	1,231.02	4,475.59	9,405.43	9,276.77	128.66	73.105		
19,300.00	7,730.00	7,817.27	7,699.39	170.58	32.25	138.36	1,231.02	4,475.60	9,505.43	9,376.75	128.68	73.869		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		109-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,817.83	7,699.95	172.17	32.25	138.68	1,231.02	4,475.60	9,605.43	9,476.72	128.70	74.633	
19,430.54	7,730.00	7,818.00	7,700.12	172.66	32.25	138.78	1,231.02	4,475.60	9,635.96	9,507.25	128.71	74.866	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	82.03	751.01	5,363.01	5,415.93					
100.00	100.00	38.04	38.04	0.13	0.06	82.03	751.00	5,362.95	5,415.30	5,415.11	0.19	N/A		
200.00	200.00	157.72	157.72	0.49	0.40	82.03	750.83	5,362.21	5,414.65	5,413.76	0.89	6,058.761		
300.00	300.00	248.85	248.84	0.85	0.73	82.03	750.81	5,361.63	5,414.02	5,412.45	1.58	3,430.223		
400.00	400.00	355.27	355.26	1.21	1.11	82.03	750.92	5,361.00	5,413.45	5,411.13	2.32	2,335.761		
500.00	500.00	416.69	416.68	1.57	1.32	82.03	750.32	5,360.91	5,413.17	5,410.28	2.89	1,873.470		
530.96	530.96	442.00	441.98	1.68	1.41	16.69	749.70	5,361.05	5,413.07	5,409.98	3.09	1,753.524		
600.00	599.98	481.82	481.78	1.92	1.55	16.71	748.28	5,361.46	5,411.89	5,408.42	3.47	1,560.145		
700.00	699.84	534.00	533.87	2.28	1.73	16.77	745.57	5,362.34	5,407.92	5,403.92	4.00	1,351.372		
800.00	799.45	591.91	591.61	2.64	1.94	16.87	741.43	5,363.94	5,401.43	5,396.87	4.56	1,183.386		
900.00	898.70	650.14	649.54	3.02	2.15	17.01	736.06	5,366.36	5,392.58	5,387.44	5.14	1,049.992		
1,000.00	997.47	716.00	714.86	3.41	2.39	17.20	728.25	5,369.56	5,380.91	5,375.17	5.75	936.513		
1,100.00	1,095.62	764.29	762.57	3.84	2.59	17.39	721.42	5,372.41	5,366.77	5,360.46	6.31	851.134		
1,200.00	1,193.06	809.00	806.60	4.29	2.77	17.60	714.37	5,375.70	5,350.45	5,343.59	6.86	780.156		
1,300.00	1,289.64	853.22	850.02	4.78	2.96	17.84	706.86	5,379.43	5,331.88	5,324.46	7.43	717.884		
1,400.00	1,385.27	902.00	897.80	5.32	3.17	18.12	698.14	5,383.98	5,310.97	5,302.94	8.03	661.797		
1,500.00	1,479.82	960.38	954.83	5.90	3.43	18.46	687.19	5,389.91	5,287.67	5,278.98	8.69	608.617		
1,600.00	1,573.17	1,017.96	1,010.95	6.53	3.70	18.84	675.89	5,396.20	5,261.95	5,252.58	9.37	561.865		
1,700.00	1,665.21	1,077.00	1,068.21	7.23	3.99	19.26	663.29	5,403.10	5,233.79	5,223.72	10.07	519.662		
1,800.00	1,755.84	1,188.23	1,175.78	7.98	4.56	19.96	638.30	5,416.38	5,202.86	5,191.80	11.07	470.093		
1,900.00	1,844.94	1,276.26	1,261.29	8.80	5.01	20.59	619.92	5,426.32	5,168.59	5,156.63	11.97	431.970		
2,000.00	1,932.39	1,339.00	1,322.22	9.68	5.33	21.16	606.97	5,433.81	5,132.03	5,119.28	12.75	402.416		
2,100.00	2,018.11	1,397.53	1,378.93	10.63	5.65	21.76	594.47	5,441.10	5,093.11	5,079.56	13.55	375.905		
2,200.00	2,101.97	1,469.10	1,448.05	11.65	6.04	22.49	578.27	5,450.14	5,051.66	5,037.21	14.44	349.779		
2,300.00	2,183.88	1,538.36	1,514.69	12.74	6.42	23.27	561.66	5,459.13	5,007.83	4,992.47	15.36	326.092		
2,400.00	2,263.74	1,644.54	1,616.83	13.90	7.02	24.35	536.01	5,472.70	4,961.35	4,944.84	16.51	300.579		
2,431.61	2,288.54	1,682.93	1,653.86	14.29	7.24	24.74	527.07	5,477.43	4,946.03	4,929.13	16.90	292.640		
2,500.00	2,341.97	1,736.55	1,705.71	15.13	7.54	25.09	514.98	5,483.88	4,912.58	4,894.98	17.60	279.198		
2,600.00	2,420.08	1,790.86	1,758.24	16.37	7.84	25.44	502.95	5,490.58	4,864.22	4,845.72	18.50	262.985		
2,700.00	2,498.20	1,872.44	1,837.16	17.63	8.29	25.97	485.02	5,500.85	4,816.42	4,796.86	19.56	246.185		
2,800.00	2,576.32	1,990.81	1,951.87	18.89	8.94	26.74	459.61	5,515.17	4,768.64	4,747.79	20.84	228.789		
2,900.00	2,654.43	2,052.86	2,012.09	20.17	9.27	27.15	446.55	5,522.46	4,720.94	4,699.09	21.85	216.100		
3,000.00	2,732.55	2,135.13	2,091.73	21.45	9.73	27.72	428.41	5,532.31	4,673.81	4,650.83	22.98	203.346		
3,100.00	2,810.67	2,239.35	2,192.37	22.74	10.32	28.46	404.09	5,544.24	4,626.72	4,602.44	24.28	190.580		
3,200.00	2,888.78	2,339.64	2,289.22	24.03	10.89	29.19	380.48	5,555.15	4,579.65	4,554.08	25.57	179.096		
3,300.00	2,966.90	2,464.70	2,410.74	25.33	11.56	30.09	353.84	5,567.94	4,532.47	4,505.48	26.99	167.913		
3,400.00	3,045.02	2,536.38	2,480.55	26.63	11.94	30.61	339.18	5,574.93	4,485.31	4,457.16	28.15	159.353		
3,500.00	3,123.13	2,581.39	2,524.30	27.94	12.19	30.94	329.63	5,579.42	4,438.83	4,409.64	29.19	152.077		
3,600.00	3,201.25	2,617.76	2,559.60	29.24	12.39	31.21	321.78	5,583.37	4,393.48	4,363.28	30.20	145.465		
3,700.00	3,279.37	3,700.00	2,641.87	30.55	18.37	31.86	303.23	5,592.95	4,348.99	4,312.34	36.65	118.658		
3,800.00	3,357.49	2,824.35	2,759.94	31.86	13.52	32.81	276.53	5,605.61	4,304.24	4,271.21	33.03	130.306		
3,900.00	3,435.60	2,888.99	2,822.58	33.18	13.88	33.33	261.96	5,612.12	4,259.89	4,225.62	34.28	124.284		
4,000.00	3,513.72	2,959.62	2,890.88	34.49	14.28	33.91	245.48	5,619.36	4,216.31	4,180.73	35.58	118.508		
4,100.00	3,591.84	3,022.00	2,951.27	35.81	14.63	34.43	231.22	5,625.74	4,173.26	4,136.41	36.86	113.235		
4,200.00	3,669.95	3,078.24	3,005.71	37.12	14.95	34.90	218.39	5,631.70	4,131.12	4,093.00	38.12	108.381		
4,300.00	3,748.07	3,127.31	3,053.09	38.44	15.22	35.32	206.94	5,637.30	4,090.19	4,050.83	39.36	103.927		
4,400.00	3,826.19	3,200.22	3,123.54	39.76	15.64	35.94	190.22	5,645.89	4,050.13	4,009.38	40.76	99.368		
4,500.00	3,904.30	3,325.65	3,245.17	41.08	16.33	37.01	163.21	5,660.21	4,010.23	3,967.75	42.48	94.404		
4,600.00	3,982.42	3,407.92	3,324.93	42.40	16.79	37.73	145.02	5,668.97	3,970.49	3,926.51	43.98	90.290		
4,700.00	4,060.54	3,473.86	3,388.75	43.72	17.16	38.32	129.95	5,675.95	3,931.49	3,886.08	45.41	86.580		
4,800.00	4,138.66	3,527.95	3,441.05	45.05	17.47	38.81	117.50	5,681.82	3,893.44	3,846.65	46.79	83.211		
4,900.00	4,216.77	3,585.00	3,496.16	46.37	17.79	39.34	104.31	5,688.42	3,856.64	3,808.43	48.21	79.998		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,701.15	3,608.80	47.69	18.43	40.39	79.44	5,701.96	3,820.38	3,770.38	50.00	76.409		
5,100.00	4,373.01	3,792.88	3,698.25	49.02	18.92	41.21	62.05	5,712.46	3,784.14	3,732.51	51.63	73.290		
5,200.00	4,451.12	3,866.26	3,769.80	50.34	19.30	41.87	48.07	5,720.79	3,748.56	3,695.38	53.18	70.488		
5,300.00	4,529.24	3,932.13	3,833.97	51.67	19.65	42.48	35.21	5,728.32	3,713.88	3,659.17	54.71	67.881		
5,400.00	4,607.36	3,990.62	3,890.91	52.99	19.96	43.03	23.75	5,735.20	3,680.25	3,624.03	56.22	65.464		
5,500.00	4,685.47	4,043.88	3,942.71	54.32	20.25	43.52	13.29	5,741.83	3,647.89	3,590.18	57.71	63.212		
5,600.00	4,763.59	4,134.00	4,030.32	55.64	20.74	44.38	-4.49	5,753.24	3,616.53	3,557.08	59.45	60.828		
5,700.00	4,841.71	4,205.08	4,099.45	56.97	21.12	45.06	-18.45	5,762.11	3,585.82	3,524.72	61.10	58.689		
5,800.00	4,919.83	4,386.53	4,276.66	58.30	22.05	46.79	-50.57	5,784.03	3,555.32	3,491.91	63.42	56.063		
5,900.00	4,997.94	4,468.71	4,357.33	59.62	22.46	47.57	-63.54	5,792.85	3,523.84	3,458.70	65.14	54.093		
6,000.00	5,076.06	4,524.26	4,411.66	60.95	22.74	48.13	-73.61	5,798.60	3,493.61	3,426.86	66.75	52.339		
6,100.00	5,154.18	4,694.55	4,578.27	62.28	23.60	49.87	-105.07	5,814.35	3,463.73	3,394.63	69.10	50.123		
6,200.00	5,232.29	4,855.75	4,736.93	63.61	24.35	51.54	-131.33	5,825.20	3,431.73	3,360.37	71.36	48.091		
6,300.00	5,310.41	4,963.52	4,843.48	64.93	24.82	52.63	-145.44	5,832.99	3,400.46	3,327.18	73.28	46.402		
6,400.00	5,388.53	5,403.03	5,281.17	66.26	26.36	57.09	-179.27	5,844.40	3,363.18	3,286.99	76.18	44.145		
6,500.00	5,466.64	5,504.54	5,382.59	67.59	26.64	58.15	-183.24	5,843.22	3,324.57	3,246.60	77.97	42.640		
6,600.00	5,544.76	5,608.81	5,486.86	68.92	26.89	59.20	-183.47	5,842.51	3,285.66	3,205.95	79.71	41.221		
6,700.00	5,622.88	5,700.23	5,578.27	70.25	27.10	60.13	-182.98	5,841.96	3,247.34	3,165.90	81.44	39.873		
6,800.00	5,701.00	5,787.58	5,665.61	71.58	27.30	61.04	-182.31	5,841.00	3,209.36	3,126.16	83.20	38.573		
6,900.00	5,779.11	5,862.44	5,740.46	72.91	27.47	61.84	-181.74	5,840.15	3,172.15	3,087.17	84.98	37.327		
7,000.00	5,857.23	5,934.29	5,812.32	74.23	27.64	62.61	-181.49	5,839.29	3,135.90	3,049.11	86.79	36.130		
7,100.00	5,935.35	6,013.66	5,891.68	75.56	27.83	63.49	-181.29	5,838.35	3,100.55	3,011.92	88.64	34.981		
7,200.00	6,013.46	6,111.83	5,989.83	76.89	28.06	64.59	-180.85	5,836.89	3,065.83	2,975.32	90.50	33.875		
7,300.00	6,091.58	6,191.34	6,069.32	78.22	28.25	65.49	-180.25	5,835.50	3,031.72	2,939.34	92.39	32.816		
7,400.00	6,169.70	6,272.85	6,150.82	79.55	28.44	66.43	-179.42	5,834.13	2,998.49	2,904.21	94.29	31.802		
7,500.00	6,247.81	6,348.73	6,226.68	80.88	28.62	67.31	-178.56	5,832.83	2,966.18	2,869.98	96.20	30.832		
7,600.00	6,325.93	6,411.61	6,289.56	82.21	28.77	68.05	-177.74	5,831.98	2,935.03	2,836.90	98.13	29.909		
7,700.00	6,404.05	6,459.06	6,337.00	83.54	28.89	68.61	-177.29	5,831.75	2,905.59	2,805.53	100.07	29.037		
7,800.00	6,482.17	6,517.91	6,395.85	84.87	29.04	69.32	-177.03	5,831.99	2,877.97	2,775.96	102.02	28.211		
7,900.00	6,560.28	6,593.12	6,471.06	86.20	29.25	70.23	-177.05	5,832.26	2,851.67	2,747.67	104.00	27.420		
8,000.00	6,638.40	6,675.52	6,553.46	87.53	29.48	71.24	-177.27	5,832.33	2,826.47	2,720.46	106.01	26.662		
8,100.00	6,716.52	6,769.93	6,647.87	88.86	29.74	72.42	-177.50	5,831.97	2,802.15	2,694.11	108.04	25.936		
8,200.00	6,794.63	6,840.32	6,718.26	90.20	29.93	73.32	-177.59	5,831.64	2,778.92	2,668.88	110.04	25.253		
8,300.00	6,872.75	6,908.66	6,786.60	91.53	30.12	74.19	-177.69	5,831.57	2,757.14	2,645.10	112.04	24.608		
8,400.00	6,950.87	6,979.29	6,857.23	92.86	30.32	75.09	-177.97	5,831.69	2,736.91	2,622.86	114.05	23.998		
8,500.00	7,028.98	7,058.63	6,936.57	94.19	30.55	76.12	-178.36	5,831.84	2,718.02	2,601.96	116.06	23.419		
8,600.00	7,107.10	7,142.68	7,020.62	95.52	30.80	77.23	-178.77	5,831.82	2,700.33	2,582.26	118.07	22.870		
8,647.91	7,144.53	7,177.03	7,054.96	96.16	30.90	77.68	-178.95	5,831.76	2,692.32	2,573.29	119.02	22.620		
8,650.00	7,146.16	7,178.52	7,056.46	96.18	30.90	77.43	-178.96	5,831.76	2,691.97	2,572.90	119.07	22.609		
8,700.00	7,185.66	7,214.76	7,092.70	96.84	31.01	71.18	-179.18	5,831.74	2,682.02	2,561.99	120.03	22.345		
8,750.00	7,225.78	7,254.39	7,132.32	97.47	31.12	64.33	-179.45	5,831.73	2,668.82	2,547.88	120.94	22.068		
8,800.00	7,266.21	7,298.08	7,176.01	98.08	31.25	57.04	-179.74	5,831.68	2,652.31	2,530.52	121.79	21.778		
8,850.00	7,306.63	7,341.69	7,219.63	98.64	31.38	49.50	-180.01	5,831.56	2,632.55	2,509.98	122.57	21.478		
8,900.00	7,346.75	7,378.11	7,256.04	99.17	31.49	41.83	-180.28	5,831.45	2,609.69	2,486.43	123.26	21.172		
8,950.00	7,386.25	7,415.55	7,293.48	99.64	31.60	34.28	-180.59	5,831.32	2,583.84	2,459.97	123.87	20.859		
9,000.00	7,424.84	7,452.18	7,330.10	100.06	31.70	26.89	-180.93	5,831.20	2,555.17	2,430.77	124.40	20.540		
9,050.00	7,462.22	7,487.73	7,365.65	100.42	31.81	19.66	-181.29	5,831.07	2,523.82	2,398.99	124.84	20.217		
9,100.00	7,498.11	7,521.94	7,399.86	100.74	31.91	12.48	-181.68	5,830.95	2,490.01	2,364.83	125.19	19.891		
9,150.00	7,532.24	7,550.30	7,428.22	100.99	32.00	5.18	-182.06	5,830.85	2,454.00	2,328.56	125.43	19.564		
9,200.00	7,564.34	7,577.80	7,455.71	101.19	32.08	-2.38	-182.48	5,830.77	2,416.04	2,290.45	125.59	19.238		
9,250.00	7,594.17	7,603.55	7,481.46	101.34	32.16	-10.40	-182.94	5,830.71	2,376.41	2,250.76	125.65	18.913		
9,300.00	7,621.50	7,634.49	7,512.39	101.45	32.25	-19.14	-183.49	5,830.66	2,335.37	2,209.74	125.63	18.589		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,664.20	7,542.10	101.50	32.34	-28.71	-183.92	5,830.65	2,293.20	2,167.69	125.52	18.270		
9,400.00	7,667.87	7,690.29	7,568.19	101.51	32.42	-38.99	-184.23	5,830.67	2,250.27	2,124.97	125.30	17.959		
9,450.00	7,686.55	7,712.59	7,590.49	101.48	32.49	-49.60	-184.42	5,830.70	2,206.97	2,082.00	124.98	17.659		
9,500.00	7,702.04	7,726.06	7,603.96	101.42	32.53	-59.72	-184.54	5,830.73	2,163.76	2,039.21	124.55	17.372		
9,550.00	7,714.20	7,738.02	7,615.92	101.33	32.57	-69.06	-184.65	5,830.76	2,121.04	1,997.01	124.03	17.101		
9,600.00	7,722.96	7,746.76	7,624.66	101.20	32.60	-77.17	-184.73	5,830.78	2,079.24	1,955.84	123.41	16.849		
9,650.00	7,728.24	7,752.21	7,630.11	101.06	32.61	-83.88	-184.78	5,830.80	2,038.79	1,916.11	122.68	16.618		
9,699.97	7,730.00	7,754.32	7,632.22	100.90	32.62	-89.23	-184.80	5,830.81	2,000.14	1,878.27	121.87	16.412		
9,800.00	7,730.00	7,755.19	7,633.08	100.56	32.62	-89.26	-184.80	5,830.81	1,925.94	1,805.90	120.04	16.044		
9,900.00	7,730.00	7,756.05	7,633.95	100.24	32.62	-89.30	-184.81	5,830.81	1,854.20	1,736.19	118.01	15.712		
10,000.00	7,730.00	7,756.92	7,634.82	99.93	32.63	-89.34	-184.82	5,830.81	1,785.17	1,669.42	115.76	15.422		
10,100.00	7,730.00	7,757.79	7,635.69	99.64	32.63	-89.38	-184.83	5,830.82	1,719.20	1,605.94	113.26	15.179		
10,200.00	7,730.00	7,758.66	7,636.56	99.36	32.63	-89.41	-184.84	5,830.82	1,656.63	1,546.13	110.50	14.992		
10,300.00	7,730.00	7,759.53	7,637.43	99.09	32.64	-89.45	-184.84	5,830.82	1,597.88	1,490.41	107.47	14.868		
10,400.00	7,730.00	7,760.40	7,638.30	98.84	32.64	-89.49	-184.85	5,830.83	1,543.37	1,439.20	104.17	14.816 SF		
10,500.00	7,730.00	7,761.28	7,639.18	98.61	32.64	-89.53	-184.86	5,830.83	1,493.58	1,392.95	100.63	14.843		
10,600.00	7,730.00	7,762.16	7,640.06	98.39	32.64	-89.57	-184.87	5,830.83	1,448.99	1,352.10	96.89	14.956		
10,700.00	7,730.00	7,763.04	7,640.94	98.18	32.65	-89.61	-184.88	5,830.83	1,410.09	1,317.06	93.03	15.157		
10,800.00	7,730.00	7,763.92	7,641.82	97.99	32.65	-89.64	-184.88	5,830.84	1,377.36	1,288.17	89.19	15.443		
10,900.00	7,730.00	7,764.80	7,642.70	97.81	32.65	-89.68	-184.89	5,830.84	1,351.26	1,265.69	85.57	15.791		
11,000.00	7,730.00	7,765.69	7,643.59	97.64	32.65	-89.72	-184.90	5,830.84	1,332.17	1,249.76	82.41	16.165		
11,100.00	7,730.00	7,766.57	7,644.47	97.50	32.66	-89.76	-184.91	5,830.85	1,320.40	1,240.38	80.02	16.501		
11,200.00	7,730.00	7,767.46	7,645.36	97.36	32.66	-89.80	-184.92	5,830.85	1,316.14	1,237.47	78.67	16.730 ES		
11,206.14	7,730.00	7,767.52	7,645.42	97.35	32.66	-89.80	-184.92	5,830.85	1,316.13	1,237.50	78.63	16.739 CC		
11,300.00	7,730.00	7,768.35	7,646.25	97.24	32.66	-89.84	-184.93	5,830.85	1,319.47	1,240.92	78.55	16.798		
11,400.00	7,730.00	7,769.24	7,647.14	97.14	32.67	-89.88	-184.93	5,830.86	1,330.33	1,250.65	79.68	16.696		
11,500.00	7,730.00	7,770.14	7,648.04	97.06	32.67	-89.91	-184.94	5,830.86	1,348.53	1,266.64	81.89	16.467		
11,600.00	7,730.00	7,771.03	7,648.93	96.98	32.67	-89.95	-184.95	5,830.86	1,373.79	1,288.87	84.92	16.178		
11,700.00	7,730.00	7,771.93	7,649.83	96.93	32.67	-89.99	-184.96	5,830.87	1,405.73	1,317.27	88.45	15.892		
11,800.00	7,730.00	7,772.83	7,650.73	96.90	32.68	-90.03	-184.97	5,830.87	1,443.89	1,351.67	92.23	15.656		
11,900.00	7,730.00	7,773.73	7,651.63	96.88	32.68	-90.07	-184.98	5,830.87	1,487.81	1,391.77	96.04	15.491		
12,000.00	7,730.00	7,774.63	7,652.53	96.88	32.68	-90.11	-184.98	5,830.88	1,536.99	1,437.24	99.75	15.408		
12,100.00	7,730.00	7,775.54	7,653.44	96.90	32.68	-90.15	-184.99	5,830.88	1,590.94	1,487.67	103.27	15.406		
12,200.00	7,730.00	7,776.45	7,654.34	96.94	32.69	-90.19	-185.00	5,830.88	1,649.20	1,542.65	106.55	15.478		
12,300.00	7,730.00	7,777.35	7,655.25	97.00	32.69	-90.23	-185.01	5,830.89	1,711.32	1,601.75	109.57	15.619		
12,400.00	7,730.00	7,778.26	7,656.16	97.08	32.69	-90.27	-185.02	5,830.89	1,776.90	1,664.58	112.32	15.820		
12,500.00	7,730.00	7,779.18	7,657.07	97.18	32.70	-90.31	-185.03	5,830.89	1,845.57	1,730.75	114.82	16.074		
12,600.00	7,730.00	7,780.09	7,657.99	97.31	32.70	-90.35	-185.03	5,830.90	1,916.99	1,799.92	117.08	16.374		
12,700.00	7,730.00	7,781.01	7,658.90	97.46	32.70	-90.39	-185.04	5,830.90	1,990.88	1,871.77	119.11	16.714		
12,800.00	7,730.00	7,781.92	7,659.82	97.64	32.70	-90.43	-185.05	5,830.90	2,066.97	1,946.02	120.95	17.090		
12,900.00	7,730.00	7,782.84	7,660.74	97.85	32.71	-90.47	-185.06	5,830.91	2,145.02	2,022.42	122.60	17.497		
13,000.00	7,730.00	7,783.76	7,661.66	98.09	32.71	-90.51	-185.07	5,830.91	2,224.83	2,100.74	124.08	17.930		
13,100.00	7,730.00	7,784.69	7,662.59	98.35	32.71	-90.55	-185.08	5,830.91	2,306.21	2,180.78	125.43	18.387		
13,200.00	7,730.00	7,785.61	7,663.51	98.65	32.72	-90.59	-185.09	5,830.92	2,389.00	2,262.37	126.64	18.865		
13,300.00	7,730.00	7,786.54	7,664.44	98.98	32.72	-90.63	-185.10	5,830.92	2,473.07	2,345.34	127.73	19.362		
13,400.00	7,730.00	7,787.47	7,665.37	99.34	32.72	-90.67	-185.10	5,830.92	2,558.28	2,429.56	128.72	19.874		
13,500.00	7,730.00	7,788.40	7,666.30	99.74	32.72	-90.71	-185.11	5,830.93	2,644.53	2,514.91	129.62	20.402		
13,600.00	7,730.00	7,789.33	7,667.23	100.17	32.73	-90.75	-185.12	5,830.93	2,731.71	2,601.27	130.44	20.942		
13,700.00	7,730.00	7,790.27	7,668.17	100.65	32.73	-90.79	-185.13	5,830.94	2,819.75	2,688.56	131.19	21.494		
13,800.00	7,730.00	7,791.20	7,669.10	101.16	32.73	-90.83	-185.14	5,830.94	2,908.56	2,776.69	131.87	22.056		
13,900.00	7,730.00	7,792.14	7,670.04	101.71	32.74	-90.87	-185.15	5,830.94	2,998.07	2,865.58	132.49	22.628		
14,000.00	7,730.00	7,793.08	7,670.98	102.30	32.74	-90.91	-185.16	5,830.95	3,088.23	2,955.17	133.06	23.208		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 79-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,794.03	7,671.92	102.93	32.74	-90.95	-185.17	5,830.95	3,178.98	3,045.39	133.59	23.796		
14,200.00	7,730.00	7,794.97	7,672.87	103.60	32.74	-91.00	-185.18	5,830.96	3,270.26	3,136.19	134.07	24.391		
14,300.00	7,730.00	7,795.92	7,673.82	104.32	32.75	-91.04	-185.18	5,830.96	3,362.04	3,227.52	134.52	24.993		
14,400.00	7,730.00	7,796.87	7,674.76	105.07	32.75	-91.08	-185.19	5,830.96	3,454.28	3,319.35	134.93	25.600		
14,500.00	7,730.00	7,797.82	7,675.71	105.86	32.75	-91.12	-185.20	5,830.97	3,546.94	3,411.62	135.32	26.212		
14,600.00	7,730.00	7,798.77	7,676.67	106.70	32.76	-91.16	-185.21	5,830.97	3,639.98	3,504.31	135.67	26.830		
14,700.00	7,730.00	7,799.72	7,677.62	107.57	32.76	-91.20	-185.22	5,830.98	3,733.39	3,597.39	136.00	27.451		
14,800.00	7,730.00	7,800.68	7,678.58	108.48	32.76	-91.24	-185.23	5,830.98	3,827.13	3,690.82	136.31	28.077		
14,900.00	7,730.00	7,801.64	7,679.54	109.43	32.76	-91.29	-185.24	5,830.98	3,921.18	3,784.58	136.59	28.707		
15,000.00	7,730.00	7,802.60	7,680.50	110.42	32.77	-91.33	-185.25	5,830.99	4,015.51	3,878.65	136.86	29.340		
15,100.00	7,730.00	7,803.56	7,681.46	111.43	32.77	-91.37	-185.26	5,830.99	4,110.11	3,973.00	137.11	29.976		
15,200.00	7,730.00	7,804.53	7,682.42	112.49	32.77	-91.41	-185.27	5,831.00	4,204.97	4,067.62	137.35	30.615		
15,300.00	7,730.00	7,805.49	7,683.39	113.57	32.78	-91.45	-185.28	5,831.00	4,300.05	4,162.48	137.57	31.257		
15,400.00	7,730.00	7,806.46	7,684.36	114.68	32.78	-91.50	-185.29	5,831.01	4,395.35	4,257.57	137.78	31.901		
15,500.00	7,730.00	7,807.43	7,685.33	115.82	32.78	-91.54	-185.29	5,831.01	4,490.86	4,352.88	137.98	32.548		
15,600.00	7,730.00	7,808.40	7,686.30	116.99	32.78	-91.58	-185.29	5,831.00	4,586.56	4,448.40	138.16	33.197		
15,700.00	7,730.00	7,809.37	7,687.27	118.19	32.78	-91.62	-185.29	5,831.01	4,682.44	4,544.10	138.34	33.848		
15,800.00	7,730.00	7,810.34	7,688.24	119.41	32.78	-91.66	-185.30	5,831.01	4,778.49	4,639.99	138.50	34.501		
15,900.00	7,730.00	7,811.31	7,689.21	120.65	32.79	-91.70	-185.31	5,831.01	4,874.69	4,736.03	138.66	35.156		
16,000.00	7,730.00	7,812.28	7,690.18	121.91	32.79	-91.74	-185.31	5,831.02	4,971.05	4,832.24	138.81	35.812		
16,100.00	7,730.00	7,813.25	7,691.15	123.20	32.79	-91.78	-185.32	5,831.02	5,067.55	4,928.60	138.95	36.470		
16,200.00	7,730.00	7,814.22	7,692.12	124.50	32.79	-91.82	-185.33	5,831.02	5,164.18	5,025.09	139.09	37.129		
16,300.00	7,730.00	7,815.19	7,693.09	125.82	32.80	-91.86	-185.33	5,831.03	5,260.93	5,121.72	139.21	37.790		
16,400.00	7,730.00	7,816.16	7,694.06	127.16	32.80	-91.90	-185.34	5,831.03	5,357.81	5,218.47	139.34	38.452		
16,500.00	7,730.00	7,817.13	7,695.03	128.52	32.80	-91.94	-185.35	5,831.03	5,454.79	5,315.34	139.46	39.115		
16,600.00	7,730.00	7,818.10	7,696.00	129.89	32.80	-91.98	-185.35	5,831.03	5,551.89	5,412.32	139.57	39.779		
16,700.00	7,730.00	7,819.07	7,696.97	131.27	32.80	-92.02	-185.36	5,831.04	5,649.08	5,509.41	139.68	40.444		
16,800.00	7,730.00	7,820.04	7,697.94	132.67	32.81	-92.06	-185.36	5,831.04	5,746.37	5,606.60	139.78	41.110		
16,900.00	7,730.00	7,821.01	7,698.91	134.09	32.81	-92.10	-185.37	5,831.04	5,843.76	5,703.88	139.88	41.777		
17,000.00	7,730.00	7,821.98	7,699.88	135.51	32.81	-92.14	-185.38	5,831.04	5,941.23	5,801.25	139.97	42.445		
17,100.00	7,730.00	7,822.95	7,700.85	136.95	32.81	-92.18	-185.38	5,831.05	6,038.78	5,898.71	140.07	43.114		
17,200.00	7,730.00	7,823.92	7,701.82	138.40	32.82	-92.22	-185.39	5,831.05	6,136.41	5,996.26	140.16	43.783		
17,300.00	7,730.00	7,824.89	7,702.79	139.85	32.82	-92.26	-185.39	5,831.05	6,234.12	6,093.88	140.24	44.453		
17,400.00	7,730.00	7,825.86	7,703.76	141.32	32.82	-92.30	-185.40	5,831.05	6,331.90	6,191.57	140.32	45.124		
17,500.00	7,730.00	7,826.83	7,704.73	142.80	32.82	-92.34	-185.41	5,831.06	6,429.74	6,289.34	140.40	45.795		
17,600.00	7,730.00	7,827.80	7,705.70	144.28	32.82	-92.38	-185.41	5,831.06	6,527.65	6,387.17	140.48	46.466		
17,700.00	7,730.00	7,828.77	7,706.67	145.78	32.83	-92.42	-185.42	5,831.06	6,625.63	6,485.07	140.56	47.139		
17,800.00	7,730.00	7,829.74	7,707.64	147.28	32.83	-92.46	-185.42	5,831.06	6,723.66	6,583.03	140.63	47.811		
17,900.00	7,730.00	7,830.71	7,708.61	148.79	32.83	-92.50	-185.43	5,831.07	6,821.75	6,681.05	140.70	48.484		
18,000.00	7,730.00	7,831.68	7,709.58	150.31	32.83	-92.54	-185.43	5,831.07	6,919.89	6,779.13	140.77	49.158		
18,100.00	7,730.00	7,832.65	7,710.55	151.83	32.83	-92.58	-185.44	5,831.07	7,018.09	6,877.26	140.84	49.832		
18,200.00	7,730.00	7,833.62	7,711.52	153.37	32.84	-92.62	-185.44	5,831.07	7,116.34	6,975.44	140.90	50.506		
18,300.00	7,730.00	7,834.59	7,712.49	154.90	32.84	-92.66	-185.45	5,831.08	7,214.63	7,073.67	140.96	51.181		
18,400.00	7,730.00	7,835.56	7,713.46	156.45	32.84	-92.70	-185.45	5,831.08	7,312.97	7,171.95	141.03	51.855		
18,500.00	7,730.00	7,836.53	7,714.43	158.00	32.84	-92.74	-185.46	5,831.08	7,411.36	7,270.27	141.09	52.531		
18,600.00	7,730.00	7,837.50	7,715.40	159.55	32.84	-92.78	-185.46	5,831.08	7,509.79	7,368.64	141.15	53.206		
18,700.00	7,730.00	7,838.47	7,716.37	161.11	32.85	-92.82	-185.47	5,831.08	7,608.26	7,467.05	141.20	53.881		
18,800.00	7,730.00	7,839.44	7,717.34	162.68	32.85	-92.86	-185.47	5,831.09	7,706.77	7,565.51	141.26	54.557		
18,900.00	7,730.00	7,840.41	7,718.31	164.25	32.85	-92.90	-185.48	5,831.09	7,805.31	7,664.00	141.32	55.233		
19,000.00	7,730.00	7,841.38	7,719.28	165.83	32.85	-92.94	-185.48	5,831.09	7,903.90	7,762.53	141.37	55.909		
19,100.00	7,730.00	7,842.35	7,720.25	167.41	32.85	-92.98	-185.49	5,831.09	8,002.51	7,861.09	141.42	56.585		
19,200.00	7,730.00	7,843.32	7,721.22	168.99	32.85	-93.02	-185.49	5,831.09	8,101.17	7,959.69	141.48	57.262		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		79-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	7,831.65	7,709.54	170.58	32.86	-92.59	-185.50	5,831.10	8,199.85	8,058.32	141.53	57.938	
19,400.00	7,730.00	7,832.23	7,710.12	172.17	32.86	-92.62	-185.50	5,831.10	8,298.57	8,156.99	141.58	58.615	
19,430.54	7,730.00	7,832.40	7,710.30	172.66	32.86	-92.62	-185.50	5,831.10	8,328.72	8,187.12	141.59	58.821	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.94	761.95	5,382.61	5,436.87					
100.00	100.00	57.32	57.32	0.13	0.09	81.94	761.96	5,382.40	5,436.20	5,435.97	0.23	N/A		
200.00	200.00	177.70	177.69	0.49	0.37	81.94	762.17	5,380.83	5,434.86	5,434.00	0.86	6,338.105		
300.00	300.00	231.43	231.42	0.85	0.55	81.93	762.70	5,380.41	5,434.21	5,432.80	1.41	3,866.882		
400.00	400.00	321.00	320.96	1.21	0.87	81.91	764.84	5,379.91	5,434.01	5,431.93	2.08	2,610.563		
425.34	425.34	344.40	344.34	1.30	0.96	81.90	765.77	5,379.76	5,433.98	5,431.73	2.26	2,407.829		
500.00	500.00	396.14	395.99	1.57	1.15	81.87	768.73	5,379.45	5,434.14	5,431.43	2.71	2,004.440		
600.00	599.98	461.44	461.07	1.92	1.39	16.47	774.11	5,379.15	5,433.20	5,429.90	3.31	1,643.497		
700.00	699.84	1,101.34	1,088.96	2.28	4.23	15.38	885.47	5,338.84	5,425.44	5,418.96	6.49	836.487		
800.00	799.45	1,183.77	1,168.78	2.64	4.65	15.28	903.51	5,328.92	5,408.60	5,401.34	7.26	744.799		
900.00	898.70	1,277.98	1,260.31	3.02	5.14	15.19	922.91	5,317.91	5,388.66	5,380.57	8.09	665.886		
1,000.00	997.47	1,319.97	1,301.22	3.41	5.35	15.24	931.17	5,313.29	5,365.99	5,357.33	8.66	619.407		
1,100.00	1,095.62	1,371.00	1,350.95	3.84	5.61	15.28	941.41	5,308.20	5,341.07	5,331.79	9.28	575.439		
1,200.00	1,193.06	1,421.04	1,399.66	4.29	5.86	15.34	951.87	5,303.56	5,313.74	5,303.83	9.91	536.395		
1,300.00	1,289.64	1,513.84	1,489.65	4.78	6.35	15.32	972.91	5,295.12	5,283.73	5,272.97	10.76	490.935		
1,400.00	1,385.27	1,655.27	1,626.01	5.32	7.13	15.21	1,007.62	5,280.84	5,249.94	5,238.04	11.90	441.045		
1,500.00	1,479.82	1,715.78	1,684.41	5.90	7.46	15.30	1,022.18	5,274.71	5,212.97	5,200.35	12.61	413.250		
1,600.00	1,573.17	1,802.71	1,768.77	6.53	7.92	15.38	1,041.55	5,266.54	5,173.31	5,159.84	13.46	384.331		
1,700.00	1,665.21	1,892.57	1,856.23	7.23	8.39	15.50	1,060.41	5,258.18	5,130.49	5,116.18	14.31	358.484		
1,800.00	1,755.84	1,961.33	1,923.44	7.98	8.73	15.69	1,073.60	5,252.13	5,084.85	5,069.79	15.06	337.696		
1,900.00	1,844.94	2,025.00	1,985.70	8.80	9.05	15.93	1,085.84	5,246.91	5,036.74	5,020.96	15.78	319.134		
2,000.00	1,932.39	2,177.56	2,133.96	9.68	9.85	16.06	1,119.07	5,233.20	4,985.63	4,968.66	16.97	293.852		
2,100.00	2,018.11	2,323.94	2,276.17	10.63	10.62	16.25	1,150.03	5,217.71	4,930.04	4,911.92	18.11	272.165		
2,200.00	2,101.97	2,401.97	2,352.34	11.65	11.02	16.60	1,164.81	5,209.41	4,871.42	4,852.49	18.92	257.432		
2,300.00	2,183.88	2,455.83	2,404.97	12.74	11.29	17.02	1,174.81	5,203.88	4,810.36	4,790.73	19.63	245.075		
2,400.00	2,263.74	2,508.27	2,456.13	13.90	11.55	17.47	1,185.09	5,198.67	4,747.09	4,726.75	20.34	233.417		
2,431.61	2,288.54	2,523.94	2,471.40	14.29	11.63	17.63	1,188.25	5,197.15	4,726.64	4,706.08	20.56	229.848		
2,500.00	2,341.97	2,557.86	2,504.44	15.13	11.81	17.61	1,195.24	5,193.93	4,682.27	4,661.23	21.05	222.469		
2,600.00	2,420.08	2,646.58	2,590.73	16.37	12.27	17.55	1,214.14	5,185.63	4,617.63	4,595.69	21.93	210.524		
2,700.00	2,498.20	2,756.22	2,697.25	17.63	12.85	17.48	1,237.59	5,174.52	4,552.36	4,529.45	22.92	198.653		
2,800.00	2,576.32	2,855.04	2,793.23	18.89	13.38	17.41	1,258.58	5,163.95	4,486.68	4,462.83	23.85	188.090		
2,900.00	2,654.43	2,920.48	2,856.63	20.17	13.73	17.35	1,273.07	5,156.70	4,420.85	4,396.19	24.66	179.241		
3,000.00	2,732.55	2,977.27	2,911.55	21.45	14.05	17.28	1,286.13	5,150.51	4,355.28	4,329.83	25.45	171.125		
3,100.00	2,810.67	3,026.43	2,958.94	22.74	14.33	17.22	1,298.12	5,145.30	4,290.14	4,263.92	26.22	163.616		
3,200.00	2,888.78	3,081.61	3,011.96	24.03	14.64	17.13	1,312.33	5,139.65	4,225.44	4,198.42	27.03	156.342		
3,300.00	2,966.90	3,144.22	3,072.09	25.33	15.00	17.02	1,328.65	5,133.42	4,161.04	4,133.17	27.87	149.281		
3,400.00	3,045.02	3,250.07	3,173.74	26.63	15.62	16.84	1,356.17	5,122.72	4,096.52	4,067.62	28.90	141.769		
3,500.00	3,123.13	3,345.63	3,265.44	27.94	16.17	16.67	1,380.99	5,112.46	4,031.54	4,001.67	29.87	134.957		
3,600.00	3,201.25	3,405.05	3,322.42	29.24	16.52	16.55	1,396.59	5,106.05	3,966.57	3,935.85	30.72	129.134		
3,700.00	3,279.37	3,523.12	3,435.45	30.55	17.22	16.30	1,428.08	5,092.96	3,901.53	3,869.76	31.78	122.783		
3,800.00	3,357.49	3,593.64	3,502.86	31.86	17.65	16.14	1,447.07	5,084.62	3,835.94	3,803.28	32.67	117.432		
3,900.00	3,435.60	3,655.96	3,562.52	33.18	18.01	16.00	1,463.59	5,077.42	3,770.51	3,736.99	33.52	112.483		
4,000.00	3,513.72	3,715.03	3,619.44	34.49	18.35	15.89	1,478.05	5,071.11	3,705.42	3,671.05	34.37	107.819		
4,100.00	3,591.84	3,777.55	3,679.81	35.81	18.70	15.78	1,492.99	5,064.76	3,640.65	3,605.43	35.22	103.374		
4,200.00	3,669.95	3,872.79	3,771.57	37.12	19.25	15.58	1,516.53	5,054.98	3,575.96	3,539.80	36.16	98.885		
4,300.00	3,748.07	3,968.12	3,863.36	38.44	19.79	15.38	1,540.04	5,044.48	3,510.68	3,473.59	37.09	94.641		
4,400.00	3,826.19	4,048.11	3,940.82	39.76	20.23	15.24	1,558.01	5,035.78	3,445.18	3,407.20	37.98	90.717		
4,500.00	3,904.30	4,116.81	4,007.42	41.08	20.60	15.12	1,573.15	5,028.37	3,379.69	3,340.87	38.83	87.042		
4,600.00	3,982.42	4,177.86	4,066.82	42.40	20.92	15.04	1,585.81	5,022.20	3,314.50	3,274.83	39.67	83.559		
4,700.00	4,060.54	4,258.74	4,145.72	43.72	21.33	14.94	1,601.73	5,014.34	3,249.43	3,208.90	40.52	80.186		
4,800.00	4,138.66	4,344.40	4,228.21	45.05	21.98	14.77	1,626.49	5,001.11	3,183.80	3,142.39	41.42	76.871		
4,900.00	4,216.77	4,400.00	4,346.30	46.37	24.72	14.63	1,642.98	4,991.58	3,117.30	3,072.77	44.54	69.995		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,515.96	4,396.06	47.69	22.68	14.54	1,653.39	4,985.67	3,051.06	3,007.96	43.10	70.793		
5,100.00	4,373.01	4,555.00	4,434.14	49.02	22.88	14.49	1,660.98	4,981.64	2,985.58	2,941.65	43.93	67.957		
5,200.00	4,451.12	4,597.39	4,475.65	50.34	23.08	14.44	1,668.70	4,977.89	2,921.00	2,876.24	44.76	65.254		
5,300.00	4,529.24	4,648.00	4,525.47	51.67	23.32	14.42	1,676.94	4,974.52	2,857.53	2,811.92	45.61	62.653		
5,400.00	4,607.36	4,754.27	4,630.51	52.99	23.77	14.44	1,691.65	4,967.99	2,794.26	2,747.85	46.41	60.206		
5,500.00	4,685.47	4,814.14	4,689.88	54.32	24.01	14.49	1,698.48	4,964.35	2,730.45	2,683.22	47.23	57.809		
5,600.00	4,763.59	4,879.72	4,755.06	55.64	24.25	14.58	1,704.77	4,960.88	2,666.94	2,618.89	48.05	55.500		
5,700.00	4,841.71	4,949.96	4,824.98	56.97	24.50	14.71	1,710.64	4,957.68	2,603.77	2,554.90	48.87	53.280		
5,800.00	4,919.83	5,035.39	4,910.14	58.30	24.80	14.92	1,716.34	4,954.03	2,540.54	2,490.87	49.66	51.157		
5,900.00	4,997.94	5,086.62	4,961.27	59.62	24.96	15.08	1,719.00	4,952.29	2,477.68	2,427.16	50.52	49.042		
6,000.00	5,076.06	5,159.04	5,033.62	60.95	25.17	15.35	1,721.57	4,950.58	2,415.39	2,364.05	51.34	47.044		
6,100.00	5,154.18	5,237.87	5,112.44	62.28	25.37	15.75	1,721.52	4,949.18	2,352.99	2,300.83	52.16	45.110		
6,200.00	5,232.29	5,303.90	5,178.45	63.61	25.52	16.14	1,720.25	4,948.49	2,290.91	2,237.88	53.03	43.201		
6,300.00	5,310.41	5,387.15	5,261.67	64.93	25.70	16.67	1,718.26	4,947.79	2,229.02	2,175.15	53.86	41.382		
6,400.00	5,388.53	5,484.58	5,359.07	66.26	25.92	17.32	1,716.03	4,946.37	2,166.78	2,112.11	54.67	39.631		
6,500.00	5,466.64	5,557.56	5,432.02	67.59	26.09	17.84	1,714.32	4,944.98	2,104.31	2,048.72	55.59	37.852		
6,600.00	5,544.76	5,626.11	5,500.54	68.92	26.25	18.35	1,712.90	4,943.82	2,042.19	1,985.63	56.56	36.107		
6,700.00	5,622.88	5,694.05	5,568.47	70.25	26.42	18.87	1,711.94	4,942.92	1,980.55	1,922.99	57.56	34.408		
6,800.00	5,701.00	5,764.65	5,639.06	71.58	26.59	19.43	1,711.20	4,942.21	1,919.35	1,860.76	58.59	32.760		
6,900.00	5,779.11	5,842.81	5,717.22	72.91	26.79	20.08	1,710.53	4,941.53	1,858.42	1,798.80	59.62	31.170		
7,000.00	5,857.23	5,915.16	5,789.56	74.23	26.97	20.72	1,710.04	4,940.92	1,797.71	1,736.98	60.72	29.605		
7,100.00	5,935.35	5,989.59	5,863.98	75.56	27.16	21.40	1,709.80	4,940.52	1,737.44	1,675.58	61.86	28.086		
7,200.00	6,013.46	6,068.67	5,943.07	76.89	27.36	22.18	1,709.62	4,940.04	1,677.33	1,614.31	63.03	26.613		
7,300.00	6,091.58	6,143.05	6,017.44	78.22	27.56	22.95	1,709.66	4,939.64	1,617.51	1,553.24	64.27	25.166		
7,400.00	6,169.70	6,220.87	6,095.26	79.55	27.78	23.80	1,709.95	4,939.28	1,558.01	1,492.45	65.56	23.764		
7,500.00	6,247.81	6,295.13	6,169.52	80.88	27.98	24.66	1,710.35	4,939.00	1,498.84	1,431.90	66.94	22.391		
7,600.00	6,325.93	6,368.03	6,242.42	82.21	28.18	25.57	1,710.79	4,938.95	1,440.20	1,371.80	68.40	21.055		
7,700.00	6,404.05	6,442.63	6,317.02	83.54	28.38	26.59	1,710.84	4,939.22	1,382.19	1,312.24	69.95	19.759		
7,800.00	6,482.17	6,524.97	6,399.36	84.87	28.60	27.81	1,710.84	4,939.46	1,324.50	1,252.94	71.56	18.510		
7,900.00	6,560.28	6,601.24	6,475.63	86.20	28.81	29.03	1,710.82	4,939.64	1,267.18	1,193.87	73.31	17.285		
8,000.00	6,638.40	6,684.21	6,558.60	87.53	29.03	30.49	1,710.66	4,939.75	1,210.29	1,135.13	75.16	16.102		
8,100.00	6,716.52	6,763.13	6,637.52	88.86	29.24	32.00	1,710.48	4,939.59	1,153.71	1,076.52	77.19	14.946		
8,200.00	6,794.63	6,841.79	6,716.18	90.20	29.45	33.64	1,710.40	4,939.46	1,097.80	1,018.40	79.39	13.827		
8,300.00	6,872.75	6,920.94	6,795.33	91.53	29.67	35.44	1,710.39	4,939.21	1,042.53	960.75	81.79	12.747		
8,400.00	6,950.87	6,998.70	6,873.09	92.86	29.89	37.38	1,710.35	4,938.95	988.13	903.72	84.41	11.706		
8,500.00	7,028.98	7,076.70	6,951.09	94.19	30.11	39.52	1,710.29	4,938.68	934.77	847.49	87.28	10.710		
8,600.00	7,107.10	7,154.56	7,028.95	95.52	30.33	41.87	1,710.31	4,938.43	882.64	792.20	90.43	9.760		
8,647.91	7,144.53	7,192.46	7,066.85	96.16	30.44	43.09	1,710.38	4,938.31	858.15	766.11	92.04	9.323		
8,650.00	7,146.16	7,194.14	7,068.53	96.18	30.44	42.78	1,710.39	4,938.30	857.09	764.98	92.11	9.305		
8,700.00	7,185.66	7,234.80	7,109.19	96.84	30.56	35.03	1,710.49	4,938.13	831.08	737.38	93.69	8.870		
8,750.00	7,225.78	7,276.00	7,150.39	97.47	30.68	26.43	1,710.63	4,937.90	803.90	708.90	95.01	8.462		
8,800.00	7,266.21	7,316.84	7,191.23	98.08	30.80	17.10	1,710.76	4,937.63	775.62	679.60	96.02	8.077		
8,850.00	7,306.63	7,357.70	7,232.08	98.64	30.92	7.23	1,710.87	4,937.31	746.33	649.62	96.70	7.718		
8,900.00	7,346.75	7,398.03	7,272.41	99.17	31.04	-2.99	1,710.99	4,936.96	716.16	619.15	97.01	7.382		
8,950.00	7,386.25	7,437.66	7,312.04	99.64	31.15	-13.40	1,711.14	4,936.61	685.35	588.47	96.89	7.074		
9,000.00	7,424.84	7,476.32	7,350.70	100.06	31.27	-23.85	1,711.31	4,936.25	654.21	557.92	96.28	6.795		
9,050.00	7,462.22	7,513.69	7,388.07	100.42	31.38	-34.18	1,711.51	4,935.88	623.13	528.00	95.13	6.550		
9,100.00	7,498.11	7,549.50	7,423.87	100.74	31.48	-44.24	1,711.73	4,935.52	592.64	499.29	93.36	6.348		
9,150.00	7,532.24	7,581.84	7,456.21	100.99	31.58	-53.70	1,711.92	4,935.22	563.47	472.53	90.94	6.196		
9,200.00	7,564.34	7,612.46	7,486.83	101.19	31.67	-62.44	1,712.07	4,935.00	536.45	448.63	87.82	6.109		
9,250.00	7,594.17	7,641.04	7,515.41	101.34	31.76	-70.29	1,712.17	4,934.85	512.51	428.46	84.05	6.098 SF		
9,300.00	7,621.50	7,667.58	7,541.95	101.45	31.83	-77.15	1,712.26	4,934.76	492.69	412.87	79.82	6.173		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,691.52	7,565.89	101.50	31.90	-82.89	1,712.34	4,934.70	478.08	402.46	75.61	6.323		
9,400.00	7,667.87	7,712.65	7,587.02	101.51	31.97	-87.49	1,712.41	4,934.66	469.70	397.45	72.25	6.501		
9,434.19	7,680.99	7,725.39	7,599.76	101.49	32.00	-89.97	1,712.45	4,934.65	467.99	397.04	70.95	6.596 CC, ES		
9,450.00	7,686.55	7,730.80	7,605.17	101.48	32.02	-90.93	1,712.47	4,934.65	468.36	397.65	70.71	6.623		
9,500.00	7,702.04	7,746.08	7,620.45	101.42	32.07	-93.25	1,712.52	4,934.65	474.49	402.88	71.60	6.626		
9,550.00	7,714.20	7,758.21	7,632.57	101.33	32.10	-94.41	1,712.56	4,934.65	488.04	413.40	74.64	6.539		
9,600.00	7,722.96	7,766.92	7,641.29	101.20	32.13	-94.31	1,712.58	4,934.65	508.57	429.66	78.91	6.445		
9,650.00	7,728.24	7,772.15	7,646.52	101.06	32.14	-92.87	1,712.59	4,934.65	535.30	451.80	83.49	6.411		
9,699.97	7,730.00	7,773.83	7,648.20	100.90	32.15	-89.89	1,712.59	4,934.65	567.23	479.43	87.81	6.460		
9,800.00	7,730.00	7,773.62	7,647.99	100.56	32.15	-89.86	1,712.59	4,934.65	639.87	544.70	95.17	6.723		
9,900.00	7,730.00	7,773.40	7,647.77	100.24	32.15	-89.83	1,712.59	4,934.65	719.10	618.13	100.97	7.122		
10,000.00	7,730.00	7,773.19	7,647.56	99.93	32.15	-89.80	1,712.59	4,934.65	802.97	697.52	105.46	7.614		
10,100.00	7,730.00	7,772.97	7,647.34	99.64	32.14	-89.77	1,712.59	4,934.65	890.19	781.24	108.94	8.171		
10,200.00	7,730.00	7,772.75	7,647.12	99.36	32.14	-89.74	1,712.59	4,934.65	979.84	868.16	111.69	8.773		
10,300.00	7,730.00	7,772.53	7,646.90	99.09	32.14	-89.71	1,712.59	4,934.65	1,071.34	957.46	113.88	9.408		
10,400.00	7,730.00	7,772.31	7,646.68	98.84	32.14	-89.68	1,712.59	4,934.65	1,164.23	1,048.57	115.65	10.067		
10,500.00	7,730.00	7,772.09	7,646.45	98.61	32.14	-89.65	1,712.59	4,934.65	1,258.21	1,141.09	117.11	10.743		
10,600.00	7,730.00	7,771.86	7,646.23	98.39	32.14	-89.62	1,712.59	4,934.65	1,353.05	1,234.72	118.33	11.434		
10,700.00	7,730.00	7,771.63	7,646.00	98.18	32.14	-89.58	1,712.59	4,934.65	1,448.59	1,329.23	119.36	12.136		
10,800.00	7,730.00	7,771.40	7,645.77	97.99	32.14	-89.55	1,712.59	4,934.65	1,544.69	1,424.46	120.24	12.847		
10,900.00	7,730.00	7,771.17	7,645.54	97.81	32.14	-89.52	1,712.59	4,934.65	1,641.26	1,520.27	120.99	13.565		
11,000.00	7,730.00	7,770.94	7,645.31	97.64	32.14	-89.49	1,712.59	4,934.65	1,738.22	1,616.57	121.65	14.289		
11,100.00	7,730.00	7,770.70	7,645.07	97.50	32.14	-89.46	1,712.59	4,934.65	1,835.50	1,713.28	122.22	15.018		
11,200.00	7,730.00	7,770.47	7,644.84	97.36	32.14	-89.42	1,712.59	4,934.65	1,933.06	1,810.34	122.73	15.751		
11,300.00	7,730.00	7,770.23	7,644.60	97.24	32.14	-89.39	1,712.59	4,934.65	2,030.86	1,907.68	123.18	16.487		
11,400.00	7,730.00	7,769.99	7,644.36	97.14	32.14	-89.36	1,712.59	4,934.65	2,128.86	2,005.28	123.58	17.227		
11,500.00	7,730.00	7,769.75	7,644.11	97.06	32.14	-89.32	1,712.58	4,934.65	2,227.04	2,103.10	123.94	17.969		
11,600.00	7,730.00	7,769.50	7,643.87	96.98	32.13	-89.29	1,712.58	4,934.65	2,325.38	2,201.11	124.27	18.713		
11,700.00	7,730.00	7,769.25	7,643.62	96.93	32.13	-89.25	1,712.58	4,934.65	2,423.85	2,299.29	124.56	19.459		
11,800.00	7,730.00	7,769.01	7,643.37	96.90	32.13	-89.22	1,712.58	4,934.65	2,522.44	2,397.61	124.83	20.207		
11,900.00	7,730.00	7,768.76	7,643.12	96.88	32.13	-89.19	1,712.58	4,934.65	2,621.14	2,496.06	125.08	20.956		
12,000.00	7,730.00	7,768.50	7,642.87	96.88	32.13	-89.15	1,712.58	4,934.65	2,719.93	2,594.63	125.30	21.707		
12,100.00	7,730.00	7,768.25	7,642.62	96.90	32.13	-89.12	1,712.58	4,934.65	2,818.81	2,693.30	125.51	22.458		
12,200.00	7,730.00	7,767.99	7,642.36	96.94	32.13	-89.08	1,712.58	4,934.65	2,917.77	2,792.06	125.71	23.211		
12,300.00	7,730.00	7,767.73	7,642.10	97.00	32.13	-89.04	1,712.58	4,934.65	3,016.79	2,890.90	125.89	23.964		
12,400.00	7,730.00	7,767.47	7,641.84	97.08	32.13	-89.01	1,712.58	4,934.65	3,115.88	2,989.82	126.05	24.719		
12,500.00	7,730.00	7,767.21	7,641.58	97.18	32.13	-88.97	1,712.58	4,934.65	3,215.02	3,088.81	126.21	25.474		
12,600.00	7,730.00	7,766.94	7,641.31	97.31	32.13	-88.93	1,712.58	4,934.65	3,314.21	3,187.86	126.35	26.230		
12,700.00	7,730.00	7,766.67	7,641.04	97.46	32.13	-88.90	1,712.58	4,934.65	3,413.45	3,286.96	126.49	26.986		
12,800.00	7,730.00	7,766.40	7,640.77	97.64	32.13	-88.86	1,712.58	4,934.65	3,512.74	3,386.12	126.62	27.743		
12,900.00	7,730.00	7,766.13	7,640.50	97.85	32.12	-88.82	1,712.58	4,934.65	3,612.06	3,485.32	126.74	28.500		
13,000.00	7,730.00	7,765.86	7,640.23	98.09	32.12	-88.78	1,712.58	4,934.65	3,711.42	3,584.57	126.85	29.257		
13,100.00	7,730.00	7,765.58	7,639.95	98.35	32.12	-88.75	1,712.57	4,934.65	3,810.82	3,683.85	126.96	30.015		
13,200.00	7,730.00	7,765.30	7,639.67	98.65	32.12	-88.71	1,712.57	4,934.65	3,910.24	3,783.17	127.06	30.774		
13,300.00	7,730.00	7,765.02	7,639.39	98.98	32.12	-88.67	1,712.57	4,934.65	4,009.69	3,882.53	127.16	31.532		
13,400.00	7,730.00	7,764.73	7,639.10	99.34	32.12	-88.63	1,712.57	4,934.65	4,109.17	3,981.92	127.26	32.291		
13,500.00	7,730.00	7,764.45	7,638.82	99.74	32.12	-88.59	1,712.57	4,934.65	4,208.68	4,081.33	127.34	33.050		
13,600.00	7,730.00	7,764.16	7,638.53	100.17	32.12	-88.55	1,712.57	4,934.65	4,308.20	4,180.78	127.43	33.809		
13,700.00	7,730.00	7,763.87	7,638.23	100.65	32.12	-88.51	1,712.57	4,934.65	4,407.75	4,280.24	127.51	34.568		
13,800.00	7,730.00	7,763.57	7,637.94	101.16	32.12	-88.47	1,712.57	4,934.65	4,507.32	4,379.73	127.59	35.328		
13,900.00	7,730.00	7,763.27	7,637.64	101.71	32.12	-88.43	1,712.57	4,934.65	4,606.91	4,479.25	127.66	36.087		
14,000.00	7,730.00	7,762.97	7,637.34	102.30	32.12	-88.39	1,712.57	4,934.65	4,706.51	4,578.78	127.73	36.847		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,762.67	7,637.04	102.93	32.11	-88.34	1,712.57	4,934.65	4,806.13	4,678.33	127.80	37.606		
14,200.00	7,730.00	7,762.37	7,636.73	103.60	32.11	-88.30	1,712.57	4,934.65	4,905.77	4,777.90	127.87	38.366		
14,300.00	7,730.00	7,762.06	7,636.43	104.32	32.11	-88.26	1,712.57	4,934.65	5,005.42	4,877.49	127.93	39.126		
14,400.00	7,730.00	7,761.75	7,636.12	105.07	32.11	-88.22	1,712.57	4,934.65	5,105.08	4,977.09	127.99	39.886		
14,500.00	7,730.00	7,761.43	7,635.80	105.86	32.11	-88.17	1,712.56	4,934.65	5,204.76	5,076.71	128.05	40.645		
14,600.00	7,730.00	7,761.12	7,635.48	106.70	32.11	-88.13	1,712.56	4,934.65	5,304.45	5,176.34	128.11	41.405		
14,700.00	7,730.00	7,760.80	7,635.17	107.57	32.11	-88.08	1,712.56	4,934.65	5,404.15	5,275.99	128.17	42.165		
14,800.00	7,730.00	7,760.47	7,634.84	108.48	32.11	-88.04	1,712.56	4,934.65	5,503.86	5,375.64	128.22	42.925		
14,900.00	7,730.00	7,760.15	7,634.52	109.43	32.11	-87.99	1,712.56	4,934.65	5,603.59	5,475.31	128.28	43.684		
15,000.00	7,730.00	7,759.82	7,634.19	110.42	32.11	-87.95	1,712.56	4,934.65	5,703.32	5,574.99	128.33	44.444		
15,100.00	7,730.00	7,759.49	7,633.86	111.43	32.10	-87.90	1,712.56	4,934.65	5,803.06	5,674.68	128.38	45.203		
15,200.00	7,730.00	7,759.15	7,633.52	112.49	32.10	-87.86	1,712.56	4,934.65	5,902.81	5,774.38	128.43	45.963		
15,300.00	7,730.00	7,758.81	7,633.18	113.57	32.10	-87.81	1,712.56	4,934.65	6,002.57	5,874.09	128.47	46.722		
15,400.00	7,730.00	7,758.47	7,632.84	114.68	32.10	-87.76	1,712.56	4,934.65	6,102.33	5,973.81	128.52	47.481		
15,500.00	7,730.00	7,758.13	7,632.50	115.82	32.10	-87.71	1,712.56	4,934.65	6,202.11	6,073.54	128.57	48.240		
15,600.00	7,730.00	7,757.78	7,632.15	116.99	32.10	-87.67	1,712.56	4,934.65	6,301.89	6,173.28	128.61	48.999		
15,700.00	7,730.00	7,757.43	7,631.80	118.19	32.10	-87.62	1,712.55	4,934.65	6,401.68	6,273.02	128.66	49.758		
15,800.00	7,730.00	7,757.07	7,631.44	119.41	32.10	-87.57	1,712.55	4,934.65	6,501.47	6,372.77	128.70	50.516		
15,900.00	7,730.00	7,756.72	7,631.08	120.65	32.10	-87.52	1,712.55	4,934.65	6,601.27	6,472.53	128.74	51.275		
16,000.00	7,730.00	7,756.35	7,630.72	121.91	32.10	-87.47	1,712.55	4,934.65	6,701.08	6,572.29	128.78	52.033		
16,100.00	7,730.00	7,755.99	7,630.36	123.20	32.09	-87.42	1,712.55	4,934.65	6,800.89	6,672.06	128.83	52.791		
16,200.00	7,730.00	7,755.62	7,629.99	124.50	32.09	-87.37	1,712.55	4,934.65	6,900.70	6,771.84	128.87	53.549		
16,300.00	7,730.00	7,755.25	7,629.61	125.82	32.09	-87.32	1,712.55	4,934.65	7,000.53	6,871.62	128.91	54.307		
16,400.00	7,730.00	7,754.87	7,629.24	127.16	32.09	-87.26	1,712.55	4,934.65	7,100.35	6,971.41	128.95	55.065		
16,500.00	7,730.00	7,754.49	7,628.86	128.52	32.09	-87.21	1,712.55	4,934.65	7,200.19	7,071.20	128.98	55.822		
16,600.00	7,730.00	7,754.10	7,628.47	129.89	32.09	-87.16	1,712.54	4,934.65	7,300.02	7,171.00	129.02	56.579		
16,700.00	7,730.00	7,753.72	7,628.08	131.27	32.09	-87.10	1,712.54	4,934.65	7,399.87	7,270.80	129.06	57.336		
16,800.00	7,730.00	7,753.32	7,627.69	132.67	32.09	-87.05	1,712.54	4,934.65	7,499.71	7,370.61	129.10	58.093		
16,900.00	7,730.00	7,752.93	7,627.30	134.09	32.09	-87.00	1,712.54	4,934.65	7,599.56	7,470.43	129.13	58.850		
17,000.00	7,730.00	7,752.53	7,626.90	135.51	32.08	-86.94	1,712.54	4,934.65	7,699.41	7,570.24	129.17	59.606		
17,100.00	7,730.00	7,752.12	7,626.49	136.95	32.08	-86.88	1,712.54	4,934.65	7,799.27	7,670.06	129.21	60.362		
17,200.00	7,730.00	7,751.71	7,626.08	138.40	32.08	-86.83	1,712.54	4,934.65	7,899.13	7,769.89	129.24	61.118		
17,300.00	7,730.00	7,751.30	7,625.67	139.85	32.08	-86.77	1,712.54	4,934.65	7,999.00	7,869.72	129.28	61.874		
17,400.00	7,730.00	7,750.88	7,625.25	141.32	32.08	-86.71	1,712.54	4,934.65	8,098.86	7,969.55	129.32	62.629		
17,500.00	7,730.00	7,750.46	7,624.83	142.80	32.08	-86.65	1,712.53	4,934.65	8,198.73	8,069.38	129.35	63.384		
17,600.00	7,730.00	7,750.03	7,624.40	144.28	32.08	-86.60	1,712.53	4,934.65	8,298.61	8,169.22	129.39	64.139		
17,700.00	7,730.00	7,749.60	7,623.97	145.78	32.08	-86.54	1,712.53	4,934.65	8,398.48	8,269.06	129.42	64.893		
17,800.00	7,730.00	7,749.17	7,623.54	147.28	32.07	-86.48	1,712.53	4,934.65	8,498.36	8,368.91	129.45	65.648		
17,900.00	7,730.00	7,748.73	7,623.09	148.79	32.07	-86.42	1,712.53	4,934.65	8,598.25	8,468.76	129.49	66.402		
18,000.00	7,730.00	7,748.28	7,622.65	150.31	32.07	-86.35	1,712.53	4,934.65	8,698.13	8,568.61	129.52	67.155		
18,100.00	7,730.00	7,747.83	7,622.20	151.83	32.07	-86.29	1,712.53	4,934.65	8,798.02	8,668.46	129.56	67.909		
18,200.00	7,730.00	7,747.38	7,621.74	153.37	32.07	-86.23	1,712.53	4,934.65	8,897.91	8,768.32	129.59	68.662		
18,300.00	7,730.00	7,746.92	7,621.28	154.90	32.07	-86.17	1,712.52	4,934.65	8,997.80	8,868.18	129.62	69.415		
18,400.00	7,730.00	7,746.45	7,620.82	156.45	32.07	-86.10	1,712.52	4,934.65	9,097.70	8,968.04	129.66	70.167		
18,500.00	7,730.00	7,745.98	7,620.35	158.00	32.07	-86.04	1,712.52	4,934.65	9,197.59	9,067.90	129.69	70.919		
18,600.00	7,730.00	7,745.50	7,619.87	159.55	32.06	-85.97	1,712.52	4,934.65	9,297.49	9,167.77	129.72	71.671		
18,700.00	7,730.00	7,745.02	7,619.39	161.11	32.06	-85.90	1,712.52	4,934.65	9,397.40	9,267.64	129.76	72.423		
18,800.00	7,730.00	7,744.53	7,618.90	162.68	32.06	-85.84	1,712.52	4,934.65	9,497.30	9,367.51	129.79	73.174		
18,900.00	7,730.00	7,744.04	7,618.41	164.25	32.06	-85.77	1,712.51	4,934.65	9,597.21	9,467.38	129.82	73.925		
19,000.00	7,730.00	7,743.54	7,617.91	165.83	32.06	-85.70	1,712.51	4,934.65	9,697.11	9,567.26	129.86	74.675		
19,100.00	7,730.00	7,743.04	7,617.41	167.41	32.06	-85.63	1,712.51	4,934.65	9,797.02	9,667.13	129.89	75.426		
19,200.00	7,730.00	7,742.53	7,616.90	168.99	32.05	-85.56	1,712.51	4,934.65	9,896.93	9,767.01	129.92	76.175		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 139-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,742.01	7,616.38	170.58	32.05	-85.49	1,712.51	4,934.65	9,996.85	9,866.89	129.96	76.925	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.83	776.52	5,407.80	5,463.87					
100.00	100.00	0.00	0.00	0.13	0.00	81.83	776.52	5,407.80	5,463.30	5,463.17	0.13	N/A		
200.00	200.00	67.15	67.14	0.49	0.11	81.83	776.85	5,408.08	5,463.83	5,463.23	0.60	9,057.775		
300.00	300.00	138.00	137.98	0.85	0.23	81.82	777.91	5,408.96	5,465.22	5,464.14	1.08	5,075.243		
400.00	400.00	164.46	164.43	1.21	0.33	81.81	778.54	5,409.51	5,467.43	5,465.90	1.53	3,568.659		
500.00	500.00	200.00	199.94	1.57	0.46	81.80	779.68	5,410.57	5,470.85	5,468.83	2.02	2,708.378		
600.00	599.98	229.00	228.89	1.92	0.56	16.42	780.88	5,411.71	5,473.78	5,471.30	2.48	2,209.516		
700.00	699.84	266.49	266.29	2.28	0.70	16.41	782.62	5,413.62	5,474.57	5,471.60	2.96	1,846.813		
800.00	799.45	320.00	319.61	2.64	0.90	16.41	785.27	5,417.28	5,473.40	5,469.89	3.51	1,558.264		
900.00	898.70	320.00	319.61	3.02	0.90	16.43	785.27	5,417.28	5,469.89	5,466.02	3.87	1,413.741		
1,000.00	997.47	372.38	371.71	3.41	1.10	16.46	788.14	5,421.76	5,464.23	5,459.81	4.42	1,235.223		
1,100.00	1,095.62	411.00	410.08	3.84	1.26	16.51	790.48	5,425.52	5,456.36	5,451.43	4.93	1,106.556		
1,200.00	1,193.06	451.24	449.99	4.29	1.42	16.57	793.25	5,429.83	5,446.25	5,440.80	5.45	998.418		
1,300.00	1,289.64	503.00	501.22	4.78	1.63	16.65	797.47	5,435.96	5,433.96	5,427.93	6.03	901.255		
1,400.00	1,385.27	529.50	527.39	5.32	1.75	16.74	799.94	5,439.34	5,419.38	5,412.86	6.52	831.104		
1,500.00	1,479.82	569.01	566.30	5.90	1.92	16.84	804.11	5,444.67	5,402.61	5,395.54	7.07	763.872		
1,600.00	1,573.17	612.34	608.87	6.53	2.12	16.96	809.33	5,450.90	5,383.61	5,375.96	7.65	703.369		
1,700.00	1,665.21	662.29	657.77	7.23	2.35	17.08	816.20	5,458.39	5,362.26	5,353.98	8.28	647.692		
1,800.00	1,755.84	709.01	703.35	7.98	2.58	17.22	823.42	5,465.69	5,338.53	5,329.62	8.91	599.249		
1,900.00	1,844.94	753.00	746.12	8.80	2.80	17.38	830.72	5,472.92	5,312.52	5,302.98	9.55	556.573		
2,000.00	1,932.39	812.22	803.50	9.68	3.11	17.56	841.26	5,483.10	5,284.19	5,273.93	10.27	514.563		
2,100.00	2,018.11	899.53	887.79	10.63	3.57	17.74	858.31	5,498.17	5,253.08	5,241.94	11.14	471.724		
2,200.00	2,101.97	995.05	979.70	11.65	4.10	17.94	878.76	5,514.24	5,218.70	5,206.63	12.08	432.145		
2,300.00	2,183.88	1,063.05	1,044.92	12.74	4.48	18.18	894.20	5,525.74	5,181.54	5,168.63	12.91	401.304		
2,400.00	2,263.74	1,200.00	1,192.62	13.90	12.19	18.42	930.53	5,551.12	5,141.06	5,121.03	20.03	256.639		
2,431.61	2,288.54	1,291.86	1,264.34	14.29	5.79	18.51	947.58	5,562.53	5,127.18	5,112.48	14.71	348.652		
2,500.00	2,341.97	1,344.27	1,314.77	15.13	6.08	18.51	959.42	5,570.48	5,096.89	5,081.56	15.32	332.592		
2,600.00	2,420.08	1,417.50	1,385.15	16.37	6.50	18.50	976.24	5,581.72	5,052.82	5,036.59	16.23	311.416		
2,700.00	2,498.20	1,482.46	1,447.45	17.63	6.88	18.49	991.62	5,591.86	5,009.11	4,992.01	17.10	292.876		
2,800.00	2,576.32	1,543.53	1,505.85	18.89	7.24	18.48	1,006.55	5,601.63	4,965.88	4,947.91	17.98	276.264		
2,900.00	2,654.43	1,600.29	1,560.03	20.17	7.58	18.46	1,020.62	5,611.05	4,923.24	4,904.41	18.84	261.327		
3,000.00	2,732.55	1,682.12	1,638.09	21.45	8.07	18.44	1,040.76	5,625.08	4,881.07	4,861.24	19.83	246.177		
3,100.00	2,810.67	1,824.34	1,774.48	22.74	8.90	18.44	1,072.91	5,649.32	4,838.52	4,817.44	21.08	229.553		
3,200.00	2,888.78	2,009.78	1,954.00	24.03	9.92	18.53	1,108.34	5,679.28	4,794.67	4,772.21	22.46	213.463		
3,300.00	2,966.90	2,085.00	2,027.32	25.33	10.31	18.59	1,120.30	5,691.09	4,749.85	4,726.46	23.39	203.115		
3,400.00	3,045.02	2,152.09	2,092.78	26.63	10.65	18.67	1,130.16	5,702.00	4,705.38	4,681.10	24.28	193.807		
3,500.00	3,123.13	2,179.00	2,119.02	27.94	10.79	18.70	1,134.06	5,706.50	4,661.62	4,636.59	25.04	186.195		
3,600.00	3,201.25	2,235.14	2,173.65	29.24	11.09	18.76	1,142.37	5,716.43	4,618.65	4,592.74	25.91	178.254		
3,700.00	3,279.37	2,272.00	2,209.37	30.55	11.28	18.80	1,148.10	5,723.47	4,576.87	4,550.15	26.72	171.280		
3,800.00	3,357.49	2,317.84	2,253.68	31.86	11.54	18.85	1,155.41	5,732.68	4,536.07	4,508.50	27.58	164.485		
3,900.00	3,435.60	2,366.00	2,300.11	33.18	11.81	18.89	1,163.27	5,742.79	4,496.18	4,467.74	28.45	158.045		
4,000.00	3,513.72	2,453.10	2,383.90	34.49	12.31	18.97	1,177.99	5,761.45	4,456.80	4,427.32	29.48	151.197		
4,100.00	3,591.84	2,523.03	2,451.10	35.81	12.71	19.04	1,190.05	5,776.58	4,417.66	4,387.21	30.45	145.096		
4,200.00	3,669.95	2,628.82	2,552.72	37.12	13.33	19.14	1,208.12	5,799.76	4,378.80	4,347.24	31.56	138.765		
4,300.00	3,748.07	2,804.70	2,722.33	38.44	14.33	19.30	1,238.12	5,835.37	4,338.00	4,305.09	32.91	131.807		
4,400.00	3,826.19	2,882.54	2,797.39	39.76	14.77	19.37	1,251.78	5,850.77	4,297.21	4,263.29	33.92	126.682		
4,500.00	3,904.30	2,977.04	2,888.43	41.08	15.32	19.44	1,269.31	5,869.04	4,256.14	4,221.15	35.00	121.606		
4,600.00	3,982.42	3,068.38	2,976.02	42.40	15.86	19.49	1,287.88	5,887.09	4,215.73	4,179.65	36.07	116.870		
4,700.00	4,060.54	3,162.95	3,066.85	43.72	16.42	19.54	1,307.05	5,905.17	4,174.71	4,137.55	37.16	112.346		
4,800.00	4,138.66	3,240.46	3,141.31	45.05	16.87	19.59	1,322.21	5,920.50	4,134.19	4,095.99	38.19	108.247		
4,900.00	4,216.77	3,329.49	3,226.95	46.37	17.39	19.66	1,338.93	5,938.13	4,093.62	4,054.35	39.27	104.253		
5,000.00	4,294.89	3,396.00	3,290.84	47.69	17.78	19.71	1,351.60	5,951.62	4,053.51	4,013.24	40.27	100.654		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	3,490.38	3,381.35	49.02	18.34	19.77	1,370.07	5,970.93	4,013.66	3,972.29	41.37	97.013		
5,200.00	4,451.12	3,585.51	3,472.52	50.34	18.91	19.83	1,389.24	5,990.21	3,973.71	3,931.23	42.48	93.545		
5,300.00	4,529.24	3,672.92	3,556.26	51.67	19.44	19.88	1,406.96	6,007.91	3,933.77	3,890.21	43.57	90.296		
5,400.00	4,607.36	3,812.18	3,690.20	52.99	20.25	19.99	1,433.90	6,034.85	3,892.64	3,847.84	44.80	86.895		
5,500.00	4,685.47	3,871.61	3,747.35	54.32	20.60	20.04	1,445.25	6,046.57	3,852.04	3,806.23	45.81	84.092		
5,600.00	4,763.59	3,954.07	3,826.51	55.64	21.09	20.10	1,461.28	6,063.19	3,811.90	3,765.01	46.89	81.298		
5,700.00	4,841.71	4,044.81	3,913.66	56.97	21.62	20.18	1,478.57	6,081.63	3,771.89	3,723.89	47.99	78.591		
5,800.00	4,919.83	4,173.48	4,037.63	58.30	22.36	20.31	1,501.84	6,107.01	3,731.10	3,681.90	49.20	75.841		
5,900.00	4,997.94	4,241.00	4,102.63	59.62	22.75	20.38	1,514.20	6,120.49	3,690.62	3,640.37	50.25	73.444		
6,000.00	5,076.06	4,384.60	4,240.87	60.95	23.58	20.51	1,541.88	6,147.71	3,649.22	3,597.74	51.48	70.883		
6,100.00	5,154.18	4,471.25	4,324.24	62.28	24.09	20.58	1,559.12	6,163.86	3,607.77	3,555.19	52.59	68.608		
6,200.00	5,232.29	4,564.00	4,413.53	63.61	24.63	20.65	1,577.50	6,180.99	3,566.17	3,512.46	53.71	66.400		
6,300.00	5,310.41	4,700.84	4,545.03	64.93	25.42	20.74	1,606.13	6,205.73	3,524.50	3,469.59	54.90	64.197		
6,400.00	5,388.53	4,882.52	4,720.81	66.26	26.42	20.89	1,641.95	6,234.45	3,480.31	3,424.19	56.13	62.009		
6,500.00	5,466.64	4,971.96	4,807.56	67.59	26.90	20.97	1,659.29	6,247.54	3,435.18	3,377.96	57.22	60.030		
6,600.00	5,544.76	5,213.54	5,043.27	68.92	28.11	21.27	1,702.07	6,278.37	3,388.33	3,329.95	58.38	58.035		
6,700.00	5,622.88	5,301.26	5,129.75	70.25	28.50	21.47	1,713.12	6,288.03	3,339.28	3,279.80	59.48	56.143		
6,800.00	5,701.00	5,392.62	5,220.03	71.58	28.89	21.73	1,722.55	6,298.36	3,290.30	3,229.71	60.59	54.306		
6,900.00	5,779.11	5,906.43	5,731.97	72.91	30.50	23.91	1,746.31	6,323.65	3,234.55	3,173.37	61.18	52.867		
7,000.00	5,857.23	6,001.22	5,826.75	74.23	30.71	24.44	1,746.69	6,322.29	3,174.47	3,112.24	62.24	51.006		
7,100.00	5,935.35	6,088.21	5,913.72	75.56	30.90	24.95	1,747.06	6,320.73	3,114.26	3,050.93	63.33	49.174		
7,200.00	6,013.46	6,168.17	5,993.66	76.89	31.08	25.43	1,747.44	6,319.11	3,054.00	2,989.54	64.47	47.371		
7,300.00	6,091.58	6,243.87	6,069.35	78.22	31.25	25.91	1,747.74	6,317.57	2,993.89	2,928.24	65.65	45.605		
7,400.00	6,169.70	6,320.89	6,146.35	79.55	31.42	26.41	1,747.91	6,316.07	2,933.98	2,867.12	66.85	43.887		
7,500.00	6,247.81	6,405.56	6,231.00	80.88	31.61	27.00	1,747.54	6,314.31	2,874.10	2,806.03	68.07	42.222		
7,600.00	6,325.93	6,473.18	6,298.61	82.21	31.76	27.50	1,746.95	6,312.97	2,814.47	2,745.09	69.38	40.565		
7,700.00	6,404.05	6,536.22	6,361.64	83.54	31.90	27.98	1,746.47	6,311.93	2,755.31	2,684.56	70.75	38.945		
7,800.00	6,482.17	6,603.94	6,429.35	84.87	32.05	28.50	1,746.50	6,311.16	2,696.75	2,624.61	72.13	37.385		
7,900.00	6,560.28	6,683.68	6,509.08	86.20	32.25	29.12	1,746.80	6,310.28	2,638.45	2,564.94	73.52	35.889		
8,000.00	6,638.40	6,751.66	6,577.06	87.53	32.41	29.68	1,747.14	6,309.66	2,580.52	2,505.54	74.99	34.412		
8,100.00	6,716.52	6,822.34	6,647.74	88.86	32.59	30.27	1,747.43	6,309.22	2,523.07	2,446.57	76.50	32.983		
8,200.00	6,794.63	6,893.99	6,719.39	90.20	32.76	30.91	1,747.50	6,308.96	2,466.08	2,388.02	78.05	31.594		
8,300.00	6,872.75	6,966.84	6,792.24	91.53	32.94	31.58	1,747.32	6,308.88	2,409.56	2,329.89	79.67	30.246		
8,400.00	6,950.87	7,042.07	6,867.46	92.86	33.12	32.32	1,746.92	6,308.90	2,353.47	2,272.14	81.33	28.938		
8,500.00	7,028.98	7,117.95	6,943.35	94.19	33.30	33.10	1,746.26	6,308.99	2,297.80	2,214.74	83.06	27.666		
8,600.00	7,107.10	7,192.88	7,018.27	95.52	33.48	33.90	1,745.35	6,309.15	2,242.58	2,157.72	84.86	26.428		
8,647.91	7,144.53	7,228.61	7,054.00	96.16	33.56	34.30	1,744.88	6,309.26	2,216.30	2,130.56	85.75	25.847		
8,650.00	7,146.16	7,230.17	7,055.56	96.18	33.57	33.94	1,744.86	6,309.26	2,215.16	2,129.37	85.78	25.822		
8,700.00	7,185.66	7,272.00	7,097.38	96.84	33.67	24.92	1,744.32	6,309.39	2,187.37	2,100.76	86.61	25.254		
8,750.00	7,225.78	7,314.96	7,140.34	97.47	33.77	15.19	1,743.82	6,309.47	2,158.88	2,071.62	87.26	24.741		
8,800.00	7,266.21	7,356.28	7,181.66	98.08	33.87	4.95	1,743.37	6,309.51	2,129.85	2,042.14	87.72	24.281		
8,850.00	7,306.63	7,396.79	7,222.17	98.64	33.97	-5.51	1,742.88	6,309.54	2,100.52	2,012.55	87.97	23.878		
8,900.00	7,346.75	7,436.18	7,261.55	99.17	34.07	-15.89	1,742.33	6,309.57	2,071.11	1,983.10	88.01	23.532		
8,950.00	7,386.25	7,473.77	7,299.13	99.64	34.16	-25.91	1,741.74	6,309.63	2,041.91	1,954.07	87.84	23.246		
9,000.00	7,424.84	7,510.66	7,336.01	100.06	34.25	-35.38	1,741.08	6,309.71	2,013.19	1,925.74	87.45	23.022		
9,050.00	7,462.22	7,545.99	7,371.34	100.42	34.33	-44.16	1,740.42	6,309.83	1,985.25	1,898.41	86.84	22.861		
9,100.00	7,498.11	7,579.97	7,405.32	100.74	34.42	-52.16	1,739.79	6,309.98	1,958.42	1,872.40	86.02	22.768		
9,150.00	7,532.24	7,612.54	7,437.88	100.99	34.50	-59.35	1,739.19	6,310.18	1,933.04	1,848.05	84.99	22.743 SF		
9,200.00	7,564.34	7,644.01	7,469.35	101.19	34.58	-65.74	1,738.63	6,310.39	1,909.44	1,825.66	83.78	22.790		
9,250.00	7,594.17	7,673.37	7,498.70	101.34	34.65	-71.33	1,738.11	6,310.60	1,887.97	1,805.55	82.42	22.907		
9,300.00	7,621.50	7,700.37	7,525.70	101.45	34.72	-76.14	1,737.64	6,310.82	1,868.98	1,788.06	80.93	23.095		
9,350.00	7,646.13	7,722.40	7,547.72	101.50	34.77	-80.12	1,737.26	6,311.02	1,852.82	1,773.45	79.37	23.344		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,741.82	7,567.13	101.51	34.82	-83.39	1,736.94	6,311.24	1,839.82	1,762.04	77.78	23.655		
9,450.00	7,686.55	7,758.63	7,583.94	101.48	34.86	-85.97	1,736.67	6,311.45	1,830.22	1,754.02	76.20	24.019		
9,500.00	7,702.04	7,772.69	7,598.00	101.42	34.90	-87.89	1,736.44	6,311.65	1,824.25	1,749.56	74.69	24.424		
9,550.00	7,714.20	7,783.90	7,609.21	101.33	34.93	-89.16	1,736.26	6,311.82	1,822.06	1,748.76	73.31	24.856 ES		
9,553.37	7,714.90	7,784.55	7,609.86	101.32	34.93	-89.23	1,736.25	6,311.83	1,822.05	1,748.84	73.22	24.885 CC		
9,600.00	7,722.96	7,792.15	7,617.46	101.20	34.95	-89.81	1,736.13	6,311.95	1,823.75	1,751.66	72.09	25.298		
9,650.00	7,728.24	7,797.71	7,623.01	101.06	34.96	-89.85	1,736.05	6,312.04	1,829.33	1,758.25	71.08	25.737		
9,699.97	7,730.00	7,800.40	7,625.70	100.90	34.97	-89.25	1,736.01	6,312.08	1,838.76	1,768.46	70.30	26.157		
9,800.00	7,730.00	7,802.05	7,627.36	100.56	34.98	-89.31	1,735.98	6,312.11	1,863.95	1,794.49	69.47	26.832		
9,900.00	7,730.00	7,803.73	7,629.03	100.24	34.98	-89.36	1,735.95	6,312.14	1,894.10	1,824.51	69.59	27.220		
10,000.00	7,730.00	7,805.43	7,630.74	99.93	34.98	-89.42	1,735.93	6,312.17	1,928.95	1,858.42	70.54	27.347		
10,100.00	7,730.00	7,807.16	7,632.46	99.64	34.99	-89.47	1,735.90	6,312.20	1,968.28	1,896.13	72.15	27.279		
10,200.00	7,730.00	7,808.91	7,634.21	99.36	34.99	-89.53	1,735.87	6,312.22	2,011.81	1,937.54	74.27	27.089		
10,300.00	7,730.00	7,810.68	7,635.98	99.09	35.00	-89.58	1,735.84	6,312.25	2,059.28	1,982.57	76.71	26.844		
10,400.00	7,730.00	7,812.47	7,637.77	98.84	35.00	-89.64	1,735.81	6,312.28	2,110.42	2,031.06	79.36	26.593		
10,500.00	7,730.00	7,814.29	7,639.59	98.61	35.01	-89.70	1,735.78	6,312.31	2,164.98	2,082.87	82.11	26.367		
10,600.00	7,730.00	7,816.14	7,641.44	98.39	35.01	-89.76	1,735.75	6,312.34	2,222.69	2,137.81	84.88	26.186		
10,700.00	7,730.00	7,818.01	7,643.31	98.18	35.02	-89.82	1,735.72	6,312.37	2,283.33	2,195.70	87.63	26.057		
10,800.00	7,730.00	7,819.91	7,645.21	97.99	35.02	-89.88	1,735.69	6,312.40	2,346.66	2,256.34	90.31	25.984		
10,900.00	7,730.00	7,821.84	7,647.13	97.81	35.03	-89.94	1,735.66	6,312.44	2,412.47	2,319.56	92.91	25.967		
11,000.00	7,730.00	7,823.79	7,649.09	97.64	35.03	-90.00	1,735.62	6,312.47	2,480.57	2,385.17	95.40	26.003		
11,100.00	7,730.00	7,825.77	7,651.07	97.50	35.04	-90.07	1,735.59	6,312.50	2,550.77	2,452.99	97.78	26.088		
11,200.00	7,730.00	7,827.78	7,653.08	97.36	35.04	-90.13	1,735.55	6,312.53	2,622.90	2,522.86	100.04	26.219		
11,300.00	7,730.00	7,829.82	7,655.12	97.24	35.05	-90.20	1,735.52	6,312.57	2,696.81	2,594.63	102.18	26.392		
11,400.00	7,730.00	7,831.89	7,657.19	97.14	35.05	-90.26	1,735.48	6,312.60	2,772.36	2,668.15	104.21	26.602		
11,500.00	7,730.00	7,833.99	7,659.29	97.06	35.06	-90.33	1,735.44	6,312.63	2,849.41	2,743.28	106.13	26.847		
11,600.00	7,730.00	7,836.12	7,661.42	96.98	35.06	-90.40	1,735.41	6,312.67	2,927.85	2,819.91	107.95	27.123		
11,700.00	7,730.00	7,838.29	7,663.58	96.93	35.07	-90.47	1,735.37	6,312.70	3,007.57	2,897.91	109.66	27.427		
11,800.00	7,730.00	7,840.49	7,665.78	96.90	35.07	-90.54	1,735.33	6,312.74	3,088.47	2,977.20	111.27	27.756		
11,900.00	7,730.00	7,842.72	7,668.01	96.88	35.08	-90.61	1,735.29	6,312.77	3,170.45	3,057.66	112.79	28.109		
12,000.00	7,730.00	7,844.98	7,670.27	96.88	35.09	-90.68	1,735.25	6,312.81	3,253.44	3,139.22	114.23	28.482		
12,100.00	7,730.00	7,847.28	7,672.57	96.90	35.09	-90.75	1,735.20	6,312.85	3,337.37	3,221.78	115.58	28.874		
12,200.00	7,730.00	7,849.62	7,674.91	96.94	35.10	-90.83	1,735.16	6,312.88	3,422.15	3,305.29	116.86	29.283		
12,300.00	7,730.00	7,852.00	7,677.28	97.00	35.10	-90.90	1,735.11	6,312.92	3,507.74	3,389.67	118.07	29.708		
12,400.00	7,730.00	7,854.41	7,679.69	97.08	35.11	-90.98	1,735.07	6,312.96	3,594.07	3,474.85	119.22	30.147		
12,500.00	7,730.00	7,856.86	7,682.14	97.18	35.12	-91.06	1,735.02	6,313.00	3,681.09	3,560.79	120.30	30.600		
12,600.00	7,730.00	7,859.35	7,684.63	97.31	35.12	-91.14	1,734.97	6,313.04	3,768.75	3,647.43	121.32	31.064		
12,700.00	7,730.00	7,861.88	7,687.16	97.46	35.13	-91.22	1,734.92	6,313.08	3,857.02	3,734.73	122.29	31.539		
12,800.00	7,730.00	7,864.45	7,689.74	97.64	35.14	-91.30	1,734.87	6,313.12	3,945.84	3,822.63	123.21	32.025		
12,900.00	7,730.00	7,867.07	7,692.35	97.85	35.14	-91.39	1,734.82	6,313.16	4,035.18	3,911.10	124.08	32.520		
13,000.00	7,730.00	7,869.73	7,695.01	98.09	35.15	-91.47	1,734.77	6,313.20	4,125.01	4,000.10	124.91	33.023		
13,100.00	7,730.00	7,872.43	7,697.71	98.35	35.16	-91.56	1,734.72	6,313.24	4,215.30	4,089.60	125.70	33.534		
13,200.00	7,730.00	7,875.18	7,700.46	98.65	35.16	-91.64	1,734.66	6,313.28	4,306.02	4,179.56	126.45	34.053		
13,300.00	7,730.00	7,877.98	7,703.26	98.98	35.17	-91.73	1,734.60	6,313.33	4,397.13	4,269.97	127.17	34.578		
13,400.00	7,730.00	7,880.83	7,706.10	99.34	35.18	-91.83	1,734.54	6,313.37	4,488.63	4,360.78	127.85	35.110		
13,500.00	7,730.00	7,883.72	7,709.00	99.74	35.19	-91.92	1,734.48	6,313.42	4,580.48	4,451.98	128.50	35.647		
13,600.00	7,730.00	7,886.67	7,711.94	100.17	35.19	-92.01	1,734.42	6,313.46	4,672.66	4,543.54	129.12	36.190		
13,700.00	7,730.00	7,889.67	7,714.94	100.65	35.20	-92.11	1,734.36	6,313.51	4,765.15	4,635.45	129.71	36.738		
13,800.00	7,730.00	7,892.72	7,717.99	101.16	35.21	-92.20	1,734.29	6,313.56	4,857.95	4,727.67	130.27	37.290		
13,900.00	7,730.00	7,895.83	7,721.10	101.71	35.22	-92.30	1,734.23	6,313.60	4,951.02	4,820.20	130.81	37.847		
14,000.00	7,730.00	7,898.99	7,724.27	102.30	35.23	-92.40	1,734.16	6,313.65	5,044.35	4,913.02	131.33	38.409		
14,100.00	7,730.00	7,902.22	7,727.49	102.93	35.23	-92.51	1,734.09	6,313.70	5,137.94	5,006.10	131.83	38.974		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 138-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,905.50	7,730.77	103.60	35.24	-92.61	1,734.01	6,313.75	5,231.76	5,099.45	132.31	39.542		
14,300.00	7,730.00	7,900.01	7,725.29	104.32	35.23	-92.44	1,734.14	6,313.67	5,325.81	5,193.04	132.77	40.113		
14,400.00	7,730.00	7,901.75	7,727.02	105.07	35.23	-92.49	1,734.11	6,313.70	5,420.07	5,286.86	133.21	40.688		
14,500.00	7,730.00	7,903.47	7,728.74	105.86	35.24	-92.55	1,734.07	6,313.72	5,514.53	5,380.90	133.63	41.266		
14,600.00	7,730.00	7,905.19	7,730.46	106.70	35.24	-92.60	1,734.03	6,313.75	5,609.19	5,475.14	134.04	41.847		
14,700.00	7,730.00	7,906.89	7,732.16	107.57	35.25	-92.66	1,734.00	6,313.78	5,704.02	5,569.59	134.43	42.430		
14,800.00	7,730.00	7,908.59	7,733.86	108.48	35.25	-92.71	1,733.96	6,313.80	5,799.03	5,664.22	134.81	43.016		
14,900.00	7,730.00	7,910.27	7,735.54	109.43	35.25	-92.76	1,733.93	6,313.83	5,894.20	5,759.03	135.17	43.605		
15,000.00	7,730.00	7,911.95	7,737.22	110.42	35.26	-92.82	1,733.90	6,313.85	5,989.53	5,854.00	135.52	44.195		
15,100.00	7,730.00	7,913.61	7,738.88	111.43	35.26	-92.87	1,733.86	6,313.88	6,085.01	5,949.14	135.86	44.788		
15,200.00	7,730.00	7,915.27	7,740.54	112.49	35.27	-92.92	1,733.83	6,313.91	6,180.63	6,044.44	136.19	45.383		
15,300.00	7,730.00	7,916.92	7,742.19	113.57	35.27	-92.98	1,733.79	6,313.93	6,276.38	6,139.88	136.51	45.979		
15,400.00	7,730.00	7,918.56	7,743.82	114.68	35.28	-93.03	1,733.76	6,313.96	6,372.27	6,235.46	136.81	46.577		
15,500.00	7,730.00	7,920.19	7,745.45	115.82	35.28	-93.08	1,733.73	6,313.98	6,468.28	6,331.18	137.11	47.177		
15,600.00	7,730.00	7,921.81	7,747.07	116.99	35.28	-93.13	1,733.70	6,314.01	6,564.41	6,427.02	137.39	47.779		
15,700.00	7,730.00	7,923.42	7,748.68	118.19	35.29	-93.18	1,733.66	6,314.03	6,660.65	6,522.99	137.67	48.382		
15,800.00	7,730.00	7,925.02	7,750.29	119.41	35.29	-93.23	1,733.63	6,314.06	6,757.01	6,619.07	137.94	48.986		
15,900.00	7,730.00	7,926.62	7,751.88	120.65	35.30	-93.28	1,733.60	6,314.08	6,853.46	6,715.26	138.20	49.592		
16,000.00	7,730.00	7,928.20	7,753.46	121.91	35.30	-93.33	1,733.57	6,314.11	6,950.02	6,811.57	138.45	50.199		
16,100.00	7,730.00	7,929.78	7,755.04	123.20	35.30	-93.38	1,733.54	6,314.14	7,046.67	6,907.97	138.69	50.807		
16,200.00	7,730.00	7,931.35	7,756.61	124.50	35.31	-93.43	1,733.51	6,314.16	7,143.41	7,004.48	138.93	51.417		
16,300.00	7,730.00	7,932.90	7,758.17	125.82	35.31	-93.48	1,733.47	6,314.18	7,240.24	7,101.08	139.16	52.027		
16,400.00	7,730.00	7,934.46	7,759.72	127.16	35.32	-93.53	1,733.44	6,314.21	7,337.16	7,197.77	139.39	52.638		
16,500.00	7,730.00	7,936.00	7,761.26	128.52	35.32	-93.58	1,733.41	6,314.23	7,434.15	7,294.55	139.61	53.251		
16,600.00	7,730.00	7,937.53	7,762.79	129.89	35.32	-93.63	1,733.38	6,314.26	7,531.23	7,391.41	139.82	53.864		
16,700.00	7,730.00	7,939.06	7,764.32	131.27	35.33	-93.68	1,733.35	6,314.28	7,628.38	7,488.35	140.03	54.478		
16,800.00	7,730.00	7,940.58	7,765.84	132.67	35.33	-93.73	1,733.32	6,314.31	7,725.60	7,585.37	140.23	55.093		
16,900.00	7,730.00	7,942.09	7,767.34	134.09	35.34	-93.78	1,733.30	6,314.33	7,822.89	7,682.47	140.42	55.709		
17,000.00	7,730.00	7,943.59	7,768.85	135.51	35.34	-93.82	1,733.27	6,314.36	7,920.25	7,779.63	140.62	56.326		
17,100.00	7,730.00	7,945.08	7,770.34	136.95	35.34	-93.87	1,733.24	6,314.38	8,017.67	7,876.87	140.80	56.943		
17,200.00	7,730.00	7,946.57	7,771.82	138.40	35.35	-93.92	1,733.21	6,314.40	8,115.16	7,974.17	140.98	57.561		
17,300.00	7,730.00	7,948.05	7,773.30	139.85	35.35	-93.97	1,733.18	6,314.43	8,212.71	8,071.54	141.16	58.179		
17,400.00	7,730.00	7,949.52	7,774.77	141.32	35.36	-94.01	1,733.15	6,314.45	8,310.31	8,168.97	141.34	58.798		
17,500.00	7,730.00	7,950.98	7,776.23	142.80	35.36	-94.06	1,733.12	6,314.47	8,407.97	8,266.46	141.51	59.418		
17,600.00	7,730.00	7,952.43	7,777.69	144.28	35.36	-94.10	1,733.10	6,314.50	8,505.68	8,364.01	141.67	60.038		
17,700.00	7,730.00	7,953.88	7,779.13	145.78	35.37	-94.15	1,733.07	6,314.52	8,603.45	8,461.62	141.83	60.658		
17,800.00	7,730.00	7,955.32	7,780.57	147.28	35.37	-94.20	1,733.04	6,314.54	8,701.27	8,559.27	141.99	61.279		
17,900.00	7,730.00	7,956.75	7,782.01	148.79	35.37	-94.24	1,733.01	6,314.57	8,799.13	8,656.98	142.15	61.901		
18,000.00	7,730.00	7,958.18	7,783.43	150.31	35.38	-94.29	1,732.99	6,314.59	8,897.05	8,754.74	142.30	62.523		
18,100.00	7,730.00	7,959.59	7,784.85	151.83	35.38	-94.33	1,732.96	6,314.61	8,995.00	8,852.55	142.45	63.145		
18,200.00	7,730.00	7,961.00	7,786.26	153.37	35.39	-94.38	1,732.93	6,314.64	9,093.01	8,950.41	142.60	63.767		
18,300.00	7,730.00	7,962.41	7,787.66	154.90	35.39	-94.42	1,732.91	6,314.66	9,191.05	9,048.31	142.74	64.390		
18,400.00	7,730.00	7,963.80	7,789.05	156.45	35.39	-94.47	1,732.88	6,314.68	9,289.14	9,146.26	142.88	65.014		
18,500.00	7,730.00	7,965.19	7,790.44	158.00	35.40	-94.51	1,732.86	6,314.70	9,387.26	9,244.25	143.02	65.637		
18,600.00	7,730.00	7,966.57	7,791.82	159.55	35.40	-94.55	1,732.83	6,314.73	9,485.43	9,342.28	143.15	66.261		
18,700.00	7,730.00	7,967.95	7,793.20	161.11	35.40	-94.60	1,732.81	6,314.75	9,583.63	9,440.35	143.29	66.885		
18,800.00	7,730.00	7,969.31	7,794.56	162.68	35.41	-94.64	1,732.78	6,314.77	9,681.87	9,538.46	143.42	67.509		
18,900.00	7,730.00	7,970.67	7,795.92	164.25	35.41	-94.68	1,732.76	6,314.79	9,780.15	9,636.61	143.54	68.134		
19,000.00	7,730.00	7,972.03	7,797.28	165.83	35.41	-94.73	1,732.73	6,314.82	9,878.46	9,734.79	143.67	68.759		
19,100.00	7,730.00	7,973.37	7,798.62	167.41	35.42	-94.77	1,732.71	6,314.84	9,976.80	9,833.01	143.79	69.384		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.92	765.59	5,391.00	5,445.68					
100.00	100.00	40.25	40.25	0.13	0.05	81.92	765.63	5,390.92	5,445.06	5,444.87	0.19	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	81.91	765.78	5,390.36	5,444.52	5,443.64	0.88	6,188.474		
267.20	267.20	187.20	187.20	0.73	0.56	81.92	765.52	5,390.23	5,444.32	5,443.03	1.29	4,215.851		
300.00	300.00	205.93	205.92	0.85	0.62	81.92	765.28	5,390.29	5,444.36	5,442.89	1.47	3,693.628		
400.00	400.00	229.00	228.99	1.21	0.70	81.92	764.86	5,390.45	5,445.20	5,443.29	1.91	2,845.136		
500.00	500.00	275.23	275.19	1.57	0.87	81.94	763.69	5,391.37	5,447.11	5,444.68	2.43	2,237.869		
600.00	599.98	320.00	319.90	1.92	1.02	16.60	762.20	5,393.24	5,448.83	5,445.89	2.94	1,852.773		
700.00	699.84	320.00	319.90	2.28	1.02	16.60	762.20	5,393.24	5,448.40	5,445.11	3.29	1,654.957		
800.00	799.45	370.14	369.90	2.64	1.21	16.66	760.00	5,396.35	5,445.80	5,441.97	3.83	1,423.434		
900.00	898.70	411.00	410.56	3.02	1.36	16.73	757.74	5,399.60	5,441.13	5,436.80	4.33	1,256.997		
1,000.00	997.47	442.56	441.92	3.41	1.47	16.81	755.71	5,402.52	5,434.29	5,429.48	4.81	1,130.391		
1,100.00	1,095.62	502.00	500.85	3.84	1.70	16.95	751.23	5,408.87	5,425.34	5,419.95	5.40	1,005.286		
1,200.00	1,193.06	502.00	500.85	4.29	1.70	17.02	751.23	5,408.87	5,414.08	5,408.31	5.77	938.734		
1,300.00	1,289.64	548.44	546.77	4.78	1.89	17.18	747.43	5,414.68	5,400.70	5,394.38	6.33	853.529		
1,400.00	1,385.27	593.00	590.73	5.32	2.08	17.36	743.87	5,421.02	5,385.38	5,378.49	6.89	781.684		
1,500.00	1,479.82	593.00	590.73	5.90	2.08	17.47	743.87	5,421.02	5,368.01	5,360.73	7.29	736.715		
1,600.00	1,573.17	646.00	642.87	6.53	2.31	17.71	739.61	5,429.50	5,348.42	5,340.51	7.91	676.261		
1,700.00	1,665.21	684.00	680.14	7.23	2.48	17.94	736.48	5,436.20	5,326.87	5,318.39	8.48	627.899		
1,800.00	1,755.84	719.77	715.18	7.98	2.65	18.18	733.71	5,442.88	5,303.22	5,294.16	9.06	585.030		
1,900.00	1,844.94	776.00	770.21	8.80	2.91	18.49	730.22	5,453.87	5,277.43	5,267.68	9.74	541.563		
2,000.00	1,932.39	809.31	802.77	9.68	3.07	18.77	728.42	5,460.67	5,249.34	5,238.99	10.35	507.205		
2,100.00	2,018.11	870.00	861.98	10.63	3.36	19.15	724.93	5,473.52	5,219.02	5,207.93	11.08	470.920		
2,200.00	2,101.97	929.81	920.26	11.65	3.66	19.56	721.55	5,486.54	5,186.23	5,174.39	11.84	438.093		
2,300.00	2,183.88	1,019.14	1,007.32	12.74	4.11	20.11	717.11	5,506.08	5,150.69	5,137.96	12.73	404.732		
2,400.00	2,263.74	1,113.45	1,099.28	13.90	4.58	20.71	712.97	5,526.55	5,112.13	5,098.46	13.66	374.209		
2,431.61	2,288.54	1,142.26	1,127.38	14.29	4.73	20.91	711.78	5,532.78	5,099.32	5,085.36	13.96	365.305		
2,500.00	2,341.97	1,200.32	1,184.01	15.13	5.03	21.12	709.25	5,545.35	5,071.35	5,056.76	14.59	347.683		
2,600.00	2,420.08	1,273.27	1,255.09	16.37	5.40	21.39	705.30	5,561.27	5,030.65	5,015.18	15.47	325.154		
2,700.00	2,498.20	1,339.00	1,319.00	17.63	5.75	21.65	700.91	5,575.99	4,990.52	4,974.17	16.35	305.252		
2,800.00	2,576.32	1,411.56	1,389.46	18.89	6.14	21.95	695.61	5,592.52	4,950.88	4,933.61	17.28	286.586		
2,900.00	2,654.43	1,476.07	1,452.06	20.17	6.49	22.21	690.92	5,607.35	4,911.65	4,893.47	18.18	270.117		
3,000.00	2,732.55	1,535.23	1,509.41	21.45	6.82	22.46	686.81	5,621.28	4,873.08	4,854.00	19.08	255.356		
3,100.00	2,810.67	1,594.54	1,566.82	22.74	7.15	22.71	682.63	5,635.58	4,835.21	4,815.21	20.00	241.767		
3,200.00	2,888.78	1,729.85	1,697.81	24.03	7.90	23.28	673.09	5,668.11	4,797.53	4,776.28	21.25	225.728		
3,300.00	2,966.90	1,814.94	1,780.33	25.33	8.37	23.64	667.43	5,688.06	4,759.44	4,737.14	22.30	213.387		
3,400.00	3,045.02	1,895.97	1,858.92	26.63	8.82	23.99	662.30	5,707.12	4,721.64	4,698.29	23.35	202.213		
3,500.00	3,123.13	2,017.86	1,977.31	27.94	9.48	24.50	655.77	5,735.34	4,683.68	4,659.11	24.57	190.624		
3,600.00	3,201.25	2,104.28	2,061.35	29.24	9.95	24.87	651.76	5,755.11	4,645.69	4,620.04	25.65	181.091		
3,700.00	3,279.37	2,194.93	2,149.50	30.55	10.44	25.26	647.28	5,775.80	4,607.84	4,581.06	26.77	172.126		
3,800.00	3,357.49	2,271.08	2,223.45	31.86	10.86	25.60	642.42	5,793.26	4,570.28	4,542.43	27.85	164.113		
3,900.00	3,435.60	2,378.02	2,327.29	33.18	11.44	26.11	634.85	5,817.69	4,532.89	4,503.81	29.07	155.905		
4,000.00	3,513.72	2,461.00	2,407.95	34.49	11.90	26.51	628.94	5,836.26	4,495.32	4,465.11	30.21	148.782		
4,100.00	3,591.84	2,525.66	2,470.75	35.81	12.25	26.82	624.23	5,850.92	4,458.30	4,427.00	31.29	142.472		
4,200.00	3,669.95	2,600.95	2,543.74	37.12	12.67	27.19	618.98	5,868.62	4,422.17	4,389.74	32.43	136.368		
4,300.00	3,748.07	4,300.00	2,760.88	38.44	21.47	28.27	606.07	5,917.40	4,384.66	4,344.62	40.04	109.506		
4,400.00	3,826.19	2,877.53	2,813.29	39.76	14.14	28.54	602.99	5,928.35	4,346.38	4,311.14	35.24	123.320		
4,500.00	3,904.30	2,928.00	2,862.38	41.08	14.41	28.80	599.40	5,939.52	4,309.59	4,273.26	36.32	118.647		
4,600.00	3,982.42	2,964.36	2,897.65	42.40	14.61	29.00	596.72	5,947.92	4,273.85	4,236.49	37.36	114.409		
4,700.00	4,060.54	3,057.59	2,988.18	43.72	15.13	29.47	591.16	5,969.50	4,238.64	4,200.00	38.64	109.697		
4,800.00	4,138.66	3,153.34	3,081.23	45.05	15.65	29.97	586.05	5,991.51	4,203.49	4,163.55	39.95	105.231		
4,900.00	4,216.77	3,263.91	3,188.70	46.37	16.25	30.55	579.33	6,016.62	4,168.46	4,127.12	41.33	100.847		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,353.26	3,275.69	47.69	16.74	31.03	574.39	6,036.41	4,133.13	4,090.48	42.65	96.912		
5,100.00	4,373.01	3,421.12	3,341.71	49.02	17.10	31.39	571.06	6,051.74	4,098.42	4,054.53	43.89	93.388		
5,200.00	4,451.12	3,491.00	3,409.60	50.34	17.48	31.78	567.08	6,067.82	4,064.42	4,019.27	45.15	90.016		
5,300.00	4,529.24	3,568.41	3,484.71	51.67	17.92	32.22	561.63	6,085.75	4,031.03	3,984.55	46.48	86.726		
5,400.00	4,607.36	3,704.44	3,616.81	52.99	18.66	33.02	551.55	6,116.61	3,997.61	3,949.52	48.09	83.122		
5,500.00	4,685.47	3,843.88	3,752.69	54.32	19.41	33.85	542.61	6,146.59	3,963.33	3,913.61	49.72	79.709		
5,600.00	4,763.59	3,940.08	3,846.65	55.64	19.91	34.41	537.84	6,166.64	3,928.61	3,877.44	51.17	76.773		
5,700.00	4,841.71	4,013.90	3,918.76	56.97	20.29	34.84	534.89	6,182.19	3,894.28	3,841.74	52.54	74.115		
5,800.00	4,919.83	4,084.04	3,987.19	58.30	20.66	35.26	531.41	6,197.17	3,860.66	3,806.73	53.93	71.593		
5,900.00	4,997.94	4,248.83	4,148.04	59.62	21.52	36.27	523.23	6,232.01	3,827.64	3,771.92	55.72	68.691		
6,000.00	5,076.06	6,000.00	4,945.10	60.95	27.18	41.65	500.49	6,319.81	3,788.94	3,726.93	62.01	61.100		
6,100.00	5,154.18	5,196.56	5,089.31	62.28	25.00	42.70	501.45	6,320.31	3,738.05	3,677.62	60.44	61.852		
6,200.00	5,232.29	5,273.88	5,166.62	63.61	25.19	43.29	501.85	6,320.12	3,687.25	3,625.37	61.88	59.589		
6,300.00	5,310.41	5,355.42	5,248.16	64.93	25.38	43.91	502.42	6,319.87	3,636.74	3,573.39	63.35	57.406		
6,400.00	5,388.53	5,448.81	5,341.54	66.26	25.61	44.65	503.42	6,319.44	3,586.41	3,521.56	64.85	55.302		
6,500.00	5,466.64	5,529.59	5,422.31	67.59	25.81	45.30	504.38	6,318.84	3,536.25	3,469.87	66.38	53.273		
6,600.00	5,544.76	5,609.28	5,502.00	68.92	26.00	45.95	505.30	6,318.22	3,486.45	3,418.51	67.94	51.317		
6,700.00	5,622.88	5,692.72	5,585.43	70.25	26.20	46.66	506.17	6,317.46	3,437.00	3,367.47	69.53	49.432		
6,800.00	5,701.00	5,780.01	5,672.72	71.58	26.41	47.42	506.77	6,316.38	3,387.82	3,316.67	71.16	47.611		
6,900.00	5,779.11	5,868.81	5,761.50	72.91	26.62	48.22	507.39	6,314.99	3,338.86	3,266.05	72.82	45.853		
7,000.00	5,857.23	5,955.20	5,847.87	74.23	26.83	49.02	507.98	6,313.34	3,290.13	3,215.62	74.51	44.156		
7,100.00	5,935.35	6,035.25	5,927.90	75.56	27.02	49.78	508.47	6,311.64	3,241.78	3,165.53	76.24	42.518		
7,200.00	6,013.46	6,108.00	6,000.64	76.89	27.20	50.49	508.94	6,310.13	3,194.00	3,115.98	78.02	40.939		
7,300.00	6,091.58	6,179.79	6,072.41	78.22	27.37	51.20	509.31	6,308.72	3,146.90	3,067.07	79.83	39.420		
7,400.00	6,169.70	6,256.22	6,148.83	79.55	27.56	51.98	509.44	6,307.24	3,100.49	3,018.80	81.68	37.957		
7,500.00	6,247.81	6,326.93	6,219.52	80.88	27.74	52.73	509.40	6,305.80	3,054.71	2,971.13	83.58	36.548		
7,600.00	6,325.93	6,387.39	6,279.98	82.21	27.89	53.37	509.22	6,304.82	3,009.94	2,924.42	85.52	35.195		
7,700.00	6,404.05	6,438.36	6,330.94	83.54	28.03	53.93	509.01	6,304.35	2,966.41	2,878.91	87.50	33.901		
7,800.00	6,482.17	6,488.00	6,380.58	84.87	28.16	54.47	508.82	6,304.39	2,924.31	2,834.80	89.51	32.669		
7,900.00	6,560.28	6,541.68	6,434.26	86.20	28.32	55.06	508.57	6,304.96	2,883.66	2,792.10	91.56	31.494		
8,000.00	6,638.40	6,617.05	6,509.61	87.53	28.55	55.90	508.08	6,306.35	2,844.39	2,750.74	93.66	30.370		
8,100.00	6,716.52	6,722.93	6,615.49	88.86	28.86	57.12	507.49	6,307.32	2,805.19	2,709.38	95.81	29.278		
8,200.00	6,794.63	6,807.35	6,699.90	90.20	29.10	58.11	507.04	6,307.71	2,766.54	2,668.55	97.99	28.233		
8,300.00	6,872.75	6,890.10	6,782.65	91.53	29.34	59.12	506.49	6,307.81	2,728.58	2,628.38	100.20	27.230		
8,400.00	6,950.87	6,966.33	6,858.88	92.86	29.55	60.06	505.96	6,307.85	2,691.50	2,589.06	102.45	26.272		
8,500.00	7,028.98	7,032.69	6,925.24	94.19	29.74	60.90	505.37	6,308.03	2,655.60	2,550.88	104.72	25.359		
8,600.00	7,107.10	7,111.28	7,003.82	95.52	29.97	61.90	504.53	6,308.40	2,620.92	2,513.88	107.04	24.486		
8,647.91	7,144.53	7,150.95	7,043.48	96.16	30.09	62.42	504.14	6,308.55	2,604.62	2,496.46	108.16	24.082		
8,650.00	7,146.16	7,152.68	7,045.22	96.18	30.09	62.14	504.12	6,308.56	2,603.91	2,495.71	108.21	24.064		
8,700.00	7,185.66	7,189.68	7,082.21	96.84	30.20	54.97	503.74	6,308.70	2,585.69	2,476.37	109.32	23.653		
8,750.00	7,225.78	7,228.24	7,120.77	97.47	30.31	47.09	503.31	6,308.86	2,565.03	2,454.71	110.32	23.250		
8,800.00	7,266.21	7,270.92	7,163.44	98.08	30.44	38.67	502.81	6,309.02	2,542.00	2,430.79	111.21	22.857		
8,850.00	7,306.63	7,314.46	7,206.99	98.64	30.56	29.88	502.25	6,309.08	2,516.64	2,404.67	111.97	22.476		
8,900.00	7,346.75	7,355.96	7,248.48	99.17	30.68	20.88	501.68	6,309.07	2,489.09	2,376.50	112.59	22.109		
8,950.00	7,386.25	7,395.95	7,288.47	99.64	30.80	11.85	501.16	6,309.07	2,459.56	2,346.49	113.07	21.753		
9,000.00	7,424.84	7,435.07	7,327.58	100.06	30.91	2.86	500.67	6,309.08	2,428.22	2,314.83	113.39	21.414		
9,050.00	7,462.22	7,473.01	7,365.53	100.42	31.02	-6.06	500.23	6,309.10	2,395.31	2,281.75	113.56	21.092		
9,100.00	7,498.11	7,509.49	7,402.00	100.74	31.13	-14.91	499.84	6,309.14	2,361.08	2,247.51	113.57	20.789		
9,150.00	7,532.24	7,545.72	7,438.23	100.99	31.23	-23.72	499.47	6,309.18	2,325.80	2,212.37	113.42	20.505		
9,200.00	7,564.34	7,580.16	7,472.67	101.19	31.34	-32.45	499.17	6,309.21	2,289.76	2,176.66	113.11	20.244		
9,250.00	7,594.17	7,612.13	7,504.63	101.34	31.43	-41.02	498.93	6,309.23	2,253.32	2,140.69	112.63	20.007		
9,300.00	7,621.50	7,636.91	7,529.41	101.45	31.50	-49.19	498.76	6,309.27	2,216.86	2,104.88	111.98	19.797		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,659.59	7,552.09	101.50	31.57	-56.87	498.61	6,309.33	2,180.79	2,069.62	111.17	19.617		
9,400.00	7,667.87	7,679.67	7,572.17	101.51	31.63	-63.92	498.48	6,309.41	2,145.50	2,035.30	110.20	19.470		
9,450.00	7,686.55	7,711.70	7,588.80	101.48	31.73	-70.20	498.38	6,309.49	2,111.37	2,002.26	109.12	19.350		
9,500.00	7,702.04	7,712.14	7,604.64	101.42	31.73	-75.73	498.28	6,309.59	2,078.83	1,971.05	107.78	19.288		
9,550.00	7,714.20	7,724.66	7,617.16	101.33	31.77	-80.40	498.20	6,309.67	2,048.24	1,941.89	106.35	19.259 SF		
9,600.00	7,722.96	7,733.75	7,626.26	101.20	31.79	-84.22	498.14	6,309.72	2,020.01	1,915.22	104.79	19.276		
9,650.00	7,728.24	7,739.37	7,631.87	101.06	31.81	-87.24	498.11	6,309.76	1,994.51	1,891.39	103.12	19.342		
9,699.97	7,730.00	7,741.45	7,633.95	100.90	31.82	-89.49	498.09	6,309.77	1,972.06	1,870.71	101.35	19.458		
9,800.00	7,730.00	7,742.08	7,634.58	100.56	31.82	-89.51	498.09	6,309.77	1,932.53	1,834.87	97.66	19.787		
9,900.00	7,730.00	7,742.70	7,635.20	100.24	31.82	-89.53	498.08	6,309.78	1,897.47	1,803.59	93.88	20.212		
10,000.00	7,730.00	7,743.33	7,635.83	99.93	31.82	-89.55	498.08	6,309.78	1,867.10	1,777.05	90.05	20.733		
10,100.00	7,730.00	7,743.95	7,636.45	99.64	31.82	-89.57	498.08	6,309.78	1,841.68	1,755.41	86.27	21.348		
10,200.00	7,730.00	7,744.58	7,637.08	99.36	31.83	-89.59	498.07	6,309.79	1,821.39	1,738.76	82.63	22.043		
10,300.00	7,730.00	7,745.20	7,637.71	99.09	31.83	-89.61	498.07	6,309.79	1,806.42	1,727.16	79.26	22.790		
10,400.00	7,730.00	7,745.83	7,638.33	98.84	31.83	-89.63	498.06	6,309.79	1,796.90	1,720.58	76.32	23.543		
10,500.00	7,730.00	7,746.45	7,638.96	98.61	31.83	-89.65	498.06	6,309.80	1,792.91	1,718.95	73.97	24.239 ES		
10,521.55	7,730.00	7,746.59	7,639.09	98.56	31.83	-89.65	498.06	6,309.80	1,792.78	1,719.23	73.56	24.372 CC		
10,600.00	7,730.00	7,747.08	7,639.58	98.39	31.83	-89.67	498.06	6,309.80	1,794.50	1,722.15	72.35	24.802		
10,700.00	7,730.00	7,747.71	7,640.21	98.18	31.84	-89.69	498.05	6,309.81	1,801.64	1,730.06	71.59	25.167		
10,800.00	7,730.00	7,748.33	7,640.83	97.99	31.84	-89.71	498.05	6,309.81	1,814.28	1,742.56	71.72	25.296		
10,900.00	7,730.00	7,748.96	7,641.46	97.81	31.84	-89.73	498.05	6,309.81	1,832.29	1,759.58	72.72	25.198		
11,000.00	7,730.00	7,749.58	7,642.08	97.64	31.84	-89.75	498.04	6,309.82	1,855.53	1,781.06	74.47	24.917		
11,100.00	7,730.00	7,750.21	7,642.71	97.50	31.84	-89.77	498.04	6,309.82	1,883.79	1,806.97	76.82	24.522		
11,200.00	7,730.00	7,750.83	7,643.34	97.36	31.85	-89.79	498.03	6,309.82	1,916.86	1,837.25	79.61	24.079		
11,300.00	7,730.00	7,751.46	7,643.96	97.24	31.85	-89.81	498.03	6,309.83	1,954.49	1,871.81	82.68	23.640		
11,400.00	7,730.00	7,752.08	7,644.59	97.14	31.85	-89.83	498.03	6,309.83	1,996.43	1,910.52	85.90	23.240		
11,500.00	7,730.00	7,752.71	7,645.21	97.06	31.85	-89.85	498.02	6,309.84	2,042.40	1,953.22	89.18	22.901		
11,600.00	7,730.00	7,753.34	7,645.84	96.98	31.85	-89.87	498.02	6,309.84	2,092.15	1,999.71	92.44	22.632		
11,700.00	7,730.00	7,753.96	7,646.46	96.93	31.85	-89.89	498.01	6,309.84	2,145.41	2,049.79	95.62	22.437		
11,800.00	7,730.00	7,754.59	7,647.09	96.90	31.86	-89.91	498.01	6,309.85	2,201.92	2,103.24	98.69	22.313		
11,900.00	7,730.00	7,755.21	7,647.71	96.88	31.86	-89.93	498.01	6,309.85	2,261.45	2,159.83	101.61	22.256		
12,000.00	7,730.00	7,755.84	7,648.34	96.88	31.86	-89.95	498.00	6,309.86	2,323.75	2,219.36	104.39	22.261		
12,100.00	7,730.00	7,756.46	7,648.97	96.90	31.86	-89.97	498.00	6,309.86	2,388.62	2,281.61	107.01	22.322		
12,200.00	7,730.00	7,757.09	7,649.59	96.94	31.86	-89.99	497.99	6,309.86	2,455.85	2,346.38	109.47	22.435		
12,300.00	7,730.00	7,757.71	7,650.22	97.00	31.87	-90.01	497.99	6,309.87	2,525.24	2,413.47	111.77	22.593		
12,400.00	7,730.00	7,758.34	7,650.84	97.08	31.87	-90.03	497.99	6,309.87	2,596.64	2,482.71	113.92	22.793		
12,500.00	7,730.00	7,758.97	7,651.47	97.18	31.87	-90.05	497.98	6,309.87	2,669.87	2,553.94	115.93	23.029		
12,600.00	7,730.00	7,759.59	7,652.09	97.31	31.87	-90.07	497.98	6,309.88	2,744.79	2,626.99	117.81	23.299		
12,700.00	7,730.00	7,760.22	7,652.72	97.46	31.87	-90.09	497.97	6,309.88	2,821.27	2,701.72	119.55	23.599		
12,800.00	7,730.00	7,760.84	7,653.34	97.64	31.88	-90.11	497.97	6,309.89	2,899.18	2,778.00	121.18	23.925		
12,900.00	7,730.00	7,761.47	7,653.97	97.85	31.88	-90.13	497.97	6,309.89	2,978.41	2,855.72	122.69	24.276		
13,000.00	7,730.00	7,762.09	7,654.59	98.09	31.88	-90.15	497.96	6,309.89	3,058.85	2,934.75	124.10	24.648		
13,100.00	7,730.00	7,762.72	7,655.22	98.35	31.88	-90.17	497.96	6,309.90	3,140.42	3,015.00	125.42	25.040		
13,200.00	7,730.00	7,763.34	7,655.85	98.65	31.88	-90.19	497.95	6,309.90	3,223.03	3,096.38	126.64	25.449		
13,300.00	7,730.00	7,763.97	7,656.47	98.98	31.89	-90.21	497.95	6,309.90	3,306.60	3,178.81	127.79	25.875		
13,400.00	7,730.00	7,764.60	7,657.10	99.34	31.89	-90.23	497.95	6,309.91	3,391.06	3,262.19	128.86	26.316		
13,500.00	7,730.00	7,765.22	7,657.72	99.74	31.89	-90.25	497.94	6,309.91	3,476.34	3,346.48	129.86	26.769		
13,600.00	7,730.00	7,765.85	7,658.35	100.17	31.89	-90.27	497.94	6,309.92	3,562.39	3,431.59	130.80	27.236		
13,700.00	7,730.00	7,766.47	7,658.97	100.65	31.89	-90.29	497.94	6,309.92	3,649.14	3,517.47	131.68	27.713		
13,800.00	7,730.00	7,767.10	7,659.60	101.16	31.89	-90.31	497.93	6,309.92	3,736.57	3,604.07	132.50	28.201		
13,900.00	7,730.00	7,767.72	7,660.22	101.71	31.90	-90.33	497.93	6,309.93	3,824.60	3,691.33	133.27	28.698		
14,000.00	7,730.00	7,768.35	7,660.85	102.30	31.90	-90.35	497.92	6,309.93	3,913.21	3,779.22	134.00	29.203		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 47-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,768.97	7,661.48	102.93	31.90	-90.37	497.92	6,309.93	4,002.36	3,867.68	134.68	29.717		
14,200.00	7,730.00	7,769.60	7,662.10	103.60	31.90	-90.39	497.92	6,309.94	4,092.01	3,956.69	135.33	30.238		
14,300.00	7,730.00	7,770.23	7,662.73	104.32	31.90	-90.41	497.91	6,309.94	4,182.13	4,046.20	135.93	30.766		
14,400.00	7,730.00	7,770.85	7,663.35	105.07	31.91	-90.43	497.91	6,309.95	4,272.69	4,136.19	136.51	31.300		
14,500.00	7,730.00	7,771.48	7,663.98	105.86	31.91	-90.45	497.90	6,309.95	4,363.66	4,226.62	137.05	31.841		
14,600.00	7,730.00	7,772.10	7,664.60	106.70	31.91	-90.47	497.90	6,309.95	4,455.02	4,317.46	137.56	32.386		
14,700.00	7,730.00	7,772.73	7,665.23	107.57	31.91	-90.49	497.90	6,309.96	4,546.74	4,408.70	138.04	32.937		
14,800.00	7,730.00	7,773.35	7,665.85	108.48	31.91	-90.51	497.89	6,309.96	4,638.81	4,500.30	138.50	33.492		
14,900.00	7,730.00	7,773.98	7,666.48	109.43	31.92	-90.53	497.89	6,309.97	4,731.19	4,592.25	138.94	34.052		
15,000.00	7,730.00	7,774.60	7,667.11	110.42	31.92	-90.55	497.88	6,309.97	4,823.88	4,684.53	139.35	34.616		
15,100.00	7,730.00	7,775.23	7,667.73	111.43	31.92	-90.57	497.88	6,309.97	4,916.86	4,777.11	139.75	35.184		
15,200.00	7,730.00	7,775.86	7,668.36	112.49	31.92	-90.59	497.88	6,309.98	5,010.11	4,869.99	140.12	35.756		
15,300.00	7,730.00	7,776.48	7,668.98	113.57	31.92	-90.61	497.87	6,309.98	5,103.61	4,963.13	140.48	36.331		
15,400.00	7,730.00	7,777.11	7,669.61	114.68	31.93	-90.63	497.87	6,309.98	5,197.35	5,056.53	140.82	36.909		
15,500.00	7,730.00	7,777.73	7,670.23	115.82	31.93	-90.65	497.86	6,309.99	5,291.32	5,150.18	141.14	37.490		
15,600.00	7,730.00	7,778.36	7,670.86	116.99	31.93	-90.67	497.86	6,309.99	5,385.51	5,244.06	141.45	38.073		
15,700.00	7,730.00	7,778.98	7,671.48	118.19	31.93	-90.69	497.86	6,310.00	5,479.91	5,338.16	141.75	38.660		
15,800.00	7,730.00	7,779.61	7,672.11	119.41	31.93	-90.71	497.85	6,310.00	5,574.50	5,432.47	142.03	39.249		
15,900.00	7,730.00	7,780.23	7,672.74	120.65	31.93	-90.73	497.85	6,310.00	5,669.28	5,526.98	142.30	39.840		
16,000.00	7,730.00	7,780.86	7,673.36	121.91	31.94	-90.75	497.84	6,310.01	5,764.23	5,621.67	142.56	40.433		
16,100.00	7,730.00	7,781.49	7,673.99	123.20	31.94	-90.77	497.84	6,310.01	5,859.35	5,716.54	142.81	41.029		
16,200.00	7,730.00	7,782.11	7,674.61	124.50	31.94	-90.79	497.84	6,310.01	5,954.63	5,811.58	143.05	41.626		
16,300.00	7,730.00	7,782.74	7,675.24	125.82	31.94	-90.81	497.83	6,310.02	6,050.07	5,906.79	143.28	42.226		
16,400.00	7,730.00	7,783.36	7,675.86	127.16	31.94	-90.83	497.83	6,310.02	6,145.65	6,002.14	143.50	42.827		
16,500.00	7,730.00	7,783.99	7,676.49	128.52	31.95	-90.85	497.83	6,310.03	6,241.36	6,097.65	143.71	43.429		
16,600.00	7,730.00	7,784.61	7,677.11	129.89	31.95	-90.87	497.82	6,310.03	6,337.21	6,193.29	143.92	44.033		
16,700.00	7,730.00	7,785.24	7,677.74	131.27	31.95	-90.89	497.82	6,310.03	6,433.19	6,289.07	144.12	44.639		
16,800.00	7,730.00	7,785.86	7,678.36	132.67	31.95	-90.91	497.81	6,310.04	6,529.28	6,384.98	144.31	45.246		
16,900.00	7,730.00	7,786.49	7,678.99	134.09	31.95	-90.93	497.81	6,310.04	6,625.49	6,481.00	144.49	45.854		
17,000.00	7,730.00	7,787.12	7,679.62	135.51	31.96	-90.95	497.81	6,310.04	6,721.82	6,577.15	144.67	46.464		
17,100.00	7,730.00	7,787.74	7,680.24	136.95	31.96	-90.97	497.80	6,310.05	6,818.24	6,673.41	144.84	47.075		
17,200.00	7,730.00	7,788.37	7,680.87	138.40	31.96	-90.99	497.80	6,310.05	6,914.77	6,769.77	145.00	47.687		
17,300.00	7,730.00	7,788.99	7,681.49	139.85	31.96	-91.01	497.79	6,310.06	7,011.40	6,866.23	145.16	48.300		
17,400.00	7,730.00	7,789.62	7,682.12	141.32	31.96	-91.03	497.79	6,310.06	7,108.12	6,962.80	145.32	48.913		
17,500.00	7,730.00	7,790.24	7,682.74	142.80	31.97	-91.05	497.79	6,310.06	7,204.93	7,059.46	145.47	49.528		
17,600.00	7,730.00	7,790.87	7,683.37	144.28	31.97	-91.07	497.78	6,310.07	7,301.82	7,156.21	145.62	50.144		
17,700.00	7,730.00	7,791.49	7,683.99	145.78	31.97	-91.09	497.78	6,310.07	7,398.80	7,253.04	145.76	50.761		
17,800.00	7,730.00	7,792.12	7,684.62	147.28	31.97	-91.11	497.77	6,310.08	7,495.86	7,349.96	145.90	51.378		
17,900.00	7,730.00	7,792.75	7,685.25	148.79	31.97	-91.13	497.77	6,310.08	7,592.99	7,446.96	146.03	51.996		
18,000.00	7,730.00	7,793.37	7,685.87	150.31	31.97	-91.15	497.77	6,310.08	7,690.20	7,544.04	146.16	52.615		
18,100.00	7,730.00	7,794.00	7,686.50	151.83	31.98	-91.17	497.76	6,310.09	7,787.48	7,641.19	146.29	53.234		
18,200.00	7,730.00	7,794.62	7,687.12	153.37	31.98	-91.19	497.76	6,310.09	7,884.82	7,738.41	146.41	53.855		
18,300.00	7,730.00	7,795.25	7,687.75	154.90	31.98	-91.21	497.75	6,310.09	7,982.23	7,835.71	146.53	54.475		
18,400.00	7,730.00	7,795.87	7,688.37	156.45	31.98	-91.23	497.75	6,310.10	8,079.71	7,933.06	146.65	55.097		
18,500.00	7,730.00	7,796.50	7,689.00	158.00	31.98	-91.25	497.75	6,310.10	8,177.24	8,030.48	146.76	55.718		
18,600.00	7,730.00	7,797.12	7,689.62	159.55	31.99	-91.27	497.74	6,310.11	8,274.84	8,127.97	146.87	56.341		
18,700.00	7,730.00	7,797.75	7,690.25	161.11	31.99	-91.29	497.74	6,310.11	8,372.49	8,225.51	146.98	56.964		
18,800.00	7,730.00	7,798.38	7,690.88	162.68	31.99	-91.31	497.74	6,310.11	8,470.20	8,323.11	147.09	57.587		
18,900.00	7,730.00	7,799.00	7,691.50	164.25	31.99	-91.33	497.73	6,310.12	8,567.95	8,420.76	147.19	58.210		
19,000.00	7,730.00	7,799.63	7,692.13	165.83	31.99	-91.35	497.73	6,310.12	8,665.76	8,518.47	147.29	58.835		
19,100.00	7,730.00	7,800.25	7,692.75	167.41	32.00	-91.37	497.72	6,310.12	8,763.62	8,616.23	147.39	59.459		
19,200.00	7,730.00	7,800.88	7,693.38	168.99	32.00	-91.39	497.72	6,310.13	8,861.53	8,714.04	147.49	60.084		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		47-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,801.50	7,694.00	170.58	32.00	-91.41	497.72	6,310.13	8,959.48	8,811.90	147.58	60.709	
19,400.00	7,730.00	7,802.13	7,694.63	172.17	32.00	-91.43	497.71	6,310.14	9,057.48	8,909.81	147.67	61.334	
19,430.54	7,730.00	7,802.32	7,694.82	172.66	32.00	-91.43	497.71	6,310.14	9,087.41	8,939.71	147.70	61.525	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.97	758.30	5,374.21	5,428.05					
100.00	100.00	23.52	23.52	0.13	0.04	81.97	758.29	5,374.20	5,427.43	5,427.26	0.17	N/A		
198.41	198.41	117.42	117.42	0.49	0.26	81.98	757.65	5,374.13	5,427.28	5,426.53	0.75	7,278.294		
200.00	200.00	118.58	118.58	0.49	0.26	81.98	757.63	5,374.14	5,427.28	5,426.52	0.76	7,183.200		
300.00	300.00	169.00	168.97	0.85	0.45	81.99	756.20	5,374.43	5,427.60	5,426.31	1.30	4,188.386		
400.00	400.00	236.82	236.69	1.21	0.70	82.03	752.73	5,375.56	5,428.63	5,426.73	1.90	2,849.928		
500.00	500.00	294.92	294.60	1.57	0.92	82.08	748.33	5,377.31	5,430.56	5,428.08	2.48	2,186.557		
600.00	599.98	351.00	350.39	1.92	1.13	16.78	743.13	5,379.50	5,431.53	5,428.48	3.05	1,779.551		
700.00	699.84	413.56	412.49	2.28	1.39	16.88	736.12	5,382.56	5,429.91	5,426.25	3.66	1,484.902		
800.00	799.45	442.00	440.64	2.64	1.50	16.95	732.47	5,384.20	5,425.89	5,421.77	4.13	1,314.757		
900.00	898.70	496.49	494.43	3.02	1.74	17.09	724.64	5,388.01	5,419.51	5,414.79	4.72	1,147.767		
1,000.00	997.47	533.00	530.32	3.41	1.90	17.23	718.75	5,391.17	5,411.07	5,405.83	5.24	1,032.239		
1,100.00	1,095.62	567.67	564.29	3.84	2.07	17.38	712.70	5,394.61	5,400.50	5,394.73	5.77	935.708		
1,200.00	1,193.06	624.00	619.21	4.29	2.34	17.62	702.04	5,401.14	5,387.95	5,381.54	6.41	840.518		
1,300.00	1,289.64	647.96	642.46	4.78	2.47	17.79	697.17	5,404.20	5,373.04	5,366.13	6.91	777.343		
1,400.00	1,385.27	715.00	707.22	5.32	2.82	18.13	682.31	5,413.13	5,355.76	5,348.12	7.65	700.511		
1,500.00	1,479.82	757.60	748.12	5.90	3.07	18.42	672.04	5,419.18	5,336.07	5,327.79	8.28	644.347		
1,600.00	1,573.17	808.00	796.25	6.53	3.36	18.78	659.20	5,426.84	5,314.18	5,305.21	8.97	592.271		
1,700.00	1,665.21	854.89	840.78	7.23	3.65	19.15	646.60	5,434.38	5,290.03	5,280.35	9.68	546.636		
1,800.00	1,755.84	902.00	885.28	7.98	3.95	19.56	633.30	5,442.25	5,263.58	5,253.18	10.40	506.216		
1,900.00	1,844.94	967.49	946.97	8.80	4.38	20.10	614.44	5,453.59	5,234.78	5,223.52	11.26	464.874		
2,000.00	1,932.39	1,045.68	1,020.51	9.68	4.90	20.74	591.80	5,467.47	5,203.57	5,191.34	12.23	425.385		
2,100.00	2,018.11	1,127.42	1,097.13	10.63	5.46	21.47	567.26	5,481.96	5,169.61	5,156.35	13.26	389.895		
2,200.00	2,101.97	1,358.52	1,314.60	11.65	7.03	23.16	498.97	5,519.89	5,132.14	5,116.87	15.28	335.920		
2,300.00	2,183.88	1,381.09	1,335.86	12.74	7.18	23.66	492.28	5,523.49	5,091.26	5,075.29	15.97	318.774		
2,400.00	2,263.74	1,433.00	1,384.64	13.90	7.54	24.40	476.73	5,532.04	5,048.56	5,031.68	16.88	299.047		
2,431.61	2,288.54	1,433.00	1,384.64	14.29	7.54	24.53	476.73	5,532.04	5,034.63	5,017.56	17.07	294.934		
2,500.00	2,341.97	1,454.68	1,404.94	15.13	7.69	24.68	470.11	5,535.77	5,004.63	4,987.00	17.63	283.934		
2,600.00	2,420.08	1,490.39	1,438.26	16.37	7.95	24.93	458.94	5,542.13	4,961.68	4,943.20	18.48	268.448		
2,700.00	2,498.20	1,527.00	1,472.24	17.63	8.21	25.20	447.14	5,548.93	4,919.85	4,900.48	19.37	254.045		
2,800.00	2,576.32	1,606.40	1,545.75	18.89	8.81	25.78	421.16	5,563.92	4,878.83	4,858.25	20.58	237.014		
2,900.00	2,654.43	1,681.44	1,615.29	20.17	9.36	26.34	396.72	5,578.04	4,838.32	4,816.53	21.79	222.033		
3,000.00	2,732.55	1,829.23	1,752.90	21.45	10.44	27.45	349.99	5,604.88	4,797.86	4,774.34	23.53	203.941		
3,100.00	2,810.67	1,895.56	1,815.01	22.74	10.91	27.95	329.84	5,616.53	4,757.44	4,732.74	24.69	192.660		
3,200.00	2,888.78	1,972.27	1,887.02	24.03	11.45	28.52	307.17	5,630.13	4,717.64	4,691.70	25.94	181.849		
3,300.00	2,966.90	2,044.98	1,955.38	25.33	11.96	29.06	286.01	5,643.05	4,678.42	4,651.24	27.18	172.124		
3,400.00	3,045.02	2,110.28	2,016.73	26.63	12.42	29.55	266.95	5,654.72	4,639.88	4,611.49	28.39	163.447		
3,500.00	3,123.13	2,166.96	2,069.84	27.94	12.82	29.99	250.06	5,665.01	4,602.21	4,572.65	29.56	155.709		
3,600.00	3,201.25	2,225.50	2,124.56	29.24	13.24	30.45	232.28	5,675.84	4,565.46	4,534.70	30.76	148.422		
3,700.00	3,279.37	2,331.37	2,223.52	30.55	14.00	31.29	200.26	5,689.58	4,529.58	4,497.26	32.32	140.139		
3,800.00	3,357.49	2,455.93	2,340.67	31.86	14.88	32.27	163.99	5,717.39	4,493.16	4,459.14	34.02	132.070		
3,900.00	3,435.60	2,522.59	2,403.49	33.18	15.34	32.80	144.88	5,728.90	4,457.25	4,421.92	35.33	126.173		
4,000.00	3,513.72	2,583.68	2,460.92	34.49	15.77	33.30	126.98	5,739.56	4,422.21	4,385.60	36.62	120.772		
4,100.00	3,591.84	2,640.82	2,514.39	35.81	16.18	33.77	109.53	5,749.60	4,388.17	4,350.27	37.90	115.780		
4,200.00	3,669.95	2,747.22	2,614.13	37.12	16.93	34.66	77.59	5,768.34	4,354.82	4,315.25	39.57	110.062		
4,300.00	3,748.07	2,810.02	2,673.19	38.44	17.37	35.19	59.32	5,779.37	4,321.99	4,281.07	40.92	105.623		
4,400.00	3,826.19	2,866.39	2,726.05	39.76	17.77	35.66	42.46	5,789.33	4,290.14	4,247.90	42.25	101.553		
4,500.00	3,904.30	2,917.33	2,773.68	41.08	18.14	36.10	26.91	5,798.54	4,259.48	4,215.93	43.55	97.811		
4,600.00	3,982.42	2,975.77	2,828.17	42.40	18.57	36.61	8.77	5,809.33	4,230.01	4,185.08	44.93	94.149		
4,700.00	4,060.54	3,039.21	2,887.23	43.72	19.03	37.17	-11.15	5,821.19	4,201.62	4,155.26	46.37	90.616		
4,800.00	4,138.66	3,112.33	2,955.18	45.05	19.58	37.82	-34.43	5,834.86	4,174.19	4,126.28	47.91	87.133		
4,900.00	4,216.77	3,192.39	3,029.42	46.37	20.18	38.55	-60.54	5,849.60	4,147.61	4,098.08	49.53	83.739		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,318.61	3,146.53	47.69	21.13	39.71	-101.97	5,871.94	4,121.53	4,069.95	51.57	79.917		
5,100.00	4,373.01	3,408.64	3,230.75	49.02	21.78	40.53	-129.52	5,887.81	4,095.71	4,042.42	53.29	76.855		
5,200.00	4,451.12	3,464.54	3,283.19	50.34	22.17	41.04	-146.07	5,897.90	4,070.82	4,016.09	54.73	74.379		
5,300.00	4,529.24	3,515.40	3,330.83	51.67	22.54	41.50	-161.19	5,907.28	4,047.17	3,991.03	56.14	72.088		
5,400.00	4,607.36	3,558.33	3,370.88	52.99	22.85	41.89	-174.37	5,915.37	4,025.02	3,967.52	57.50	70.004		
5,500.00	4,685.47	3,616.91	3,425.29	54.32	23.29	42.44	-192.91	5,926.66	4,004.39	3,945.39	59.00	67.871		
5,600.00	4,763.59	3,675.00	3,474.26	55.64	23.65	43.61	-211.70	5,937.70	3,984.22	3,912.76	60.46	65.751		
5,700.00	4,841.71	3,733.71	3,523.39	56.97	24.04	44.70	-230.93	5,948.83	3,963.94	3,900.80	61.94	63.783		
5,800.00	4,919.83	3,792.99	3,572.67	58.30	24.45	45.30	-250.03	5,959.33	3,944.64	3,879.92	63.43	61.944		
5,900.00	4,997.94	3,852.14	3,621.17	59.62	24.90	45.83	-302.23	5,969.01	3,926.63	3,860.38	64.94	59.273		
6,000.00	5,076.06	3,910.55	3,670.49	60.95	25.42	46.27	-316.47	6,001.27	3,910.16	3,842.48	66.48	57.771		
6,100.00	5,154.18	3,969.89	3,719.99	62.28	25.99	46.80	-333.73	6,011.84	3,895.29	3,826.07	68.06	56.278		
6,200.00	5,232.29	4,029.83	3,770.40	63.61	26.64	47.57	-358.52	6,022.31	3,881.58	3,810.60	69.68	54.681		
6,300.00	5,310.41	4,089.63	3,821.19	64.93	27.39	48.56	-390.55	6,046.09	3,868.48	3,795.49	71.34	53.004		
6,400.00	5,388.53	4,149.56	3,872.13	66.26	28.24	49.13	-408.78	6,056.79	3,856.51	3,781.94	73.04	51.721		
6,500.00	5,466.64	4,209.79	3,923.60	67.59	29.19	49.65	-425.66	6,067.20	3,845.99	3,769.89	74.78	50.538		
6,600.00	5,544.76	4,269.90	3,974.84	68.92	30.24	50.20	-443.16	6,078.37	3,837.01	3,759.35	76.56	49.410		
6,700.00	5,622.88	4,330.89	4,025.57	70.25	31.39	50.90	-465.65	6,092.84	3,829.36	3,749.98	78.38	48.244		
6,800.00	5,701.00	4,391.87	4,076.30	71.58	32.64	51.68	-490.85	6,108.35	3,822.78	3,741.60	80.24	47.090		
6,900.00	5,779.11	4,452.94	4,126.29	72.91	33.99	52.36	-513.30	6,120.96	3,817.32	3,734.44	82.14	46.060		
7,000.00	5,857.23	4,514.19	4,176.48	74.23	35.34	52.95	-533.06	6,133.56	3,813.31	3,728.83	84.08	45.142		
7,100.00	5,935.35	4,575.02	4,227.79	75.56	36.79	53.39	-548.15	6,139.82	3,810.93	3,725.03	85.96	44.364		
7,200.00	6,013.46	4,635.08	4,279.88	76.89	38.24	53.59	-568.59	6,148.58	3,795.23	3,699.06	87.88	43.667		
7,300.00	6,091.58	4,695.32	4,332.12	78.22	39.79	53.86	-584.84	6,158.08	3,766.19	3,668.36	89.84	43.047		
7,400.00	6,169.70	4,755.55	4,384.34	79.55	41.34	54.11	-605.05	6,168.56	3,737.94	3,638.43	91.84	42.482		
7,500.00	6,247.81	4,815.99	4,436.77	80.88	42.99	54.36	-625.30	6,179.01	3,710.41	3,609.20	93.88	41.960		
7,600.00	6,325.93	4,876.02	4,489.81	82.21	44.74	54.61	-645.37	6,189.50	3,683.58	3,580.66	95.96	41.479		
7,700.00	6,404.05	4,936.43	4,542.21	83.54	46.59	54.86	-665.25	6,199.99	3,657.42	3,552.78	98.08	41.028		
7,800.00	6,482.17	4,996.64	4,594.41	84.87	48.44	55.11	-685.06	6,210.41	3,632.14	3,525.77	100.24	40.606		
7,900.00	6,560.28	5,056.80	4,646.56	86.20	50.29	55.36	-704.40	6,220.86	3,607.63	3,499.53	102.44	40.212		
8,000.00	6,638.40	5,117.05	4,698.75	87.53	52.14	55.61	-723.90	6,231.25	3,583.57	3,473.72	104.68	39.844		
8,100.00	6,716.52	5,177.53	4,751.26	88.86	54.09	55.86	-743.40	6,241.59	3,560.49	3,448.88	106.96	39.499		
8,200.00	6,794.63	5,237.69	4,803.37	90.20	56.04	56.11	-762.59	6,251.86	3,537.88	3,424.52	109.28	39.176		
8,300.00	6,872.75	5,297.98	4,855.62	91.53	58.09	56.36	-781.46	6,262.07	3,515.95	3,400.82	111.64	38.873		
8,400.00	6,950.87	5,358.20	4,907.31	92.86	60.14	56.61	-800.58	6,272.23	3,495.09	3,378.16	114.04	38.589		
8,500.00	7,028.98	5,418.25	4,959.85	94.19	62.19	56.86	-799.82	6,271.98	3,475.90	3,357.20	116.48	38.317		
8,600.00	7,107.10	5,478.26	5,012.85	95.52	64.24	57.11	-798.74	6,271.29	3,458.16	3,337.67	118.96	38.056		
8,647.91	7,144.53	5,500.72	5,035.29	96.16	65.39	57.36	-798.63	6,270.00	3,449.89	3,328.54	121.48	37.804		
8,650.00	7,146.16	5,502.76	5,037.33	96.18	65.41	57.37	-798.63	6,269.93	3,449.53	3,328.14	121.58	37.804		
8,700.00	7,185.66	5,541.43	5,076.96	96.84	67.14	57.94	-798.93	6,267.85	3,439.05	3,316.79	123.27	37.582		
8,750.00	7,225.78	5,581.57	5,117.01	97.47	68.89	58.19	-799.60	6,265.09	3,425.08	3,301.98	125.00	37.369		
8,800.00	7,266.21	5,622.42	5,158.88	98.08	70.64	58.44	-799.58	6,265.34	3,408.09	3,284.22	126.76	37.166		
8,850.00	7,306.63	5,663.24	5,199.70	98.64	72.39	58.69	-799.90	6,264.59	3,388.02	3,263.44	128.56	36.972		
8,900.00	7,346.75	5,704.18	5,240.60	99.17	74.14	58.94	-800.25	6,263.97	3,365.02	3,239.80	130.40	36.787		
8,950.00	7,386.25	5,744.00	5,281.51	99.64	75.89	59.19	-800.80	6,263.35	3,339.22	3,213.45	132.28	36.610		
9,000.00	7,424.84	5,783.27	5,322.68	100.06	77.64	59.44	-801.12	6,263.13	3,310.70	3,184.45	134.20	36.441		
9,050.00	7,462.22	5,822.18	5,363.58	100.42	79.39	59.69	-801.60	6,262.94	3,279.61	3,152.97	136.16	36.280		
9,100.00	7,498.11	5,861.37	5,404.77	100.74	81.14	59.94	-802.01	6,263.00	3,246.12	3,119.16	138.16	36.126		
9,150.00	7,532.24	5,899.00	5,445.39	100.99	82.89	60.19	-802.39	6,263.33	3,210.45	3,083.25	140.20	35.979		
9,200.00	7,564.34	5,936.28	5,485.67	101.19	84.64	60.44	-802.61	6,263.62	3,172.83	3,045.50	142.28	35.837		
9,250.00	7,594.17	5,972.26	5,525.64	101.34	86.39	60.69	-802.90	6,264.00	3,133.58	3,006.19	144.40	35.699		
9,300.00	7,621.50	6,007.97	5,564.34	101.45	88.14	60.94	-803.23	6,264.38	3,092.96	2,965.60	146.56	35.566		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,771.27	7,458.64	101.50	41.77	-26.91	-803.58	6,264.77	3,051.28	2,924.03	127.25	23.979		
9,400.00	7,667.87	7,785.03	7,472.38	101.51	41.81	-36.35	-803.92	6,265.15	3,008.86	2,881.80	127.06	23.681		
9,450.00	7,686.55	7,799.00	7,486.34	101.48	41.85	-46.13	-804.31	6,265.56	2,966.03	2,839.24	126.79	23.393		
9,500.00	7,702.04	7,808.76	7,496.09	101.42	41.88	-55.75	-804.59	6,265.86	2,923.14	2,796.69	126.45	23.118		
9,550.00	7,714.20	7,818.46	7,505.79	101.33	41.90	-64.86	-804.88	6,266.18	2,880.56	2,754.53	126.03	22.856		
9,600.00	7,722.96	7,825.82	7,513.13	101.20	41.92	-73.03	-805.11	6,266.42	2,838.67	2,713.12	125.55	22.610		
9,650.00	7,728.24	7,830.73	7,518.04	101.06	41.94	-80.04	-805.27	6,266.58	2,797.84	2,672.84	125.00	22.382		
9,699.97	7,730.00	7,833.13	7,520.45	100.90	41.95	-85.81	-805.34	6,266.67	2,758.49	2,634.10	124.40	22.175		
9,800.00	7,730.00	7,835.43	7,522.73	100.56	41.95	-85.88	-805.42	6,266.75	2,682.19	2,559.11	123.08	21.792		
9,900.00	7,730.00	7,837.75	7,525.06	100.24	41.96	-85.96	-805.49	6,266.83	2,607.51	2,485.83	121.68	21.430		
10,000.00	7,730.00	7,840.11	7,527.41	99.93	41.97	-86.04	-805.57	6,266.91	2,534.57	2,414.39	120.18	21.090		
10,100.00	7,730.00	7,842.50	7,529.80	99.64	41.97	-86.11	-805.65	6,266.99	2,463.53	2,344.95	118.58	20.775		
10,200.00	7,730.00	7,844.93	7,532.23	99.36	41.98	-86.19	-805.73	6,267.08	2,394.55	2,277.67	116.88	20.487		
10,300.00	7,730.00	7,847.40	7,534.69	99.09	41.99	-86.27	-805.81	6,267.17	2,327.83	2,212.75	115.08	20.228		
10,400.00	7,730.00	7,849.90	7,537.20	98.84	41.99	-86.35	-805.90	6,267.26	2,263.55	2,150.38	113.17	20.001		
10,500.00	7,730.00	7,852.45	7,539.73	98.61	42.00	-86.44	-805.99	6,267.35	2,201.94	2,090.78	111.16	19.809		
10,600.00	7,730.00	7,855.03	7,542.31	98.39	42.01	-86.52	-806.07	6,267.44	2,143.22	2,034.17	109.05	19.654		
10,700.00	7,730.00	7,857.65	7,544.93	98.18	42.02	-86.61	-806.16	6,267.54	2,087.63	1,980.78	106.85	19.539		
10,800.00	7,730.00	7,860.31	7,547.59	97.99	42.02	-86.69	-806.26	6,267.64	2,035.44	1,930.86	104.58	19.464		
10,900.00	7,730.00	7,863.02	7,550.29	97.81	42.03	-86.78	-806.35	6,267.74	1,986.91	1,884.64	102.27	19.429		
11,000.00	7,730.00	7,865.76	7,553.03	97.64	42.04	-86.87	-806.45	6,267.84	1,942.31	1,842.36	99.95	19.433		
11,100.00	7,730.00	7,868.56	7,555.82	97.50	42.05	-86.96	-806.55	6,267.95	1,901.93	1,804.24	97.69	19.470		
11,200.00	7,730.00	7,871.39	7,558.66	97.36	42.06	-87.05	-806.65	6,268.06	1,866.03	1,770.49	95.54	19.531		
11,300.00	7,730.00	7,874.28	7,561.53	97.24	42.07	-87.15	-806.76	6,268.17	1,834.88	1,741.27	93.60	19.603		
11,400.00	7,730.00	7,877.21	7,564.46	97.14	42.07	-87.24	-806.86	6,268.28	1,808.72	1,716.74	91.98	19.665		
11,500.00	7,730.00	7,880.19	7,567.44	97.06	42.08	-87.34	-806.97	6,268.40	1,787.77	1,697.00	90.77	19.695		
11,600.00	7,730.00	7,883.21	7,570.46	96.98	42.09	-87.44	-807.09	6,268.52	1,772.22	1,682.12	90.10	19.670		
11,700.00	7,730.00	7,886.29	7,573.53	96.93	42.10	-87.54	-807.20	6,268.64	1,762.21	1,672.16	90.05	19.569		
11,800.00	7,730.00	7,889.43	7,576.66	96.90	42.11	-87.64	-807.32	6,268.77	1,757.84	1,667.16	90.68	19.386		
11,827.09	7,730.00	7,890.28	7,577.52	96.89	42.11	-87.67	-807.35	6,268.80	1,757.63	1,666.66	90.97	19.322 CC, ES		
11,900.00	7,730.00	7,893.13	7,580.36	96.88	42.12	-87.76	-807.46	6,268.92	1,759.14	1,667.17	91.97	19.128		
12,000.00	7,730.00	7,898.99	7,586.21	96.88	42.14	-87.95	-807.68	6,269.15	1,766.10	1,672.25	93.85	18.818		
12,100.00	7,730.00	7,904.74	7,591.95	96.90	42.15	-88.14	-807.90	6,269.37	1,778.65	1,682.40	96.26	18.478		
12,200.00	7,730.00	7,910.37	7,597.57	96.94	42.17	-88.32	-808.11	6,269.58	1,796.68	1,697.62	99.06	18.137		
12,300.00	7,730.00	7,915.89	7,603.08	97.00	42.19	-88.50	-808.31	6,269.79	1,820.02	1,717.87	102.15	17.818		
12,400.00	7,730.00	7,921.30	7,608.49	97.08	42.20	-88.68	-808.51	6,269.98	1,848.47	1,743.08	105.39	17.540		
12,500.00	7,730.00	7,926.60	7,613.79	97.18	42.22	-88.85	-808.70	6,270.16	1,881.80	1,773.12	108.68	17.315		
12,600.00	7,730.00	7,931.81	7,618.99	97.31	42.23	-89.02	-808.89	6,270.33	1,919.76	1,807.81	111.95	17.149		
12,700.00	7,730.00	7,936.91	7,624.08	97.46	42.25	-89.19	-809.07	6,270.49	1,962.07	1,846.95	115.12	17.044		
12,800.00	7,730.00	7,941.92	7,629.09	97.64	42.26	-89.35	-809.24	6,270.65	2,008.47	1,890.31	118.16	16.998 SF		
12,900.00	7,730.00	7,946.84	7,634.00	97.85	42.28	-89.51	-809.41	6,270.79	2,058.67	1,937.64	121.04	17.008		
13,000.00	7,730.00	7,951.66	7,638.82	98.09	42.29	-89.67	-809.58	6,270.93	2,112.42	1,988.68	123.74	17.072		
13,100.00	7,730.00	7,956.40	7,643.55	98.35	42.30	-89.82	-809.74	6,271.07	2,169.43	2,043.18	126.25	17.184		
13,200.00	7,730.00	7,961.05	7,648.19	98.65	42.32	-89.97	-809.90	6,271.19	2,229.46	2,100.89	128.57	17.340		
13,300.00	7,730.00	7,965.61	7,652.76	98.98	42.33	-90.12	-810.05	6,271.31	2,292.28	2,161.58	130.71	17.537		
13,400.00	7,730.00	7,970.10	7,657.24	99.34	42.34	-90.27	-810.20	6,271.42	2,357.67	2,225.00	132.67	17.771		
13,500.00	7,730.00	7,974.50	7,661.64	99.74	42.36	-90.41	-810.34	6,271.53	2,425.41	2,290.94	134.47	18.037		
13,600.00	7,730.00	7,978.83	7,665.96	100.17	42.37	-90.55	-810.48	6,271.63	2,495.31	2,359.20	136.11	18.333		
13,700.00	7,730.00	7,983.08	7,670.21	100.65	42.38	-90.69	-810.62	6,271.72	2,567.20	2,429.59	137.61	18.656		
13,800.00	7,730.00	7,987.26	7,674.39	101.16	42.39	-90.83	-810.75	6,271.81	2,640.92	2,501.94	138.98	19.003		
13,900.00	7,730.00	7,991.37	7,678.50	101.71	42.41	-90.96	-810.88	6,271.90	2,716.31	2,576.08	140.22	19.371		
14,000.00	7,730.00	7,995.41	7,682.53	102.30	42.42	-91.09	-811.01	6,271.98	2,793.24	2,651.88	141.36	19.760		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 78-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,999.38	7,686.50	102.93	42.43	-91.22	-811.13	6,272.05	2,871.59	2,729.20	142.39	20.167		
14,200.00	7,730.00	8,003.29	7,690.40	103.60	42.44	-91.35	-811.26	6,272.12	2,951.24	2,807.91	143.34	20.590		
14,300.00	7,730.00	8,001.42	7,688.54	104.32	42.43	-91.29	-811.18	6,272.09	3,032.12	2,887.91	144.21	21.026		
14,400.00	7,730.00	8,004.01	7,691.13	105.07	42.44	-91.37	-811.26	6,272.14	3,114.09	2,969.09	145.00	21.477		
14,500.00	7,730.00	8,006.51	7,693.63	105.86	42.44	-91.45	-811.33	6,272.18	3,197.08	3,051.37	145.72	21.941		
14,600.00	7,730.00	8,008.93	7,696.05	106.70	42.45	-91.53	-811.39	6,272.22	3,281.02	3,134.65	146.37	22.415		
14,700.00	7,730.00	8,011.27	7,698.38	107.57	42.46	-91.61	-811.46	6,272.26	3,365.84	3,218.87	146.98	22.901		
14,800.00	7,730.00	8,013.53	7,700.65	108.48	42.46	-91.68	-811.52	6,272.29	3,451.47	3,303.94	147.53	23.396		
14,900.00	7,730.00	8,015.72	7,702.83	109.43	42.47	-91.75	-811.58	6,272.32	3,537.85	3,389.82	148.03	23.899		
15,000.00	7,730.00	8,017.85	7,704.96	110.42	42.47	-91.82	-811.63	6,272.36	3,624.93	3,476.43	148.50	24.411		
15,100.00	7,730.00	8,019.90	7,707.01	111.43	42.48	-91.89	-811.68	6,272.38	3,712.66	3,563.74	148.93	24.930		
15,200.00	7,730.00	8,021.90	7,709.01	112.49	42.48	-91.95	-811.74	6,272.41	3,801.00	3,651.68	149.32	25.456		
15,300.00	7,730.00	8,023.83	7,710.94	113.57	42.49	-92.02	-811.78	6,272.44	3,889.89	3,740.21	149.68	25.988		
15,400.00	7,730.00	8,025.71	7,712.82	114.68	42.49	-92.08	-811.83	6,272.46	3,979.32	3,829.30	150.02	26.526		
15,500.00	7,730.00	8,027.53	7,714.64	115.82	42.50	-92.14	-811.87	6,272.49	4,069.23	3,918.91	150.32	27.070		
15,600.00	7,730.00	8,029.30	7,716.41	116.99	42.50	-92.19	-811.91	6,272.51	4,159.61	4,009.00	150.61	27.618		
15,700.00	7,730.00	8,031.02	7,718.13	118.19	42.51	-92.25	-811.95	6,272.53	4,250.41	4,099.54	150.87	28.172		
15,800.00	7,730.00	8,032.70	7,719.80	119.41	42.51	-92.30	-811.99	6,272.55	4,341.62	4,190.50	151.12	28.730		
15,900.00	7,730.00	8,034.32	7,721.42	120.65	42.52	-92.36	-812.03	6,272.56	4,433.21	4,281.86	151.35	29.292		
16,000.00	7,730.00	8,035.90	7,723.01	121.91	42.52	-92.41	-812.07	6,272.58	4,525.15	4,373.59	151.56	29.857		
16,100.00	7,730.00	8,037.44	7,724.55	123.20	42.53	-92.46	-812.10	6,272.60	4,617.42	4,465.67	151.75	30.427		
16,200.00	7,730.00	8,038.94	7,726.05	124.50	42.53	-92.51	-812.13	6,272.61	4,710.01	4,558.08	151.94	31.000		
16,300.00	7,730.00	8,040.40	7,727.51	125.82	42.53	-92.55	-812.16	6,272.63	4,802.90	4,650.79	152.11	31.575		
16,400.00	7,730.00	8,041.83	7,728.93	127.16	42.54	-92.60	-812.19	6,272.64	4,896.07	4,743.80	152.27	32.154		
16,500.00	7,730.00	8,043.21	7,730.31	128.52	42.54	-92.65	-812.22	6,272.65	4,989.50	4,837.08	152.42	32.736		
16,600.00	7,730.00	8,044.56	7,731.67	129.89	42.54	-92.69	-812.25	6,272.66	5,083.18	4,930.62	152.56	33.320		
16,700.00	7,730.00	8,045.88	7,732.98	131.27	42.55	-92.73	-812.28	6,272.68	5,177.09	5,024.41	152.69	33.906		
16,800.00	7,730.00	8,047.17	7,734.27	132.67	42.55	-92.77	-812.30	6,272.69	5,271.23	5,118.42	152.81	34.495		
16,900.00	7,730.00	8,048.42	7,735.52	134.09	42.55	-92.81	-812.33	6,272.70	5,365.58	5,212.66	152.93	35.086		
17,000.00	7,730.00	8,049.65	7,736.75	135.51	42.56	-92.85	-812.35	6,272.71	5,460.13	5,307.10	153.03	35.679		
17,100.00	7,730.00	8,050.85	7,737.94	136.95	42.56	-92.89	-812.38	6,272.71	5,554.88	5,401.74	153.14	36.274		
17,200.00	7,730.00	8,052.01	7,739.11	138.40	42.56	-92.93	-812.40	6,272.72	5,649.80	5,496.57	153.23	36.871		
17,300.00	7,730.00	8,053.15	7,740.25	139.85	42.57	-92.97	-812.42	6,272.73	5,744.89	5,591.57	153.32	37.469		
17,400.00	7,730.00	8,054.27	7,741.37	141.32	42.57	-93.00	-812.44	6,272.74	5,840.15	5,686.74	153.41	38.069		
17,500.00	7,730.00	8,055.36	7,742.46	142.80	42.57	-93.04	-812.46	6,272.74	5,935.57	5,782.08	153.49	38.671		
17,600.00	7,730.00	8,056.43	7,743.52	144.28	42.58	-93.07	-812.48	6,272.75	6,031.13	5,877.56	153.57	39.274		
17,700.00	7,730.00	8,057.47	7,744.57	145.78	42.58	-93.11	-812.50	6,272.76	6,126.83	5,973.19	153.64	39.878		
17,800.00	7,730.00	8,058.49	7,745.59	147.28	42.58	-93.14	-812.52	6,272.76	6,222.67	6,068.96	153.71	40.484		
17,900.00	7,730.00	8,059.49	7,746.58	148.79	42.58	-93.17	-812.54	6,272.77	6,318.64	6,164.86	153.77	41.091		
18,000.00	7,730.00	8,060.46	7,747.56	150.31	42.59	-93.20	-812.55	6,272.77	6,414.73	6,260.89	153.84	41.698		
18,100.00	7,730.00	8,061.42	7,748.51	151.83	42.59	-93.24	-812.57	6,272.78	6,510.93	6,357.04	153.90	42.307		
18,200.00	7,730.00	8,062.35	7,749.45	153.37	42.59	-93.27	-812.59	6,272.78	6,607.25	6,453.30	153.95	42.917		
18,300.00	7,730.00	8,079.00	7,766.09	154.90	42.64	-93.81	-812.85	6,272.83	6,703.71	6,549.70	154.02	43.525		
18,400.00	7,730.00	8,079.00	7,766.09	156.45	42.64	-93.81	-812.85	6,272.83	6,800.24	6,646.17	154.07	44.137		
18,500.00	7,730.00	8,079.00	7,766.09	158.00	42.64	-93.81	-812.85	6,272.83	6,896.87	6,742.75	154.12	44.750		
18,600.00	7,730.00	8,079.00	7,766.09	159.55	42.64	-93.81	-812.85	6,272.83	6,993.59	6,839.42	154.17	45.363		
18,700.00	7,730.00	8,079.00	7,766.09	161.11	42.64	-93.81	-812.85	6,272.83	7,090.40	6,936.18	154.21	45.978		
18,800.00	7,730.00	8,079.00	7,766.09	162.68	42.64	-93.81	-812.85	6,272.83	7,187.30	7,033.04	154.26	46.593		
18,900.00	7,730.00	8,079.00	7,766.09	164.25	42.64	-93.81	-812.85	6,272.83	7,284.28	7,129.98	154.30	47.209		
19,000.00	7,730.00	8,079.00	7,766.09	165.83	42.64	-93.81	-812.85	6,272.83	7,381.34	7,227.00	154.34	47.825		
19,100.00	7,730.00	8,079.00	7,766.09	167.41	42.64	-93.81	-812.85	6,272.83	7,478.48	7,324.10	154.38	48.442		
19,200.00	7,730.00	8,079.00	7,766.09	168.99	42.64	-93.81	-812.85	6,272.83	7,575.70	7,421.28	154.42	49.060		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		78-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,079.00	7,766.09	170.58	42.64	-93.81	-812.85	6,272.83	7,672.98	7,518.53	154.45	49.678	
19,400.00	7,730.00	8,079.00	7,766.09	172.17	42.64	-93.81	-812.85	6,272.83	7,770.34	7,615.85	154.49	50.297	
19,430.54	7,730.00	8,079.00	7,766.09	172.66	42.64	-93.81	-812.85	6,272.83	7,800.08	7,645.58	154.50	50.486	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1,143.13	1,120.76	0.00	5.06	83.27	614.44	5,207.59	5,379.43					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.42	599.56	5,193.76	5,357.50	5,352.22	5.28	1,014.390		
200.00	200.00	1,291.96	1,263.54	0.49	5.95	83.57	583.41	5,179.29	5,336.02	5,330.18	5.84	914.419		
300.00	300.00	1,404.08	1,404.08	0.85	0.91	83.91	549.82	5,151.93	5,314.76	5,313.39	1.38	3,863.223		
400.00	400.00	1,721.91	1,672.87	1.21	8.65	84.53	487.17	5,090.14	5,289.34	5,280.68	8.66	610.913		
500.00	500.00	1,775.00	1,723.37	1.57	8.99	84.64	476.18	5,078.01	5,264.19	5,254.94	9.25	568.932		
600.00	599.98	1,870.50	1,814.30	1.92	9.60	19.68	456.37	5,056.56	5,237.91	5,227.83	10.08	519.599		
700.00	699.84	1,923.10	1,864.50	2.28	9.93	20.01	445.86	5,044.88	5,208.86	5,198.17	10.70	487.007		
800.00	799.45	1,978.42	1,917.55	2.64	10.27	20.36	435.80	5,032.88	5,177.47	5,166.15	11.32	457.184		
900.00	898.70	2,038.69	1,975.42	3.02	10.63	20.76	424.68	5,020.21	5,143.67	5,131.69	11.98	429.467		
1,000.00	997.47	2,204.01	2,133.80	3.41	11.65	21.50	393.32	4,984.71	5,106.34	5,093.20	13.14	388.522		
1,100.00	1,095.62	2,298.49	2,224.25	3.84	12.23	22.12	375.83	4,963.75	5,065.60	5,051.63	13.97	362.664		
1,200.00	1,193.06	2,378.10	2,300.51	4.29	12.72	22.74	361.47	4,945.99	5,021.96	5,007.23	14.72	341.065		
1,300.00	1,289.64	2,451.16	2,370.58	4.78	13.17	23.40	348.42	4,929.91	4,975.82	4,960.36	15.46	321.926		
1,400.00	1,385.27	2,523.00	2,439.45	5.32	13.61	24.12	335.46	4,914.11	4,927.00	4,910.81	16.19	304.276		
1,500.00	1,479.82	2,585.87	2,499.73	5.90	13.99	24.87	323.85	4,900.51	4,875.84	4,858.94	16.90	288.479		
1,600.00	1,573.17	2,653.06	2,564.18	6.53	14.40	25.72	311.12	4,886.42	4,822.59	4,804.95	17.65	273.297		
1,700.00	1,665.21	2,710.00	2,618.80	7.23	14.75	26.60	300.42	4,874.42	4,766.89	4,748.53	18.36	259.664		
1,800.00	1,755.84	2,767.33	2,673.91	7.98	15.09	27.54	290.04	4,862.54	4,709.12	4,690.03	19.08	246.780		
1,900.00	1,844.94	2,825.87	2,730.41	8.80	15.43	28.58	280.08	4,850.88	4,649.61	4,629.78	19.83	234.488		
2,000.00	1,932.39	3,030.77	2,927.36	9.68	16.66	30.68	245.94	4,805.90	4,585.66	4,564.43	21.23	215.994		
2,100.00	2,018.11	3,060.25	2,955.66	10.63	16.84	31.79	241.02	4,799.30	4,520.08	4,498.18	21.90	206.430		
2,200.00	2,101.97	3,103.66	2,997.44	11.65	17.10	33.10	233.89	4,789.94	4,453.05	4,430.40	22.65	196.598		
2,300.00	2,183.88	3,195.66	3,085.91	12.74	17.65	34.96	218.61	4,769.81	4,383.95	4,360.31	23.64	185.429		
2,400.00	2,263.74	3,252.84	3,140.84	13.90	18.00	36.69	208.94	4,757.18	4,312.98	4,288.46	24.52	175.866		
2,431.61	2,288.54	3,270.35	3,157.65	14.29	18.10	37.26	205.95	4,753.33	4,290.22	4,265.41	24.81	172.915		
2,500.00	2,341.97	3,303.39	3,189.37	15.13	18.30	37.61	200.23	4,746.08	4,240.89	4,215.48	25.42	166.852		
2,600.00	2,420.08	3,351.32	3,235.37	16.37	18.59	38.13	191.70	4,735.66	4,169.18	4,142.85	26.33	158.337		
2,700.00	2,498.20	3,405.99	3,287.82	17.63	18.93	38.74	181.72	4,723.89	4,097.94	4,070.63	27.31	150.039		
2,800.00	2,576.32	3,463.95	3,343.42	18.89	19.28	39.40	171.14	4,711.41	4,027.10	3,998.76	28.35	142.074		
2,900.00	2,654.43	3,506.45	3,384.21	20.17	19.54	39.90	163.33	4,702.35	3,956.79	3,927.45	29.35	134.828		
3,000.00	2,732.55	3,554.00	3,429.85	21.45	19.83	40.46	154.51	4,692.38	3,887.13	3,856.73	30.41	127.835		
3,100.00	2,810.67	3,587.47	3,462.01	22.74	20.03	40.87	148.27	4,685.52	3,818.19	3,786.75	31.44	121.436		
3,200.00	2,888.78	3,624.56	3,497.69	24.03	20.25	41.32	141.35	4,678.11	3,750.08	3,717.55	32.53	115.283		
3,300.00	2,966.90	3,647.00	3,519.30	25.33	20.39	41.60	137.16	4,673.74	3,682.87	3,649.28	33.59	109.651		
3,400.00	3,045.02	3,686.15	3,557.05	26.63	20.61	42.09	129.85	4,666.40	3,616.61	3,581.85	34.75	104.061		
3,500.00	3,123.13	3,714.78	3,584.72	27.94	20.78	42.46	124.50	4,661.33	3,551.49	3,515.58	35.91	98.895		
3,600.00	3,201.25	3,752.00	3,620.75	29.24	20.99	42.93	117.55	4,655.10	3,487.51	3,450.36	37.15	93.887		
3,700.00	3,279.37	3,900.12	3,763.80	30.55	21.84	44.91	89.48	4,628.93	3,423.83	3,384.88	38.94	87.919		
3,800.00	3,357.49	3,989.32	3,849.70	31.86	22.37	46.15	73.04	4,611.37	3,359.34	3,318.83	40.51	82.929		
3,900.00	3,435.60	4,048.18	3,906.40	33.18	22.71	46.99	62.47	4,599.63	3,295.42	3,253.45	41.98	78.503		
4,000.00	3,513.72	4,098.28	3,954.75	34.49	23.01	47.72	53.78	4,589.80	3,232.38	3,188.93	43.45	74.395		
4,100.00	3,591.84	4,169.72	4,023.79	35.81	23.42	48.76	41.81	4,575.89	3,170.16	3,125.11	45.05	70.364		
4,200.00	3,669.95	4,242.07	4,093.63	37.12	23.84	49.86	29.66	4,561.40	3,108.40	3,061.68	46.72	66.537		
4,300.00	3,748.07	4,301.16	4,150.43	38.44	24.19	50.79	18.78	4,549.30	3,047.44	2,999.05	48.39	62.976		
4,400.00	3,826.19	4,386.00	4,231.73	39.76	24.72	52.18	2.39	4,531.39	2,987.20	2,936.94	50.26	59.433		
4,500.00	3,904.30	4,454.15	4,296.92	41.08	25.14	53.33	-10.81	4,516.53	2,927.59	2,875.47	52.11	56.176		
4,600.00	3,982.42	4,520.73	4,360.42	42.40	25.57	54.50	-24.19	4,501.69	2,868.93	2,814.90	54.03	53.101		
4,700.00	4,060.54	4,589.81	4,426.13	43.72	26.01	55.74	-38.48	4,485.87	2,811.23	2,755.20	56.03	50.177		
4,800.00	4,138.66	4,657.22	4,490.12	45.05	26.46	56.99	-52.61	4,470.09	2,754.57	2,696.49	58.08	47.423		
4,900.00	4,216.77	4,729.16	4,558.40	46.37	26.93	58.34	-67.45	4,452.94	2,699.02	2,638.80	60.22	44.816		
5,000.00	4,294.89	4,787.90	4,614.26	47.69	27.31	59.47	-78.89	4,438.84	2,644.61	2,582.26	62.34	42.421		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,824.76	4,649.30	49.02	27.55	60.19	-86.26	4,430.10	2,591.98	2,527.58	64.39	40.251		
5,200.00	4,451.12	4,866.00	4,688.46	50.34	27.82	61.00	-94.92	4,420.49	2,541.40	2,474.87	66.53	38.202		
5,300.00	4,529.24	4,901.89	4,722.55	51.67	28.05	61.72	-102.61	4,412.32	2,492.94	2,424.27	68.67	36.304		
5,400.00	4,607.36	4,943.81	4,762.47	52.99	28.33	62.57	-111.48	4,403.08	2,446.67	2,375.78	70.89	34.515		
5,500.00	4,685.47	5,009.03	4,824.70	54.32	28.74	63.90	-125.03	4,389.03	2,402.50	2,329.21	73.29	32.780		
5,600.00	4,763.59	5,074.53	4,887.21	55.64	29.16	65.25	-138.28	4,374.65	2,359.99	2,284.25	75.73	31.162		
5,700.00	4,841.71	5,125.15	4,935.62	56.97	29.47	66.31	-148.27	4,363.73	2,319.66	2,241.57	78.10	29.703		
5,800.00	4,919.83	5,179.37	4,987.63	58.30	29.80	67.45	-158.61	4,352.42	2,281.70	2,201.22	80.49	28.349		
5,900.00	4,997.94	5,238.29	5,044.48	59.62	30.15	68.67	-168.85	4,340.86	2,246.06	2,163.16	82.90	27.094		
6,000.00	5,076.06	5,289.49	5,094.22	60.95	30.42	69.73	-176.80	4,331.65	2,212.85	2,127.63	85.22	25.966		
6,100.00	5,154.18	5,343.24	5,146.78	62.28	30.70	70.82	-184.09	4,323.10	2,182.21	2,094.68	87.53	24.932		
6,200.00	5,232.29	5,396.41	5,199.04	63.61	30.95	71.89	-190.48	4,315.69	2,154.17	2,064.40	89.77	23.996		
6,300.00	5,310.41	5,449.76	5,251.69	64.93	31.18	72.95	-196.23	4,309.25	2,128.78	2,036.81	91.97	23.147		
6,400.00	5,388.53	5,502.33	5,303.73	66.26	31.40	73.98	-201.39	4,303.94	2,106.14	2,012.03	94.10	22.381		
6,500.00	5,466.64	5,566.13	5,367.07	67.59	31.64	75.21	-206.98	4,298.73	2,086.14	1,989.92	96.22	21.680		
6,600.00	5,544.76	5,638.63	5,439.21	68.92	31.90	76.59	-212.35	4,293.98	2,068.41	1,970.10	98.31	21.041		
6,700.00	5,622.88	5,717.79	5,518.18	70.25	32.15	78.07	-216.61	4,290.46	2,052.68	1,952.36	100.32	20.460		
6,800.00	5,701.00	5,801.79	5,602.11	71.58	32.38	79.60	-219.29	4,288.55	2,038.74	1,936.48	102.26	19.937		
6,900.00	5,779.11	5,884.62	5,684.93	72.91	32.57	81.07	-220.41	4,288.19	2,026.47	1,922.38	104.09	19.469		
7,000.00	5,857.23	5,963.08	5,763.38	74.23	32.73	82.44	-220.79	4,288.57	2,015.94	1,910.11	105.84	19.048		
7,100.00	5,935.35	6,041.69	5,842.00	75.56	32.90	83.84	-221.25	4,288.84	2,007.31	1,899.77	107.53	18.667		
7,200.00	6,013.46	6,118.74	5,919.05	76.89	33.07	85.22	-221.79	4,288.95	2,000.57	1,891.40	109.17	18.326		
7,300.00	6,091.58	6,194.44	5,994.74	78.22	33.24	86.57	-222.40	4,289.09	1,995.86	1,885.13	110.73	18.025		
7,400.00	6,169.70	6,272.38	6,072.67	79.55	33.42	87.97	-223.06	4,289.27	1,993.15	1,880.93	112.23	17.760		
7,495.36	6,244.19	6,350.20	6,150.49	80.82	33.59	89.37	-223.59	4,289.56	1,992.33	1,878.74	113.59	17.540		
7,500.00	6,247.81	6,353.99	6,154.28	80.88	33.60	89.44	-223.61	4,289.57	1,992.33	1,878.68	113.65	17.530		
7,600.00	6,325.93	6,435.15	6,235.45	82.21	33.78	90.89	-223.98	4,289.93	1,993.33	1,878.33	114.99	17.335		
7,700.00	6,404.05	6,515.92	6,316.21	83.54	33.96	92.34	-224.28	4,290.17	1,996.16	1,879.91	116.25	17.171		
7,800.00	6,482.17	6,595.17	6,395.46	84.87	34.14	93.75	-224.55	4,290.25	2,000.86	1,883.42	117.43	17.038		
7,900.00	6,560.28	6,674.74	6,475.03	86.20	34.32	95.17	-224.76	4,290.41	2,007.46	1,888.93	118.53	16.936		
8,000.00	6,638.40	6,753.89	6,554.18	87.53	34.50	96.57	-224.88	4,290.54	2,015.88	1,896.34	119.54	16.864		
8,100.00	6,716.52	6,825.21	6,625.50	88.86	34.66	97.83	-225.09	4,290.80	2,026.32	1,905.88	120.45	16.823		
8,200.00	6,794.63	6,901.86	6,702.15	90.20	34.83	99.17	-225.44	4,291.26	2,038.79	1,917.50	121.29	16.809		
8,300.00	6,872.75	6,980.68	6,780.96	91.53	35.01	100.53	-225.80	4,291.90	2,053.09	1,931.03	122.06	16.820		
8,400.00	6,950.87	7,061.49	6,861.77	92.86	35.19	101.90	-226.06	4,292.79	2,069.09	1,946.32	122.77	16.854		
8,500.00	7,028.98	7,141.46	6,941.74	94.19	35.36	103.25	-226.25	4,293.51	2,086.70	1,963.31	123.40	16.911		
8,600.00	7,107.10	7,218.85	7,019.12	95.52	35.54	104.54	-226.46	4,294.15	2,106.00	1,982.05	123.95	16.990		
8,647.91	7,144.53	7,255.88	7,056.15	96.16	35.62	105.16	-226.57	4,294.45	2,115.85	1,991.65	124.20	17.036		
8,650.00	7,146.16	7,257.50	7,057.77	96.18	35.63	104.94	-226.58	4,294.46	2,116.28	1,992.07	124.21	17.038		
8,700.00	7,185.66	7,296.58	7,096.85	96.84	35.72	99.47	-226.71	4,294.78	2,124.66	2,000.21	124.45	17.072		
8,750.00	7,225.78	7,335.86	7,136.13	97.47	35.81	93.51	-226.86	4,295.09	2,129.14	2,004.46	124.68	17.076		
8,800.00	7,266.21	7,375.41	7,175.67	98.08	35.90	87.28	-227.03	4,295.39	2,129.69	2,004.79	124.90	17.051		
8,850.00	7,306.63	7,415.68	7,215.95	98.64	35.99	81.04	-227.22	4,295.67	2,126.30	2,001.20	125.10	16.996		
8,900.00	7,346.75	7,456.14	7,256.40	99.17	36.09	75.04	-227.41	4,295.92	2,118.97	1,993.68	125.28	16.913		
8,950.00	7,386.25	7,495.93	7,296.19	99.64	36.19	69.49	-227.60	4,296.12	2,107.73	1,982.29	125.44	16.803		
9,000.00	7,424.84	7,534.77	7,335.03	100.06	36.28	64.51	-227.78	4,296.28	2,092.65	1,967.09	125.56	16.667		
9,050.00	7,462.22	7,572.36	7,372.62	100.42	36.37	60.19	-227.96	4,296.40	2,073.83	1,948.19	125.65	16.505		
9,100.00	7,498.11	7,607.62	7,407.88	100.74	36.46	56.51	-228.13	4,296.50	2,051.39	1,925.69	125.70	16.320		
9,150.00	7,532.24	7,641.09	7,441.35	100.99	36.54	53.49	-228.31	4,296.64	2,025.48	1,899.76	125.72	16.111		
9,200.00	7,564.34	7,672.68	7,472.94	101.19	36.62	51.09	-228.49	4,296.82	1,996.25	1,870.54	125.71	15.880		
9,250.00	7,594.17	7,704.99	7,505.25	101.34	36.70	49.34	-228.67	4,297.03	1,963.87	1,838.19	125.68	15.626		
9,300.00	7,621.50	7,734.61	7,534.87	101.45	36.77	48.19	-228.80	4,297.25	1,928.52	1,802.90	125.62	15.352		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,761.27	7,561.53	101.50	36.84	47.62	-228.90	4,297.45	1,890.43	1,764.90	125.53	15.059		
9,400.00	7,667.87	7,783.95	7,584.21	101.51	36.89	47.66	-228.97	4,297.64	1,849.87	1,724.45	125.42	14.749		
9,450.00	7,686.55	7,803.22	7,603.47	101.48	36.94	48.44	-229.02	4,297.80	1,807.10	1,681.81	125.29	14.423		
9,500.00	7,702.04	7,819.19	7,619.44	101.42	36.97	50.18	-229.06	4,297.93	1,762.41	1,637.27	125.15	14.083		
9,550.00	7,714.20	7,831.76	7,632.01	101.33	37.00	53.32	-229.09	4,298.04	1,716.10	1,591.10	124.99	13.729		
9,600.00	7,722.96	7,840.83	7,641.09	101.20	37.03	58.84	-229.11	4,298.12	1,668.46	1,543.62	124.84	13.365		
9,650.00	7,728.24	7,846.34	7,646.60	101.06	37.04	69.03	-229.12	4,298.16	1,619.82	1,495.13	124.70	12.990		
9,699.97	7,730.00	7,848.26	7,648.51	100.90	37.04	89.60	-229.12	4,298.18	1,570.55	1,445.98	124.57	12.608		
9,800.00	7,730.00	7,848.47	7,648.72	100.56	37.04	89.66	-229.13	4,298.18	1,471.54	1,347.23	124.31	11.838		
9,900.00	7,730.00	7,848.69	7,648.94	100.24	37.04	89.72	-229.13	4,298.18	1,372.70	1,248.70	124.01	11.070		
10,000.00	7,730.00	7,848.90	7,649.16	99.93	37.04	89.78	-229.13	4,298.18	1,274.05	1,150.40	123.65	10.304		
10,100.00	7,730.00	7,849.12	7,649.37	99.64	37.04	89.83	-229.13	4,298.19	1,175.63	1,052.41	123.22	9.541		
10,200.00	7,730.00	7,849.34	7,649.59	99.36	37.05	89.89	-229.13	4,298.19	1,077.49	954.80	122.69	8.782		
10,300.00	7,730.00	7,849.55	7,649.80	99.09	37.05	89.95	-229.13	4,298.19	979.74	857.69	122.04	8.028		
10,400.00	7,730.00	7,849.76	7,650.02	98.84	37.05	90.00	-229.13	4,298.19	882.48	761.27	121.21	7.280		
10,500.00	7,730.00	7,849.98	7,650.23	98.61	37.05	90.06	-229.13	4,298.19	785.92	665.79	120.13	6.542		
10,600.00	7,730.00	7,850.19	7,650.44	98.39	37.05	90.12	-229.13	4,298.19	690.33	571.67	118.66	5.818		
10,700.00	7,730.00	7,850.40	7,650.66	98.18	37.05	90.17	-229.13	4,298.20	596.20	479.59	116.61	5.113		
10,800.00	7,730.00	7,850.62	7,650.87	97.99	37.05	90.23	-229.13	4,298.20	504.32	390.73	113.59	4.440		
10,900.00	7,730.00	7,850.83	7,651.08	97.81	37.05	90.29	-229.13	4,298.20	416.21	307.29	108.92	3.821		
11,000.00	7,730.00	7,851.04	7,651.29	97.64	37.05	90.34	-229.13	4,298.20	334.85	233.44	101.40	3.302		
11,100.00	7,730.00	7,851.25	7,651.50	97.50	37.05	90.40	-229.13	4,298.20	266.48	176.83	89.66	2.972		
11,200.00	7,730.00	7,851.46	7,651.71	97.36	37.05	90.45	-229.13	4,298.21	223.39	145.29	78.10	2.860		
11,255.55	7,730.00	7,851.58	7,651.83	97.29	37.05	90.49	-229.13	4,298.21	216.37	136.33	80.04	2.703 CC		
11,300.00	7,730.00	7,851.67	7,651.93	97.24	37.05	90.51	-229.13	4,298.21	220.89	133.25	87.64	2.520 ES		
11,400.00	7,730.00	7,851.88	7,652.14	97.14	37.05	90.57	-229.13	4,298.21	260.16	152.40	107.76	2.414 SF		
11,500.00	7,730.00	7,852.09	7,652.35	97.06	37.05	90.62	-229.13	4,298.21	326.46	206.98	119.48	2.732		
11,600.00	7,730.00	7,852.30	7,652.55	96.98	37.05	90.68	-229.13	4,298.21	406.77	281.91	124.86	3.258		
11,700.00	7,730.00	7,852.51	7,652.76	96.93	37.05	90.73	-229.13	4,298.21	494.32	366.98	127.34	3.882		
11,800.00	7,730.00	7,852.72	7,652.97	96.90	37.05	90.79	-229.13	4,298.22	585.87	457.34	128.53	4.558		
11,900.00	7,730.00	7,852.93	7,653.18	96.88	37.05	90.84	-229.13	4,298.22	679.81	550.69	129.11	5.265		
12,000.00	7,730.00	7,853.14	7,653.39	96.88	37.05	90.90	-229.13	4,298.22	775.26	645.87	129.39	5.991		
12,100.00	7,730.00	7,853.34	7,653.59	96.90	37.05	90.95	-229.14	4,298.22	871.73	742.21	129.52	6.731		
12,200.00	7,730.00	7,853.55	7,653.80	96.94	37.06	91.01	-229.14	4,298.22	968.92	839.36	129.56	7.479		
12,300.00	7,730.00	7,853.76	7,654.01	97.00	37.06	91.06	-229.14	4,298.22	1,066.63	937.07	129.56	8.233		
12,400.00	7,730.00	7,853.96	7,654.21	97.08	37.06	91.12	-229.14	4,298.23	1,164.73	1,035.20	129.53	8.992		
12,500.00	7,730.00	7,854.17	7,654.42	97.18	37.06	91.17	-229.14	4,298.23	1,263.12	1,133.64	129.48	9.755		
12,600.00	7,730.00	7,854.37	7,654.62	97.31	37.06	91.22	-229.14	4,298.23	1,361.75	1,232.32	129.43	10.521		
12,700.00	7,730.00	7,854.58	7,654.83	97.46	37.06	91.28	-229.14	4,298.23	1,460.57	1,331.19	129.38	11.289		
12,800.00	7,730.00	7,854.78	7,655.03	97.64	37.06	91.33	-229.14	4,298.23	1,559.53	1,430.21	129.33	12.059		
12,900.00	7,730.00	7,854.99	7,655.24	97.85	37.06	91.39	-229.14	4,298.24	1,658.62	1,529.35	129.28	12.830		
13,000.00	7,730.00	7,855.19	7,655.44	98.09	37.06	91.44	-229.14	4,298.24	1,757.82	1,628.59	129.23	13.603		
13,100.00	7,730.00	7,855.39	7,655.65	98.35	37.06	91.49	-229.14	4,298.24	1,857.10	1,727.92	129.18	14.376		
13,200.00	7,730.00	7,855.60	7,655.85	98.65	37.06	91.55	-229.14	4,298.24	1,956.45	1,827.31	129.14	15.150		
13,300.00	7,730.00	7,855.80	7,656.05	98.98	37.06	91.60	-229.14	4,298.24	2,055.87	1,926.77	129.09	15.925		
13,400.00	7,730.00	7,856.00	7,656.25	99.34	37.06	91.66	-229.14	4,298.24	2,155.34	2,026.28	129.06	16.701		
13,500.00	7,730.00	7,856.20	7,656.45	99.74	37.06	91.71	-229.14	4,298.25	2,254.85	2,125.83	129.02	17.477		
13,600.00	7,730.00	7,856.40	7,656.66	100.17	37.06	91.76	-229.14	4,298.25	2,354.41	2,225.43	128.99	18.253		
13,700.00	7,730.00	7,856.60	7,656.86	100.65	37.06	91.82	-229.14	4,298.25	2,454.01	2,325.05	128.96	19.030		
13,800.00	7,730.00	7,856.81	7,657.06	101.16	37.06	91.87	-229.14	4,298.25	2,553.63	2,424.70	128.93	19.807		
13,900.00	7,730.00	7,857.01	7,657.26	101.71	37.06	91.92	-229.14	4,298.25	2,653.28	2,524.38	128.90	20.584		
14,000.00	7,730.00	7,857.21	7,657.46	102.30	37.06	91.97	-229.14	4,298.25	2,752.96	2,624.09	128.88	21.361		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 109-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,857.40	7,657.66	102.93	37.06	92.03	-229.14	4,298.26	2,852.67	2,723.81	128.85	22.139		
14,200.00	7,730.00	7,857.60	7,657.86	103.60	37.07	92.08	-229.14	4,298.26	2,952.39	2,823.55	128.83	22.916		
14,300.00	7,730.00	7,857.80	7,658.05	104.32	37.07	92.13	-229.14	4,298.26	3,052.13	2,923.31	128.82	23.694		
14,400.00	7,730.00	7,858.00	7,658.25	105.07	37.07	92.18	-229.15	4,298.26	3,151.88	3,023.08	128.80	24.471		
14,500.00	7,730.00	7,858.20	7,658.45	105.86	37.07	92.24	-229.15	4,298.26	3,251.65	3,122.87	128.78	25.249		
14,600.00	7,730.00	7,858.40	7,658.65	106.70	37.07	92.29	-229.15	4,298.26	3,351.44	3,222.67	128.77	26.027		
14,700.00	7,730.00	7,858.59	7,658.85	107.57	37.07	92.34	-229.15	4,298.27	3,451.24	3,322.48	128.76	26.804		
14,800.00	7,730.00	7,858.79	7,659.04	108.48	37.07	92.39	-229.15	4,298.27	3,551.04	3,422.30	128.74	27.582		
14,900.00	7,730.00	7,858.99	7,659.24	109.43	37.07	92.45	-229.15	4,298.27	3,650.86	3,522.13	128.73	28.360		
15,000.00	7,730.00	7,859.18	7,659.44	110.42	37.07	92.50	-229.15	4,298.27	3,750.69	3,621.97	128.73	29.137		
15,100.00	7,730.00	7,859.38	7,659.63	111.43	37.07	92.55	-229.15	4,298.27	3,850.53	3,721.81	128.72	29.914		
15,200.00	7,730.00	7,859.57	7,659.83	112.49	37.07	92.60	-229.15	4,298.27	3,950.38	3,821.66	128.71	30.692		
15,300.00	7,730.00	7,859.77	7,660.02	113.57	37.07	92.65	-229.15	4,298.28	4,050.23	3,921.52	128.71	31.469		
15,400.00	7,730.00	7,859.96	7,660.22	114.68	37.07	92.70	-229.15	4,298.28	4,150.09	4,021.39	128.70	32.246		
15,500.00	7,730.00	7,860.17	7,660.42	115.82	37.07	92.76	-229.15	4,298.28	4,249.96	4,121.26	128.70	33.023		
15,600.00	7,730.00	7,860.37	7,660.63	116.99	37.07	92.81	-229.15	4,298.28	4,349.83	4,221.13	128.70	33.799		
15,700.00	7,730.00	7,860.58	7,660.83	118.19	37.07	92.87	-229.15	4,298.28	4,449.71	4,321.01	128.69	34.576		
15,800.00	7,730.00	7,860.79	7,661.04	119.41	37.07	92.92	-229.15	4,298.28	4,549.59	4,420.90	128.69	35.352		
15,900.00	7,730.00	7,861.00	7,661.25	120.65	37.07	92.98	-229.15	4,298.29	4,649.48	4,520.79	128.69	36.129		
16,000.00	7,730.00	7,861.20	7,661.46	121.91	37.07	93.03	-229.15	4,298.29	4,749.37	4,620.68	128.69	36.905		
16,100.00	7,730.00	7,861.41	7,661.66	123.20	37.07	93.09	-229.15	4,298.29	4,849.27	4,720.58	128.69	37.680		
16,200.00	7,730.00	7,861.62	7,661.87	124.50	37.07	93.14	-229.15	4,298.29	4,949.18	4,820.48	128.70	38.456		
16,300.00	7,730.00	7,861.83	7,662.08	125.82	37.08	93.20	-229.15	4,298.29	5,049.08	4,920.38	128.70	39.231		
16,400.00	7,730.00	7,862.04	7,662.29	127.16	37.08	93.25	-229.15	4,298.29	5,148.99	5,020.29	128.70	40.007		
16,500.00	7,730.00	7,862.24	7,662.50	128.52	37.08	93.31	-229.15	4,298.30	5,248.90	5,120.20	128.71	40.781		
16,600.00	7,730.00	7,862.45	7,662.70	129.89	37.08	93.36	-229.15	4,298.30	5,348.82	5,220.11	128.71	41.556		
16,700.00	7,730.00	7,862.66	7,662.91	131.27	37.08	93.42	-229.15	4,298.30	5,448.74	5,320.02	128.72	42.331		
16,800.00	7,730.00	7,862.87	7,663.12	132.67	37.08	93.47	-229.16	4,298.30	5,548.66	5,419.94	128.72	43.105		
16,900.00	7,730.00	7,863.08	7,663.33	134.09	37.08	93.53	-229.16	4,298.30	5,648.59	5,519.86	128.73	43.879		
17,000.00	7,730.00	7,863.29	7,663.54	135.51	37.08	93.58	-229.16	4,298.31	5,748.51	5,619.78	128.74	44.652		
17,100.00	7,730.00	7,863.50	7,663.75	136.95	37.08	93.64	-229.16	4,298.31	5,848.45	5,719.70	128.75	45.426		
17,200.00	7,730.00	7,863.71	7,663.96	138.40	37.08	93.69	-229.16	4,298.31	5,948.38	5,819.62	128.76	46.199		
17,300.00	7,730.00	7,863.92	7,664.17	139.85	37.08	93.75	-229.16	4,298.31	6,048.31	5,919.55	128.76	46.972		
17,400.00	7,730.00	7,864.13	7,664.38	141.32	37.08	93.80	-229.16	4,298.31	6,148.25	6,019.47	128.77	47.744		
17,500.00	7,730.00	7,864.34	7,664.59	142.80	37.08	93.86	-229.16	4,298.31	6,248.19	6,119.40	128.78	48.517		
17,600.00	7,730.00	7,864.55	7,664.80	144.28	37.08	93.92	-229.16	4,298.32	6,348.13	6,219.33	128.79	49.289		
17,700.00	7,730.00	7,864.76	7,665.02	145.78	37.08	93.97	-229.16	4,298.32	6,448.07	6,319.27	128.81	50.060		
17,800.00	7,730.00	7,864.98	7,665.23	147.28	37.08	94.03	-229.16	4,298.32	6,548.02	6,419.20	128.82	50.832		
17,900.00	7,730.00	7,865.19	7,665.44	148.79	37.08	94.08	-229.16	4,298.32	6,647.96	6,519.13	128.83	51.603		
18,000.00	7,730.00	7,865.40	7,665.65	150.31	37.08	94.14	-229.16	4,298.32	6,747.91	6,619.07	128.84	52.373		
18,100.00	7,730.00	7,865.61	7,665.86	151.83	37.08	94.20	-229.16	4,298.33	6,847.86	6,719.00	128.86	53.144		
18,200.00	7,730.00	7,865.82	7,666.07	153.37	37.08	94.25	-229.16	4,298.33	6,947.81	6,818.94	128.87	53.914		
18,300.00	7,730.00	7,866.04	7,666.29	154.90	37.09	94.31	-229.16	4,298.33	7,047.76	6,918.88	128.88	54.684		
18,400.00	7,730.00	7,866.25	7,666.50	156.45	37.09	94.36	-229.16	4,298.33	7,147.71	7,018.82	128.90	55.453		
18,500.00	7,730.00	7,866.46	7,666.71	158.00	37.09	94.42	-229.16	4,298.33	7,247.67	7,118.76	128.91	56.222		
18,600.00	7,730.00	7,866.67	7,666.93	159.55	37.09	94.48	-229.16	4,298.33	7,347.62	7,218.70	128.93	56.990		
18,700.00	7,730.00	7,866.89	7,667.14	161.11	37.09	94.53	-229.16	4,298.34	7,447.58	7,318.64	128.94	57.759		
18,800.00	7,730.00	7,867.10	7,667.35	162.68	37.09	94.59	-229.16	4,298.34	7,547.54	7,418.58	128.96	58.527		
18,900.00	7,730.00	7,867.32	7,667.57	164.25	37.09	94.64	-229.16	4,298.34	7,647.50	7,518.52	128.98	59.294		
19,000.00	7,730.00	7,867.53	7,667.78	165.83	37.09	94.70	-229.16	4,298.34	7,747.46	7,618.47	128.99	60.061		
19,100.00	7,730.00	7,867.74	7,668.00	167.41	37.09	94.76	-229.17	4,298.34	7,847.42	7,718.41	129.01	60.828		
19,200.00	7,730.00	7,867.96	7,668.21	168.99	37.09	94.81	-229.17	4,298.35	7,947.38	7,818.36	129.03	61.594		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		109-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,868.17	7,668.42	170.58	37.09	94.87	-229.17	4,298.35	8,047.35	7,918.30	129.05	62.360	
19,400.00	7,730.00	7,868.39	7,668.64	172.17	37.09	94.93	-229.17	4,298.35	8,147.31	8,018.25	129.06	63.126	
19,430.54	7,730.00	7,868.45	7,668.70	172.66	37.09	94.94	-229.17	4,298.35	8,177.84	8,048.77	129.07	63.360	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.52	-2,069.07	2,104.12	2,951.33					
100.00	100.00	72.79	72.79	0.13	0.12	134.52	-2,068.96	2,103.92	2,950.83	2,950.57	0.25	N/A		
200.00	200.00	185.52	185.51	0.49	0.43	134.52	-2,068.39	2,103.00	2,949.88	2,948.96	0.92	3,211.581		
300.00	300.00	300.84	300.83	0.85	0.84	134.52	-2,067.40	2,101.98	2,948.65	2,946.96	1.69	1,744.460		
400.00	400.00	395.99	395.97	1.21	1.18	134.52	-2,066.41	2,100.97	2,947.17	2,944.78	2.39	1,233.398		
500.00	500.00	486.91	486.88	1.57	1.50	134.52	-2,065.28	2,100.52	2,945.94	2,942.87	3.07	959.333		
600.00	599.98	646.34	646.26	1.92	2.07	69.24	-2,061.90	2,098.85	2,943.00	2,939.01	3.99	736.721		
700.00	699.84	766.47	766.31	2.28	2.51	69.44	-2,058.28	2,096.55	2,937.67	2,932.89	4.78	614.646		
800.00	799.45	856.34	856.11	2.64	2.83	69.68	-2,055.18	2,095.05	2,930.99	2,925.53	5.46	536.508		
900.00	898.70	1,722.01	1,707.48	3.02	6.42	71.81	-1,948.39	2,008.86	2,916.33	2,907.47	8.85	329.409		
1,000.00	997.47	1,976.80	1,949.01	3.41	7.85	73.31	-1,887.72	1,955.26	2,880.16	2,870.05	10.12	284.703		
1,100.00	1,095.62	2,127.92	2,090.13	3.84	8.81	74.75	-1,846.78	1,919.96	2,838.88	2,827.83	11.05	256.805		
1,200.00	1,193.06	2,203.73	2,160.65	4.29	9.30	76.02	-1,826.02	1,901.44	2,796.05	2,784.28	11.77	237.551		
1,300.00	1,289.64	2,267.66	2,220.34	4.78	9.72	77.32	-1,808.98	1,886.19	2,753.43	2,740.95	12.48	220.578		
1,400.00	1,385.27	2,346.30	2,293.92	5.32	10.24	78.79	-1,788.69	1,867.23	2,710.78	2,697.50	13.28	204.078		
1,500.00	1,479.82	2,427.03	2,369.51	5.90	10.77	80.37	-1,767.89	1,847.98	2,668.03	2,653.89	14.14	188.731		
1,600.00	1,573.17	2,506.74	2,444.19	6.53	11.30	82.01	-1,746.86	1,829.68	2,625.27	2,610.23	15.04	174.566		
1,700.00	1,665.21	2,605.60	2,536.77	7.23	11.96	83.94	-1,720.54	1,807.08	2,582.45	2,566.40	16.05	160.880		
1,800.00	1,755.84	2,687.85	2,613.62	7.98	12.52	85.82	-1,698.69	1,787.58	2,539.44	2,522.36	17.08	148.683		
1,900.00	1,844.94	2,759.76	2,680.86	8.80	13.01	87.65	-1,679.61	1,770.66	2,497.05	2,478.90	18.15	137.602		
2,000.00	1,932.39	2,838.62	2,754.68	9.68	13.55	89.63	-1,658.44	1,752.75	2,455.63	2,436.32	19.30	127.205		
2,100.00	2,018.11	2,956.67	2,864.73	10.63	14.38	92.29	-1,626.49	1,724.39	2,414.45	2,393.82	20.63	117.040		
2,200.00	2,101.97	3,049.48	2,950.72	11.65	15.05	94.68	-1,600.21	1,701.40	2,373.41	2,351.44	21.97	108.030		
2,300.00	2,183.88	3,114.22	3,010.63	12.74	15.52	96.65	-1,581.86	1,685.12	2,333.92	2,310.59	23.34	100.013		
2,400.00	2,263.74	3,163.11	3,055.97	13.90	15.87	98.34	-1,568.35	1,672.82	2,296.87	2,272.10	24.76	92.750		
2,431.61	2,288.54	3,178.23	3,070.03	14.29	15.98	98.87	-1,564.24	1,669.03	2,285.74	2,260.51	25.23	90.586		
2,500.00	2,341.97	3,221.97	3,110.71	15.13	16.30	99.71	-1,552.48	1,658.10	2,262.51	2,236.22	26.29	86.063		
2,600.00	2,420.08	3,298.58	3,181.92	16.37	16.85	101.19	-1,531.41	1,639.27	2,230.03	2,202.15	27.89	79.972		
2,700.00	2,498.20	3,365.91	3,244.44	17.63	17.34	102.52	-1,512.78	1,622.60	2,199.50	2,170.00	29.50	74.562		
2,800.00	2,576.32	3,444.24	3,317.05	18.89	17.91	104.08	-1,491.04	1,602.84	2,170.95	2,139.79	31.16	69.679		
2,900.00	2,654.43	3,535.28	3,401.14	20.17	18.59	105.94	-1,465.14	1,579.47	2,144.14	2,111.29	32.85	65.271		
3,000.00	2,732.55	3,602.84	3,463.31	21.45	19.10	107.33	-1,445.33	1,561.94	2,119.06	2,084.53	34.53	61.363		
3,100.00	2,810.67	3,654.05	3,510.57	22.74	19.49	108.39	-1,420.42	1,549.03	2,096.78	2,060.56	36.21	57.898		
3,200.00	2,888.78	3,700.28	3,553.39	24.03	19.83	109.35	-1,417.20	1,537.68	2,077.51	2,039.62	37.90	54.820		
3,300.00	2,966.90	3,745.38	3,595.32	25.33	20.16	110.29	-1,404.70	1,526.80	2,061.48	2,021.90	39.58	52.087		
3,400.00	3,045.02	3,812.92	3,658.31	26.63	20.65	111.70	-1,386.32	1,510.77	2,048.49	2,007.22	41.27	49.636		
3,500.00	3,123.13	3,890.11	3,730.21	27.94	21.21	113.31	-1,364.94	1,492.52	2,037.84	1,994.88	42.96	47.434		
3,600.00	3,201.25	3,963.64	3,798.38	29.24	21.75	114.88	-1,344.50	1,474.07	2,029.61	1,984.98	44.64	45.471		
3,700.00	3,279.37	4,034.18	3,863.75	30.55	22.27	116.39	-1,324.67	1,456.48	2,023.99	1,977.70	46.29	43.726		
3,800.00	3,357.49	4,097.33	3,922.35	31.86	22.74	117.73	-1,306.79	1,441.19	2,021.09	1,973.19	47.90	42.197		
3,850.03	3,396.57	4,128.67	3,951.49	32.52	22.97	118.39	-1,297.94	1,433.77	2,020.73	1,972.04	48.69	41.504 CC		
3,900.00	3,435.60	4,158.02	3,978.80	33.18	23.18	119.01	-1,289.68	1,426.88	2,021.10	1,971.63	49.46	40.859 ES		
4,000.00	3,513.72	4,215.00	4,031.85	34.49	23.60	120.22	-1,273.84	1,413.41	2,024.13	1,973.15	50.99	39.700		
4,100.00	3,591.84	4,292.57	4,104.07	35.81	24.16	121.86	-1,252.37	1,394.97	2,029.99	1,977.52	52.48	38.681		
4,200.00	3,669.95	4,365.91	4,172.21	37.12	24.70	123.40	-1,231.57	1,377.57	2,038.10	1,984.17	53.92	37.797		
4,300.00	3,748.07	4,429.42	4,231.13	38.44	25.17	124.74	-1,213.55	1,362.16	2,048.91	1,993.60	55.30	37.049		
4,400.00	3,826.19	4,488.51	4,285.99	39.76	25.61	125.98	-1,196.93	1,347.83	2,062.56	2,005.94	56.62	36.428		
4,500.00	3,904.30	4,542.59	4,336.33	41.08	26.00	127.10	-1,181.95	1,334.92	2,079.10	2,021.23	57.87	35.930		
4,600.00	3,982.42	4,592.75	4,383.20	42.40	26.36	128.13	-1,168.46	1,323.18	2,098.65	2,039.62	59.04	35.548		
4,700.00	4,060.54	4,641.41	4,428.85	43.72	26.70	129.11	-1,155.82	1,312.07	2,121.18	2,061.05	60.13	35.275		
4,800.00	4,138.66	4,689.93	4,474.62	45.05	27.03	130.08	-1,143.74	1,301.41	2,146.62	2,085.46	61.16	35.098		
4,900.00	4,216.77	4,739.35	4,521.47	46.37	27.35	131.03	-1,132.00	1,291.00	2,174.82	2,112.71	62.12	35.012		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,789.57	4,569.33	47.69	27.67	131.99	-1,120.62	1,280.85	2,205.65	2,142.64	63.01	35.004	SF	
5,100.00	4,373.01	4,835.69	4,613.50	49.02	27.95	132.84	-1,110.76	1,271.97	2,239.03	2,175.20	63.82	35.081		
5,200.00	4,451.12	4,881.73	4,657.85	50.34	28.22	133.67	-1,101.64	1,263.64	2,274.91	2,210.33	64.58	35.225		
5,300.00	4,529.24	4,942.18	4,716.38	51.67	28.56	134.72	-1,090.48	1,253.42	2,312.99	2,247.66	65.33	35.405		
5,400.00	4,607.36	5,003.57	4,776.01	52.99	28.89	135.75	-1,079.61	1,243.69	2,352.76	2,286.72	66.04	35.628		
5,500.00	4,685.47	5,055.95	4,827.07	54.32	29.16	136.60	-1,070.95	1,235.86	2,394.39	2,327.72	66.67	35.915		
5,600.00	4,763.59	5,112.38	4,882.27	55.64	29.44	137.48	-1,062.35	1,227.91	2,437.82	2,370.55	67.28	36.236		
5,700.00	4,841.71	5,172.60	4,941.33	56.97	29.72	138.39	-1,053.78	1,219.91	2,482.80	2,414.93	67.87	36.583		
5,800.00	4,919.83	5,234.70	5,002.50	58.30	29.99	139.28	-1,045.88	1,212.71	2,529.16	2,460.73	68.43	36.962		
5,900.00	4,997.94	5,297.55	5,064.74	59.62	30.24	140.11	-1,039.16	1,207.12	2,576.75	2,507.78	68.97	37.358		
6,000.00	5,076.06	5,359.59	5,126.35	60.95	30.47	140.89	-1,033.51	1,202.61	2,625.50	2,556.01	69.50	37.779		
6,100.00	5,154.18	5,428.41	5,194.86	62.28	30.70	141.70	-1,028.25	1,198.68	2,675.25	2,605.22	70.03	38.203		
6,200.00	5,232.29	5,503.19	5,269.44	63.61	30.93	142.51	-1,023.61	1,195.79	2,725.75	2,655.18	70.58	38.622		
6,300.00	5,310.41	5,571.71	5,337.86	64.93	31.12	143.21	-1,020.26	1,194.44	2,776.81	2,705.72	71.09	39.062		
6,400.00	5,388.53	5,621.91	5,388.03	66.26	31.25	143.69	-1,018.59	1,193.87	2,828.93	2,757.43	71.49	39.569		
6,500.00	5,466.64	5,675.43	5,441.54	67.59	31.38	144.17	-1,017.59	1,193.47	2,882.19	2,810.28	71.91	40.083		
6,600.00	5,544.76	5,732.46	5,498.57	68.92	31.51	144.67	-1,017.09	1,193.09	2,936.40	2,864.07	72.32	40.600		
6,700.00	5,622.88	5,818.57	5,584.67	70.25	31.70	145.39	-1,016.82	1,192.76	2,991.17	2,918.27	72.90	41.030		
6,800.00	5,701.00	5,900.35	5,666.45	71.58	31.89	146.05	-1,016.41	1,192.65	3,045.99	2,972.53	73.46	41.467		
6,900.00	5,779.11	5,975.67	5,741.76	72.91	32.06	146.65	-1,015.71	1,192.14	3,101.10	3,027.13	73.97	41.925		
7,000.00	5,857.23	6,050.39	5,816.48	74.23	32.24	147.23	-1,015.04	1,191.50	3,156.60	3,082.12	74.48	42.384		
7,100.00	5,935.35	6,128.73	5,894.82	75.56	32.43	147.82	-1,014.30	1,190.76	3,212.38	3,137.38	75.00	42.830		
7,200.00	6,013.46	6,197.86	5,963.94	76.89	32.60	148.33	-1,013.70	1,190.01	3,268.53	3,193.06	75.48	43.305		
7,300.00	6,091.58	6,273.74	6,039.81	78.22	32.78	148.87	-1,013.14	1,189.11	3,325.05	3,249.06	75.99	43.758		
7,400.00	6,169.70	6,354.60	6,120.66	79.55	32.98	149.43	-1,012.53	1,188.16	3,381.78	3,305.26	76.53	44.190		
7,500.00	6,247.81	6,435.92	6,201.98	80.88	33.18	149.97	-1,011.84	1,187.29	3,438.62	3,361.55	77.07	44.615		
7,600.00	6,325.93	6,514.52	6,280.57	82.21	33.38	150.48	-1,011.26	1,186.61	3,495.64	3,418.04	77.60	45.045		
7,700.00	6,404.05	6,597.03	6,363.08	83.54	33.58	150.99	-1,010.84	1,186.18	3,552.80	3,474.64	78.16	45.456		
7,800.00	6,482.17	6,706.44	6,472.48	84.87	33.84	151.63	-1,010.39	1,186.57	3,609.74	3,530.86	78.88	45.763		
7,900.00	6,560.28	6,761.39	6,527.44	86.20	33.97	151.94	-1,010.15	1,186.68	3,666.86	3,587.59	79.27	46.257		
8,000.00	6,638.40	6,841.15	6,607.20	87.53	34.17	152.39	-1,009.67	1,186.50	3,724.34	3,644.52	79.82	46.662		
8,100.00	6,716.52	6,915.78	6,681.82	88.86	34.36	152.80	-1,009.01	1,186.23	3,781.87	3,701.55	80.33	47.080		
8,200.00	6,794.63	6,985.50	6,751.54	90.20	34.53	153.17	-1,008.60	1,185.91	3,839.77	3,758.96	80.81	47.514		
8,300.00	6,872.75	7,078.03	6,844.07	91.53	34.77	153.65	-1,008.04	1,185.63	3,897.73	3,816.29	81.44	47.858		
8,400.00	6,950.87	7,176.65	6,942.68	92.86	35.01	154.14	-1,007.31	1,185.84	3,955.47	3,873.35	82.12	48.170		
8,500.00	7,028.98	7,254.13	7,020.16	94.19	35.21	154.52	-1,006.60	1,186.07	4,013.18	3,930.52	82.66	48.553		
8,600.00	7,107.10	7,317.85	7,083.88	95.52	35.38	154.82	-1,005.94	1,186.06	4,071.13	3,988.02	83.11	48.984		
8,647.91	7,144.53	7,348.29	7,114.31	96.16	35.46	154.97	-1,005.62	1,185.93	4,099.04	4,015.71	83.33	49.191		
8,650.00	7,146.16	7,350.09	7,116.11	96.18	35.46	154.62	-1,005.60	1,185.92	4,100.26	4,016.92	83.34	49.198		
8,700.00	7,185.66	7,393.42	7,159.44	96.84	35.58	146.36	-1,005.03	1,185.61	4,128.04	4,044.39	83.64	49.354		
8,750.00	7,225.78	7,437.26	7,203.27	97.47	35.70	138.07	-1,004.28	1,185.18	4,153.12	4,069.18	83.94	49.478		
8,800.00	7,266.21	7,472.73	7,238.73	98.08	35.80	129.84	-1,003.58	1,184.74	4,175.40	4,091.22	84.18	49.601		
8,850.00	7,306.63	7,506.71	7,272.70	98.64	35.89	121.91	-1,002.86	1,184.21	4,194.80	4,110.39	84.40	49.700		
8,900.00	7,346.75	7,541.13	7,307.10	99.17	35.99	114.49	-1,002.11	1,183.58	4,211.22	4,126.60	84.62	49.769		
8,950.00	7,386.25	7,583.85	7,349.81	99.64	36.11	107.83	-1,001.26	1,182.88	4,224.54	4,139.67	84.87	49.776		
9,000.00	7,424.84	7,625.94	7,391.89	100.06	36.23	101.96	-1,000.59	1,182.40	4,234.67	4,149.56	85.11	49.755		
9,050.00	7,462.22	7,738.40	7,504.33	100.42	36.51	97.57	-1,000.21	1,183.77	4,241.31	4,155.52	85.79	49.440		
9,100.00	7,498.11	7,748.87	7,514.80	100.74	36.53	93.11	-1,000.25	1,183.98	4,244.56	4,158.78	85.79	49.478		
9,150.00	7,532.24	7,769.19	7,535.12	100.99	36.58	89.54	-1,000.34	1,184.41	4,244.77	4,158.94	85.83	49.456		
9,200.00	7,564.34	7,788.19	7,554.12	101.19	36.62	86.70	-1,000.43	1,184.73	4,241.97	4,156.13	85.84	49.417		
9,250.00	7,594.17	7,819.00	7,584.92	101.34	36.69	84.67	-1,000.57	1,185.08	4,236.25	4,150.34	85.91	49.312		
9,300.00	7,621.50	7,819.00	7,584.92	101.45	36.69	82.94	-1,000.57	1,185.08	4,227.55	4,141.80	85.75	49.300		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,836.94	7,602.86	101.50	36.74	82.00	-1,000.65	1,185.19	4,216.06	4,130.36	85.70	49.197		
9,400.00	7,667.87	7,850.24	7,616.16	101.51	36.77	81.57	-1,000.73	1,185.24	4,201.84	4,116.24	85.60	49.089		
9,450.00	7,686.55	7,861.70	7,627.62	101.48	36.80	81.65	-1,000.81	1,185.27	4,185.00	4,099.53	85.47	48.964		
9,500.00	7,702.04	7,871.26	7,637.18	101.42	36.82	82.22	-1,000.87	1,185.27	4,165.66	4,080.34	85.32	48.822		
9,550.00	7,714.20	7,878.83	7,644.75	101.33	36.84	83.29	-1,000.93	1,185.26	4,143.96	4,058.80	85.16	48.662		
9,600.00	7,722.96	7,884.37	7,650.29	101.20	36.85	84.86	-1,000.98	1,185.25	4,120.04	4,035.06	84.98	48.483		
9,650.00	7,728.24	7,887.81	7,653.73	101.06	36.86	86.92	-1,001.01	1,185.25	4,094.06	4,009.27	84.79	48.284		
9,699.97	7,730.00	7,889.15	7,655.06	100.90	36.86	89.48	-1,001.02	1,185.24	4,066.21	3,981.61	84.60	48.065		
9,800.00	7,730.00	7,889.68	7,655.60	100.56	36.86	89.49	-1,001.03	1,185.24	4,009.53	3,925.32	84.22	47.610		
9,900.00	7,730.00	7,890.21	7,656.13	100.24	36.86	89.50	-1,001.03	1,185.24	3,954.59	3,870.74	83.85	47.164		
10,000.00	7,730.00	7,890.75	7,656.67	99.93	36.87	89.51	-1,001.03	1,185.24	3,901.43	3,817.93	83.50	46.726		
10,100.00	7,730.00	7,891.29	7,657.21	99.64	36.87	89.52	-1,001.04	1,185.24	3,850.14	3,766.97	83.17	46.294		
10,200.00	7,730.00	7,891.84	7,657.76	99.36	36.87	89.53	-1,001.04	1,185.23	3,800.78	3,717.92	82.86	45.868		
10,300.00	7,730.00	7,892.39	7,658.31	99.09	36.87	89.54	-1,001.05	1,185.23	3,753.45	3,670.86	82.59	45.448		
10,400.00	7,730.00	7,892.95	7,658.87	98.84	36.87	89.55	-1,001.05	1,185.23	3,708.20	3,625.85	82.35	45.031		
10,500.00	7,730.00	7,893.51	7,659.43	98.61	36.87	89.56	-1,001.06	1,185.23	3,665.13	3,582.98	82.14	44.619		
10,600.00	7,730.00	7,894.08	7,659.99	98.39	36.87	89.57	-1,001.06	1,185.23	3,624.30	3,542.32	81.98	44.210		
10,700.00	7,730.00	7,894.65	7,660.56	98.18	36.88	89.58	-1,001.07	1,185.22	3,585.80	3,503.94	81.86	43.803		
10,800.00	7,730.00	7,895.22	7,661.14	97.99	36.88	89.59	-1,001.07	1,185.22	3,549.70	3,467.90	81.79	43.399		
10,900.00	7,730.00	7,895.80	7,661.72	97.81	36.88	89.60	-1,001.08	1,185.22	3,516.07	3,434.30	81.77	42.998		
11,000.00	7,730.00	7,896.38	7,662.30	97.64	36.88	89.61	-1,001.09	1,185.22	3,484.99	3,403.18	81.81	42.600		
11,100.00	7,730.00	7,896.97	7,662.89	97.50	36.88	89.62	-1,001.09	1,185.21	3,456.52	3,374.62	81.90	42.205		
11,200.00	7,730.00	7,897.56	7,663.48	97.36	36.88	89.63	-1,001.10	1,185.21	3,430.73	3,348.69	82.04	41.816		
11,300.00	7,730.00	7,898.16	7,664.08	97.24	36.88	89.64	-1,001.10	1,185.21	3,407.68	3,325.44	82.25	41.432		
11,400.00	7,730.00	7,898.76	7,664.68	97.14	36.88	89.65	-1,001.11	1,185.21	3,387.43	3,304.92	82.51	41.056		
11,500.00	7,730.00	7,899.37	7,665.29	97.06	36.89	89.66	-1,001.11	1,185.20	3,370.03	3,287.20	82.82	40.690		
11,600.00	7,730.00	7,899.99	7,665.90	96.98	36.89	89.67	-1,001.12	1,185.20	3,355.51	3,272.32	83.19	40.336		
11,700.00	7,730.00	7,900.60	7,666.52	96.93	36.89	89.68	-1,001.12	1,185.20	3,343.93	3,260.32	83.61	39.995		
11,800.00	7,730.00	7,901.23	7,667.15	96.90	36.89	89.69	-1,001.13	1,185.20	3,335.30	3,251.23	84.07	39.671		
11,900.00	7,730.00	7,901.86	7,667.77	96.88	36.89	89.70	-1,001.14	1,185.19	3,329.66	3,245.07	84.58	39.366		
12,000.00	7,730.00	7,902.49	7,668.41	96.88	36.89	89.71	-1,001.14	1,185.19	3,327.01	3,241.88	85.13	39.082		
12,038.10	7,730.00	7,902.73	7,668.65	96.88	36.89	89.72	-1,001.14	1,185.19	3,326.79	3,241.44	85.35	38.977		
12,100.00	7,730.00	7,903.13	7,669.05	96.90	36.90	89.73	-1,001.15	1,185.19	3,327.37	3,241.66	85.71	38.821		
12,200.00	7,730.00	7,903.77	7,669.69	96.94	36.90	89.74	-1,001.15	1,185.18	3,330.73	3,244.41	86.32	38.585		
12,300.00	7,730.00	7,904.42	7,670.34	97.00	36.90	89.75	-1,001.16	1,185.18	3,337.08	3,250.13	86.96	38.376		
12,400.00	7,730.00	7,905.08	7,671.00	97.08	36.90	89.76	-1,001.17	1,185.18	3,346.42	3,258.80	87.61	38.196		
12,500.00	7,730.00	7,914.00	7,679.92	97.18	36.92	89.91	-1,001.26	1,185.12	3,358.72	3,270.36	88.36	38.012		
12,600.00	7,730.00	7,914.00	7,679.92	97.31	36.92	89.91	-1,001.26	1,185.12	3,373.92	3,284.89	89.03	37.896		
12,700.00	7,730.00	7,914.00	7,679.92	97.46	36.92	89.91	-1,001.26	1,185.12	3,392.01	3,302.30	89.71	37.811		
12,800.00	7,730.00	7,914.00	7,679.92	97.64	36.92	89.91	-1,001.26	1,185.12	3,412.92	3,322.54	90.39	37.759		
12,900.00	7,730.00	7,914.00	7,679.92	97.85	36.92	89.91	-1,001.26	1,185.12	3,436.63	3,345.56	91.07	37.738		
13,000.00	7,730.00	7,914.00	7,679.92	98.09	36.92	89.91	-1,001.26	1,185.12	3,463.06	3,371.32	91.74	37.750		
13,100.00	7,730.00	7,914.00	7,679.92	98.35	36.92	89.91	-1,001.26	1,185.12	3,492.15	3,399.75	92.40	37.793		
13,200.00	7,730.00	7,914.00	7,679.92	98.65	36.92	89.91	-1,001.26	1,185.12	3,523.85	3,430.79	93.06	37.868		
13,300.00	7,730.00	7,914.00	7,679.92	98.98	36.92	89.91	-1,001.26	1,185.12	3,558.07	3,464.37	93.70	37.974		
13,400.00	7,730.00	7,914.00	7,679.92	99.34	36.92	89.91	-1,001.26	1,185.12	3,594.75	3,500.42	94.32	38.111		
13,500.00	7,730.00	7,914.00	7,679.92	99.74	36.92	89.91	-1,001.26	1,185.12	3,633.81	3,538.87	94.94	38.277		
13,600.00	7,730.00	7,914.00	7,679.92	100.17	36.92	89.91	-1,001.26	1,185.12	3,675.18	3,579.65	95.53	38.472		
13,700.00	7,730.00	7,914.18	7,680.10	100.65	36.92	89.92	-1,001.26	1,185.12	3,718.77	3,622.67	96.11	38.695		
13,800.00	7,730.00	7,915.10	7,681.02	101.16	36.92	89.93	-1,001.27	1,185.12	3,764.52	3,667.85	96.67	38.942		
13,900.00	7,730.00	7,916.03	7,681.95	101.71	36.93	89.95	-1,001.28	1,185.11	3,812.35	3,715.13	97.21	39.216		
14,000.00	7,730.00	7,916.98	7,682.89	102.30	36.93	89.96	-1,001.29	1,185.10	3,862.17	3,764.43	97.74	39.516		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,917.94	7,683.86	102.93	36.93	89.98	-1,001.30	1,185.10	3,913.91	3,815.67	98.24	39.840		
14,200.00	7,730.00	7,918.92	7,684.84	103.60	36.93	90.00	-1,001.31	1,185.09	3,967.50	3,868.77	98.73	40.186		
14,300.00	7,730.00	7,919.92	7,685.84	104.32	36.94	90.01	-1,001.32	1,185.08	4,022.86	3,923.66	99.19	40.556		
14,400.00	7,730.00	7,920.93	7,686.85	105.07	36.94	90.03	-1,001.33	1,185.08	4,079.92	3,980.28	99.64	40.947		
14,500.00	7,730.00	7,921.97	7,687.89	105.86	36.94	90.05	-1,001.34	1,185.07	4,138.61	4,038.54	100.07	41.358		
14,600.00	7,730.00	7,923.02	7,688.94	106.70	36.94	90.07	-1,001.35	1,185.06	4,198.86	4,098.38	100.48	41.789		
14,700.00	7,730.00	7,924.10	7,690.01	107.57	36.95	90.09	-1,001.36	1,185.05	4,260.60	4,159.73	100.87	42.238		
14,800.00	7,730.00	7,925.19	7,691.11	108.48	36.95	90.11	-1,001.38	1,185.04	4,323.78	4,222.53	101.25	42.705		
14,900.00	7,730.00	7,926.30	7,692.22	109.43	36.95	90.12	-1,001.39	1,185.03	4,388.33	4,286.72	101.61	43.190		
15,000.00	7,730.00	7,927.44	7,693.35	110.42	36.95	90.14	-1,001.40	1,185.03	4,454.18	4,352.23	101.95	43.690		
15,100.00	7,730.00	7,928.59	7,694.51	111.43	36.96	90.16	-1,001.42	1,185.02	4,521.29	4,419.01	102.28	44.206		
15,200.00	7,730.00	7,929.77	7,695.69	112.49	36.96	90.18	-1,001.43	1,185.01	4,589.60	4,487.01	102.59	44.737		
15,300.00	7,730.00	7,930.98	7,696.89	113.57	36.96	90.20	-1,001.44	1,185.00	4,659.05	4,556.16	102.89	45.282		
15,400.00	7,730.00	7,932.20	7,698.12	114.68	36.97	90.23	-1,001.46	1,184.99	4,729.59	4,626.42	103.18	45.840		
15,500.00	7,730.00	7,933.45	7,699.37	115.82	36.97	90.25	-1,001.47	1,184.98	4,801.18	4,697.73	103.45	46.411		
15,600.00	7,730.00	7,934.73	7,700.65	116.99	36.97	90.27	-1,001.49	1,184.97	4,873.77	4,770.06	103.71	46.994		
15,700.00	7,730.00	7,936.03	7,701.95	118.19	36.97	90.29	-1,001.51	1,184.96	4,947.32	4,843.36	103.96	47.589		
15,800.00	7,730.00	7,937.36	7,703.28	119.41	36.98	90.31	-1,001.52	1,184.94	5,021.78	4,917.58	104.20	48.195		
15,900.00	7,730.00	7,938.72	7,704.63	120.65	36.98	90.34	-1,001.54	1,184.93	5,097.11	4,992.69	104.43	48.811		
16,000.00	7,730.00	7,940.11	7,706.02	121.91	36.98	90.36	-1,001.56	1,184.92	5,173.29	5,068.64	104.64	49.437		
16,100.00	7,730.00	7,941.52	7,707.44	123.20	36.99	90.39	-1,001.57	1,184.91	5,250.25	5,145.40	104.85	50.073		
16,200.00	7,730.00	7,942.97	7,708.88	124.50	36.99	90.41	-1,001.59	1,184.89	5,327.99	5,222.94	105.05	50.718		
16,300.00	7,730.00	7,944.44	7,710.36	125.82	36.99	90.44	-1,001.61	1,184.88	5,406.45	5,301.21	105.24	51.372		
16,400.00	7,730.00	7,945.95	7,711.87	127.16	37.00	90.46	-1,001.63	1,184.87	5,485.62	5,380.20	105.42	52.034		
16,500.00	7,730.00	7,947.50	7,713.41	128.52	37.00	90.49	-1,001.65	1,184.85	5,565.46	5,459.86	105.60	52.704		
16,600.00	7,730.00	7,949.07	7,714.99	129.89	37.01	90.52	-1,001.67	1,184.84	5,645.94	5,540.17	105.77	53.381		
16,700.00	7,730.00	7,950.69	7,716.60	131.27	37.01	90.54	-1,001.70	1,184.82	5,727.03	5,621.10	105.93	54.066		
16,800.00	7,730.00	7,952.34	7,718.25	132.67	37.01	90.57	-1,001.72	1,184.80	5,808.71	5,702.63	106.08	54.757		
16,900.00	7,730.00	7,954.03	7,719.94	134.09	37.02	90.60	-1,001.74	1,184.79	5,890.96	5,784.73	106.23	55.455		
17,000.00	7,730.00	7,955.76	7,721.67	135.51	37.02	90.63	-1,001.77	1,184.77	5,973.75	5,867.38	106.37	56.159		
17,100.00	7,730.00	7,957.53	7,723.44	136.95	37.03	90.66	-1,001.79	1,184.75	6,057.05	5,950.55	106.51	56.869		
17,200.00	7,730.00	7,959.34	7,725.25	138.40	37.03	90.69	-1,001.82	1,184.73	6,140.86	6,034.22	106.64	57.585		
17,300.00	7,730.00	7,961.20	7,727.11	139.85	37.04	90.73	-1,001.85	1,184.71	6,225.14	6,118.38	106.77	58.306		
17,400.00	7,730.00	7,963.10	7,729.01	141.32	37.04	90.76	-1,001.88	1,184.69	6,309.88	6,203.00	106.89	59.033		
17,500.00	7,730.00	7,965.05	7,730.96	142.80	37.04	90.79	-1,001.90	1,184.67	6,395.07	6,288.06	107.01	59.764		
17,600.00	7,730.00	7,967.05	7,732.96	144.28	37.05	90.83	-1,001.94	1,184.65	6,480.67	6,373.55	107.12	60.499		
17,700.00	7,730.00	7,969.10	7,735.01	145.78	37.05	90.86	-1,001.97	1,184.62	6,566.68	6,459.45	107.23	61.240		
17,800.00	7,730.00	7,971.21	7,737.12	147.28	37.06	90.90	-1,002.00	1,184.60	6,653.08	6,545.75	107.34	61.984		
17,900.00	7,730.00	7,973.37	7,739.28	148.79	37.06	90.93	-1,002.03	1,184.57	6,739.86	6,632.42	107.44	62.733		
18,000.00	7,730.00	7,975.59	7,741.50	150.31	37.07	90.97	-1,002.07	1,184.55	6,827.00	6,719.46	107.54	63.485		
18,100.00	7,730.00	7,977.86	7,743.77	151.83	37.08	91.01	-1,002.11	1,184.52	6,914.49	6,806.85	107.63	64.241		
18,200.00	7,730.00	7,980.21	7,746.11	153.37	37.08	91.05	-1,002.15	1,184.49	7,002.31	6,894.58	107.73	65.001		
18,300.00	7,730.00	7,982.61	7,748.52	154.90	37.09	91.09	-1,002.19	1,184.46	7,090.45	6,982.63	107.82	65.764		
18,400.00	7,730.00	7,985.08	7,750.99	156.45	37.09	91.14	-1,002.23	1,184.43	7,178.90	7,071.00	107.91	66.530		
18,500.00	7,730.00	7,987.63	7,753.54	158.00	37.10	91.18	-1,002.27	1,184.39	7,267.65	7,159.66	107.99	67.299		
18,600.00	7,730.00	7,990.25	7,756.15	159.55	37.11	91.22	-1,002.32	1,184.36	7,356.69	7,248.62	108.07	68.071		
18,700.00	7,730.00	7,992.94	7,758.85	161.11	37.11	91.27	-1,002.36	1,184.32	7,446.01	7,337.86	108.16	68.845		
18,800.00	7,730.00	7,995.72	7,761.62	162.68	37.12	91.32	-1,002.41	1,184.28	7,535.60	7,427.36	108.24	69.623		
18,900.00	7,730.00	7,998.58	7,764.48	164.25	37.13	91.37	-1,002.47	1,184.24	7,625.44	7,517.13	108.31	70.402		
19,000.00	7,730.00	8,001.53	7,767.43	165.83	37.13	91.42	-1,002.52	1,184.20	7,715.53	7,607.14	108.39	71.184		
19,100.00	7,730.00	8,004.57	7,770.47	167.41	37.14	91.47	-1,002.58	1,184.16	7,805.87	7,697.40	108.46	71.968		
19,200.00	7,730.00	8,007.70	7,773.61	168.99	37.15	91.53	-1,002.64	1,184.11	7,896.43	7,787.90	108.54	72.754		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 122-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	8,010.94	7,776.84	170.58	37.16	91.58	-1,002.70	1,184.06	7,987.22	7,878.61	108.61	73.542	
19,400.00	7,730.00	8,014.29	7,780.19	172.17	37.16	91.64	-1,002.77	1,184.01	8,078.23	7,969.55	108.68	74.332	
19,430.54	7,730.00	8,015.33	7,781.23	172.66	37.17	91.66	-1,002.79	1,183.99	8,106.06	7,997.36	108.70	74.574	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.68	-2,072.71	2,095.71	2,947.91					
100.00	100.00	63.83	63.83	0.13	0.10	134.68	-2,072.60	2,095.70	2,947.49	2,947.25	0.24	N/A		
200.00	200.00	167.50	167.50	0.49	0.36	134.68	-2,072.02	2,095.60	2,947.02	2,946.17	0.86	3,439.392		
300.00	300.00	266.56	266.56	0.85	0.72	134.67	-2,071.62	2,095.51	2,946.67	2,945.10	1.57	1,876.551		
400.00	400.00	373.81	373.81	1.21	1.10	134.67	-2,071.11	2,095.24	2,946.17	2,943.85	2.31	1,274.407		
500.00	500.00	609.85	609.69	1.57	1.95	134.74	-2,069.16	2,088.33	2,943.89	2,940.37	3.51	838.177		
600.00	599.98	730.17	729.57	1.92	2.39	69.69	-2,069.42	2,078.02	2,937.28	2,932.98	4.30	683.197		
700.00	699.84	817.93	816.84	2.28	2.72	70.06	-2,071.35	2,069.00	2,929.74	2,924.76	4.98	588.703		
800.00	799.45	893.75	892.11	2.64	3.01	70.50	-2,074.33	2,060.38	2,921.57	2,915.95	5.62	519.437		
900.00	898.70	959.82	957.56	3.02	3.27	70.97	-2,078.35	2,052.38	2,913.36	2,907.11	6.25	465.846		
1,000.00	997.47	1,023.26	1,020.25	3.41	3.52	71.49	-2,083.64	2,044.20	2,905.29	2,898.39	6.90	421.103		
1,100.00	1,095.62	1,075.16	1,071.39	3.84	3.73	71.99	-2,089.07	2,037.23	2,897.61	2,890.09	7.53	384.955		
1,200.00	1,193.06	1,139.00	1,134.18	4.29	4.00	72.62	-2,097.15	2,028.98	2,890.89	2,882.65	8.24	350.855		
1,300.00	1,289.64	1,165.53	1,160.22	4.78	4.11	72.96	-2,100.95	2,025.69	2,884.91	2,876.08	8.83	326.693		
1,400.00	1,385.27	1,208.63	1,202.49	5.32	4.30	73.45	-2,107.65	2,020.57	2,880.12	2,870.58	9.53	302.069		
1,500.00	1,479.82	1,248.48	1,241.51	5.90	4.47	73.91	-2,114.44	2,016.11	2,876.51	2,866.24	10.27	280.086		
1,600.00	1,573.17	1,292.88	1,284.87	6.53	4.66	74.42	-2,122.73	2,011.44	2,874.23	2,863.15	11.08	259.426		
1,700.00	1,665.21	1,338.00	1,328.86	7.23	4.86	74.94	-2,131.67	2,006.87	2,873.08	2,861.13	11.95	240.489		
1,743.46	1,704.78	1,358.47	1,348.79	7.55	4.95	75.18	-2,135.92	2,004.85	2,872.98	2,860.62	12.36	232.526		
1,800.00	1,755.84	1,381.13	1,370.80	7.98	5.05	75.45	-2,140.81	2,002.64	2,873.25	2,860.39	12.87	223.283		
1,900.00	1,844.94	1,433.00	1,421.04	8.80	5.29	76.06	-2,152.73	1,997.73	2,875.00	2,861.10	13.89	206.939		
2,000.00	1,932.39	1,455.08	1,442.36	9.68	5.40	76.29	-2,158.12	1,995.72	2,878.25	2,863.42	14.83	194.097		
2,100.00	2,018.11	1,487.63	1,473.71	10.63	5.55	76.63	-2,166.40	1,992.94	2,883.33	2,867.45	15.88	181.564		
2,200.00	2,101.97	1,527.00	1,511.51	11.65	5.74	77.05	-2,176.96	1,989.84	2,890.30	2,873.27	17.03	169.696		
2,300.00	2,183.88	1,549.65	1,533.21	12.74	5.86	77.21	-2,183.29	1,988.21	2,899.13	2,880.98	18.15	159.724		
2,400.00	2,263.74	1,579.44	1,561.67	13.90	6.00	77.44	-2,191.85	1,986.29	2,909.93	2,890.56	19.37	150.237		
2,431.61	2,288.54	1,588.62	1,570.43	14.29	6.05	77.51	-2,194.54	1,985.75	2,913.75	2,893.99	19.76	147.430		
2,500.00	2,341.97	1,622.00	1,602.22	15.13	6.22	78.01	-2,204.55	1,983.96	2,922.96	2,902.25	20.71	141.156		
2,600.00	2,420.08	1,651.61	1,630.39	16.37	6.37	78.46	-2,213.58	1,982.59	2,938.45	2,916.48	21.97	133.746		
2,700.00	2,498.20	1,708.53	1,684.58	17.63	6.66	79.31	-2,230.84	1,980.37	2,956.16	2,932.76	23.40	126.351		
2,800.00	2,576.32	2,800.00	1,769.19	18.89	12.49	80.62	-2,256.99	1,977.28	2,975.25	2,945.71	29.54	100.735		
2,900.00	2,654.43	1,868.05	1,837.02	20.17	7.49	81.66	-2,277.51	1,974.95	2,995.88	2,969.37	26.51	112.995		
3,000.00	2,732.55	1,934.07	1,900.19	21.45	7.84	82.61	-2,296.65	1,973.42	3,018.56	2,990.59	27.97	107.919		
3,100.00	2,810.67	2,025.92	1,988.37	22.74	8.33	83.91	-2,322.30	1,971.95	3,042.36	3,012.78	29.58	102.866		
3,200.00	2,888.78	2,086.83	2,046.91	24.03	8.65	84.76	-2,339.14	1,971.23	3,067.70	3,036.73	30.97	99.047		
3,300.00	2,966.90	2,149.82	2,107.38	25.33	9.00	85.63	-2,356.73	1,970.22	3,094.73	3,062.36	32.37	95.604		
3,400.00	3,045.02	2,203.66	2,158.97	26.63	9.29	86.39	-2,372.06	1,968.66	3,123.44	3,089.75	33.69	92.709		
3,500.00	3,123.13	2,244.95	2,198.46	27.94	9.53	86.96	-2,384.06	1,967.60	3,154.11	3,119.20	34.91	90.354		
3,600.00	3,201.25	2,299.35	2,250.41	29.24	9.83	87.70	-2,400.17	1,966.70	3,186.76	3,150.57	36.19	88.055		
3,700.00	3,279.37	2,399.77	2,346.72	30.55	10.39	89.03	-2,428.60	1,967.05	3,220.14	3,182.37	37.77	85.264		
3,800.00	3,357.49	2,443.78	2,388.90	31.86	10.63	89.60	-2,441.13	1,967.25	3,255.05	3,216.12	38.94	83.597		
3,900.00	3,435.60	2,502.60	2,445.16	33.18	10.96	90.37	-2,458.32	1,967.09	3,291.68	3,251.49	40.19	81.900		
4,000.00	3,513.72	2,581.37	2,520.54	34.49	11.41	91.39	-2,481.18	1,966.71	3,329.40	3,287.84	41.57	80.094		
4,100.00	3,591.84	2,649.27	2,585.58	35.81	11.80	92.24	-2,500.64	1,967.50	3,368.24	3,325.39	42.85	78.604		
4,200.00	3,669.95	2,842.39	2,771.29	37.12	12.88	94.66	-2,553.26	1,964.68	3,407.15	3,362.15	45.00	75.713		
4,300.00	3,748.07	2,889.90	2,817.07	38.44	13.15	95.27	-2,565.64	1,961.77	3,446.00	3,399.89	46.11	74.727		
4,400.00	3,826.19	2,940.00	2,865.31	39.76	13.44	95.90	-2,578.94	1,959.48	3,486.45	3,439.22	47.23	73.824		
4,500.00	3,904.30	2,998.96	2,922.09	41.08	13.78	96.62	-2,594.72	1,957.72	3,528.25	3,479.87	48.38	72.931		
4,600.00	3,982.42	3,069.00	2,989.58	42.40	14.17	97.46	-2,613.42	1,956.49	3,571.11	3,521.52	49.59	72.006		
4,700.00	4,060.54	3,140.75	3,058.70	43.72	14.58	98.32	-2,632.52	1,954.09	3,614.90	3,564.09	50.80	71.156		
4,800.00	4,138.66	3,179.75	3,096.20	45.05	14.81	98.78	-2,643.06	1,952.34	3,659.94	3,608.19	51.75	70.718		
4,900.00	4,216.77	3,224.00	3,138.68	46.37	15.07	99.31	-2,655.26	1,950.07	3,706.38	3,653.65	52.72	70.302		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,308.71	3,219.98	47.69	15.56	100.31	-2,678.63	1,945.52	3,753.80	3,699.83	53.98	69.546		
5,100.00	4,373.01	3,376.07	3,284.71	49.02	15.96	101.09	-2,696.99	1,942.26	3,801.92	3,746.84	55.08	69.020		
5,200.00	4,451.12	3,431.80	3,338.27	50.34	16.28	101.72	-2,712.23	1,940.08	3,850.96	3,794.87	56.09	68.656		
5,300.00	4,529.24	3,475.30	3,380.02	51.67	16.54	102.21	-2,724.34	1,938.52	3,901.16	3,844.18	56.98	68.459		
5,400.00	4,607.36	3,529.32	3,431.78	52.99	16.86	102.80	-2,739.68	1,936.70	3,952.51	3,894.56	57.95	68.209		
5,500.00	4,685.47	3,614.20	3,513.17	54.32	17.36	103.70	-2,763.69	1,934.68	4,004.49	3,945.34	59.15	67.705		
5,600.00	4,763.59	3,680.08	3,576.37	55.64	17.75	104.38	-2,782.27	1,933.78	4,057.05	3,996.87	60.18	67.411		
5,700.00	4,841.71	3,734.47	3,628.53	56.97	18.07	104.93	-2,797.66	1,933.23	4,110.35	4,049.23	61.12	67.253		
5,800.00	4,919.83	3,783.72	3,675.71	58.30	18.36	105.43	-2,811.76	1,932.42	4,164.56	4,102.56	61.99	67.176		
5,900.00	4,997.94	3,823.10	3,713.39	59.62	18.60	105.83	-2,823.18	1,931.42	4,219.74	4,156.96	62.78	67.219		
6,000.00	5,076.06	3,860.02	3,748.64	60.95	18.82	106.20	-2,834.05	1,930.00	4,275.97	4,212.45	63.52	67.320		
6,100.00	5,154.18	5,087.95	4,955.31	62.28	24.35	117.16	-3,030.52	1,901.24	4,315.61	4,243.81	71.81	60.099		
6,200.00	5,232.29	5,181.04	5,048.35	63.61	24.63	117.91	-3,033.51	1,900.17	4,354.04	4,281.14	72.90	59.726		
6,300.00	5,310.41	5,248.17	5,115.44	64.93	24.83	118.44	-3,035.57	1,899.42	4,392.95	4,319.08	73.88	59.464		
6,400.00	5,388.53	6,400.00	5,224.86	66.26	28.26	119.29	-3,038.90	1,898.55	4,432.42	4,353.91	78.51	56.457		
6,500.00	5,466.64	5,476.33	5,343.53	67.59	25.50	120.18	-3,041.28	1,898.48	4,471.42	4,395.25	76.17	58.702		
6,600.00	5,544.76	5,557.46	5,424.64	68.92	25.74	120.78	-3,042.77	1,898.71	4,510.88	4,433.71	77.17	58.452		
6,700.00	5,622.88	5,640.56	5,507.73	70.25	25.97	121.39	-3,044.19	1,898.90	4,550.77	4,472.60	78.17	58.216		
6,800.00	5,701.00	5,728.24	5,595.39	71.58	26.23	122.02	-3,045.53	1,899.02	4,591.06	4,511.89	79.18	57.986		
6,900.00	5,779.11	5,827.91	5,695.06	72.91	26.51	122.73	-3,046.71	1,899.15	4,631.61	4,551.39	80.22	57.739		
7,000.00	5,857.23	5,935.41	5,802.56	74.23	26.81	123.48	-3,047.40	1,899.53	4,672.17	4,590.90	81.27	57.488		
7,100.00	5,935.35	6,043.71	5,910.86	75.56	27.09	124.23	-3,047.28	1,899.56	4,712.73	4,630.42	82.30	57.260		
7,200.00	6,013.46	6,113.30	5,980.45	76.89	27.27	124.71	-3,046.90	1,899.27	4,753.53	4,670.36	83.18	57.150		
7,300.00	6,091.58	6,176.54	6,043.68	78.22	27.43	125.14	-3,046.69	1,898.80	4,795.04	4,711.02	84.02	57.073		
7,400.00	6,169.70	6,239.41	6,106.55	79.55	27.60	125.57	-3,046.67	1,898.27	4,837.24	4,752.40	84.84	57.013		
7,500.00	6,247.81	6,333.39	6,200.53	80.88	27.85	126.19	-3,046.76	1,897.79	4,879.92	4,794.14	85.78	56.887		
7,600.00	6,325.93	6,454.53	6,321.67	82.21	28.16	126.98	-3,046.21	1,897.84	4,922.46	4,835.65	86.81	56.706		
7,700.00	6,404.05	6,526.18	6,393.31	83.54	28.34	127.44	-3,045.52	1,897.52	4,965.18	4,877.55	87.63	56.658		
7,800.00	6,482.17	6,588.62	6,455.74	84.87	28.50	127.85	-3,044.85	1,896.67	5,008.49	4,920.08	88.41	56.648		
7,900.00	6,560.28	6,648.23	6,515.32	86.20	28.66	128.24	-3,044.18	1,895.19	5,052.48	4,963.31	89.17	56.663		
8,000.00	6,638.40	6,705.91	6,572.97	87.53	28.82	128.61	-3,043.61	1,893.36	5,097.17	5,007.27	89.90	56.698		
8,100.00	6,716.52	6,762.88	6,629.91	88.86	28.97	128.98	-3,043.18	1,891.32	5,142.56	5,051.94	90.62	56.750		
8,200.00	6,794.63	6,819.80	6,686.78	90.20	29.13	129.35	-3,042.94	1,889.18	5,188.65	5,097.33	91.32	56.815		
8,300.00	6,872.75	6,889.25	6,756.20	91.53	29.33	129.79	-3,042.95	1,886.86	5,235.33	5,143.25	92.08	56.857		
8,400.00	6,950.87	6,953.33	6,820.26	92.86	29.52	130.18	-3,043.24	1,885.11	5,282.51	5,189.70	92.81	56.919		
8,500.00	7,028.98	7,028.62	6,895.50	94.19	29.74	130.65	-3,043.66	1,882.75	5,330.25	5,236.68	93.57	56.964		
8,600.00	7,107.10	8,600.00	7,045.65	95.52	34.12	131.57	-3,042.23	1,876.67	5,377.42	5,278.28	99.14	54.240		
8,647.91	7,144.53	7,238.35	7,105.04	96.16	30.33	131.93	-3,041.10	1,874.23	5,399.88	5,304.83	95.06	56.807		
8,650.00	7,146.16	7,239.67	7,106.36	96.18	30.34	131.65	-3,041.08	1,874.19	5,400.86	5,305.79	95.07	56.809		
8,700.00	7,185.66	7,271.68	7,138.35	96.84	30.43	124.78	-3,040.61	1,873.17	5,422.48	5,327.05	95.43	56.824		
8,750.00	7,225.78	7,317.52	7,184.18	97.47	30.55	117.75	-3,040.16	1,872.13	5,440.50	5,344.65	95.85	56.758		
8,800.00	7,266.21	7,381.78	7,248.43	98.08	30.73	110.76	-3,039.75	1,871.69	5,454.65	5,358.27	96.38	56.596		
8,850.00	7,306.63	7,410.29	7,276.94	98.64	30.81	103.71	-3,039.64	1,871.72	5,464.92	5,368.16	96.76	56.479		
8,900.00	7,346.75	7,437.14	7,303.79	99.17	30.88	97.03	-3,039.56	1,871.66	5,471.42	5,374.28	97.14	56.328		
8,950.00	7,386.25	7,463.44	7,330.09	99.64	30.96	90.93	-3,039.51	1,871.49	5,474.10	5,376.60	97.50	56.144		
9,000.00	7,424.84	7,491.52	7,358.17	100.06	31.04	85.55	-3,039.47	1,871.21	5,472.97	5,375.11	97.86	55.924		
9,050.00	7,462.22	7,522.47	7,389.11	100.42	31.13	80.97	-3,039.46	1,870.88	5,468.02	5,369.79	98.23	55.667		
9,100.00	7,498.11	9,100.00	7,483.90	100.74	35.58	77.65	-3,039.24	1,870.32	5,459.16	5,355.51	103.64	52.672		
9,150.00	7,532.24	7,692.34	7,558.97	100.99	31.61	74.99	-3,038.66	1,870.68	5,446.19	5,346.81	99.38	54.800		
9,200.00	7,564.34	7,707.58	7,574.21	101.19	31.65	72.62	-3,038.56	1,870.87	5,429.52	5,329.89	99.63	54.497		
9,250.00	7,594.17	7,721.82	7,588.45	101.34	31.69	70.93	-3,038.51	1,871.04	5,409.46	5,309.61	99.85	54.177		
9,300.00	7,621.50	7,734.95	7,601.58	101.45	31.73	69.92	-3,038.51	1,871.19	5,386.15	5,286.11	100.04	53.840		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,761.00	7,627.63	101.50	31.80	69.70	-3,038.60	1,871.47	5,359.77	5,259.51	100.27	53.455		
9,400.00	7,667.87	7,761.00	7,627.63	101.51	31.80	69.89	-3,038.60	1,871.47	5,330.41	5,230.05	100.35	53.116		
9,450.00	7,686.55	7,761.00	7,627.63	101.48	31.80	70.77	-3,038.60	1,871.47	5,298.35	5,197.93	100.42	52.763		
9,500.00	7,702.04	7,761.00	7,627.63	101.42	31.80	72.39	-3,038.60	1,871.47	5,263.80	5,163.34	100.46	52.396		
9,550.00	7,714.20	7,781.68	7,648.31	101.33	31.87	75.19	-3,038.78	1,871.69	5,226.89	5,126.30	100.60	51.960		
9,600.00	7,722.96	7,786.51	7,653.13	101.20	31.88	78.75	-3,038.83	1,871.74	5,187.99	5,087.35	100.64	51.552		
9,650.00	7,728.24	7,789.57	7,656.19	101.06	31.89	83.43	-3,038.87	1,871.77	5,147.31	5,046.65	100.66	51.136		
9,699.97	7,730.00	7,790.82	7,657.44	100.90	31.89	89.40	-3,038.88	1,871.78	5,105.15	5,004.48	100.67	50.713		
9,800.00	7,730.00	7,791.48	7,658.11	100.56	31.90	89.41	-3,038.89	1,871.79	5,019.72	4,919.05	100.67	49.864		
9,900.00	7,730.00	7,792.16	7,658.78	100.24	31.90	89.43	-3,038.90	1,871.80	4,934.87	4,834.19	100.67	49.019		
10,000.00	7,730.00	7,792.85	7,659.48	99.93	31.90	89.44	-3,038.91	1,871.80	4,850.59	4,749.91	100.68	48.179		
10,100.00	7,730.00	7,793.56	7,660.19	99.64	31.90	89.46	-3,038.92	1,871.81	4,766.92	4,666.23	100.69	47.343		
10,200.00	7,730.00	7,794.29	7,660.91	99.36	31.91	89.48	-3,038.93	1,871.82	4,683.89	4,583.18	100.70	46.512		
10,300.00	7,730.00	7,795.03	7,661.65	99.09	31.91	89.49	-3,038.94	1,871.83	4,601.53	4,500.81	100.72	45.687		
10,400.00	7,730.00	7,795.79	7,662.41	98.84	31.91	89.51	-3,038.95	1,871.83	4,519.89	4,419.14	100.74	44.866		
10,500.00	7,730.00	7,796.57	7,663.19	98.61	31.91	89.53	-3,038.96	1,871.84	4,438.99	4,338.22	100.77	44.052		
10,600.00	7,730.00	7,797.36	7,663.99	98.39	31.91	89.54	-3,038.97	1,871.85	4,358.89	4,258.09	100.80	43.243		
10,700.00	7,730.00	7,798.18	7,664.80	98.18	31.92	89.56	-3,038.98	1,871.86	4,279.63	4,178.79	100.84	42.441		
10,800.00	7,730.00	7,799.01	7,665.64	97.99	31.92	89.58	-3,038.99	1,871.87	4,201.25	4,100.37	100.88	41.646		
10,900.00	7,730.00	7,799.87	7,666.50	97.81	31.92	89.60	-3,039.00	1,871.88	4,123.81	4,022.88	100.93	40.858		
11,000.00	7,730.00	7,800.75	7,667.38	97.64	31.93	89.62	-3,039.02	1,871.89	4,047.35	3,946.36	100.99	40.078		
11,100.00	7,730.00	7,801.65	7,668.28	97.50	31.93	89.64	-3,039.03	1,871.90	3,971.94	3,870.89	101.05	39.306		
11,200.00	7,730.00	7,802.58	7,669.20	97.36	31.93	89.66	-3,039.04	1,871.91	3,897.64	3,796.51	101.12	38.543		
11,300.00	7,730.00	7,803.53	7,670.15	97.24	31.93	89.68	-3,039.06	1,871.91	3,824.51	3,723.30	101.21	37.789		
11,400.00	7,730.00	7,804.50	7,671.13	97.14	31.94	89.70	-3,039.07	1,871.92	3,752.61	3,651.32	101.30	37.045		
11,500.00	7,730.00	7,805.50	7,672.13	97.06	31.94	89.72	-3,039.09	1,871.94	3,682.03	3,580.63	101.40	36.312		
11,600.00	7,730.00	7,806.53	7,673.16	96.98	31.94	89.74	-3,039.11	1,871.95	3,612.84	3,511.33	101.51	35.590		
11,700.00	7,730.00	7,807.59	7,674.21	96.93	31.95	89.77	-3,039.12	1,871.96	3,545.12	3,443.48	101.64	34.880		
11,800.00	7,730.00	7,808.68	7,675.30	96.90	31.95	89.79	-3,039.14	1,871.97	3,478.96	3,377.18	101.78	34.182		
11,900.00	7,730.00	7,809.79	7,676.42	96.88	31.95	89.81	-3,039.16	1,871.98	3,414.44	3,312.51	101.93	33.499		
12,000.00	7,730.00	7,810.95	7,677.57	96.88	31.96	89.84	-3,039.18	1,871.99	3,351.66	3,249.57	102.09	32.830		
12,100.00	7,730.00	7,812.13	7,678.75	96.90	31.96	89.86	-3,039.20	1,872.00	3,290.72	3,188.45	102.27	32.176		
12,200.00	7,730.00	7,813.35	7,679.97	96.94	31.96	89.89	-3,039.22	1,872.02	3,231.73	3,129.27	102.47	31.539		
12,300.00	7,730.00	7,814.61	7,681.23	97.00	31.97	89.92	-3,039.24	1,872.03	3,174.80	3,072.12	102.68	30.919		
12,400.00	7,730.00	7,815.90	7,682.52	97.08	31.97	89.95	-3,039.26	1,872.04	3,120.03	3,017.12	102.91	30.319		
12,500.00	7,730.00	7,817.24	7,683.86	97.18	31.98	89.98	-3,039.29	1,872.06	3,067.54	2,964.38	103.15	29.738		
12,600.00	7,730.00	7,818.62	7,685.24	97.31	31.98	90.01	-3,039.31	1,872.07	3,017.45	2,914.03	103.42	29.178		
12,700.00	7,730.00	7,820.04	7,686.66	97.46	31.98	90.04	-3,039.34	1,872.09	2,969.88	2,866.19	103.70	28.641		
12,800.00	7,730.00	7,821.51	7,688.13	97.64	31.99	90.07	-3,039.37	1,872.10	2,924.96	2,820.97	103.99	28.127		
12,900.00	7,730.00	7,823.03	7,689.65	97.85	31.99	90.10	-3,039.40	1,872.12	2,882.81	2,778.51	104.30	27.639		
13,000.00	7,730.00	7,824.60	7,691.22	98.09	32.00	90.14	-3,039.43	1,872.13	2,843.56	2,738.92	104.63	27.177		
13,100.00	7,730.00	7,826.23	7,692.85	98.35	32.00	90.17	-3,039.46	1,872.15	2,807.31	2,702.34	104.97	26.743		
13,200.00	7,730.00	7,827.91	7,694.53	98.65	32.01	90.21	-3,039.49	1,872.17	2,774.20	2,668.87	105.33	26.338		
13,300.00	7,730.00	7,829.65	7,696.27	98.98	32.01	90.25	-3,039.53	1,872.18	2,744.33	2,638.63	105.70	25.964		
13,400.00	7,730.00	7,831.46	7,698.08	99.34	32.02	90.28	-3,039.57	1,872.20	2,717.82	2,611.74	106.07	25.622		
13,500.00	7,730.00	7,833.33	7,699.95	99.74	32.03	90.33	-3,039.61	1,872.22	2,694.75	2,588.30	106.45	25.314		
13,600.00	7,730.00	7,835.28	7,701.89	100.17	32.03	90.37	-3,039.65	1,872.24	2,675.23	2,568.38	106.84	25.039		
13,700.00	7,730.00	7,837.30	7,703.91	100.65	32.04	90.41	-3,039.69	1,872.26	2,659.32	2,552.09	107.23	24.801		
13,800.00	7,730.00	7,839.40	7,706.01	101.16	32.04	90.46	-3,039.74	1,872.28	2,647.09	2,539.48	107.61	24.598		
13,900.00	7,730.00	7,841.58	7,708.19	101.71	32.05	90.50	-3,039.79	1,872.31	2,638.60	2,530.61	107.99	24.433		
14,000.00	7,730.00	7,843.85	7,710.47	102.30	32.06	90.55	-3,039.84	1,872.33	2,633.88	2,525.52	108.36	24.306		
14,074.50	7,730.00	7,845.61	7,712.22	102.76	32.06	90.59	-3,039.88	1,872.35	2,632.83	2,524.20	108.63	24.236	CC, ES	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,846.22	7,712.83	102.93	32.07	90.61	-3,039.90	1,872.35	2,632.95	2,524.23	108.72	24.217		
14,200.00	7,730.00	7,848.69	7,715.30	103.60	32.07	90.66	-3,039.96	1,872.38	2,635.82	2,526.75	109.07	24.167		
14,300.00	7,730.00	7,851.26	7,717.87	104.32	32.08	90.72	-3,040.02	1,872.41	2,642.46	2,533.07	109.39	24.155 SF		
14,400.00	7,730.00	7,853.95	7,720.56	105.07	32.09	90.77	-3,040.09	1,872.43	2,652.86	2,543.16	109.70	24.182		
14,500.00	7,730.00	7,856.77	7,723.37	105.86	32.10	90.84	-3,040.17	1,872.46	2,666.97	2,556.98	109.99	24.247		
14,600.00	7,730.00	7,859.71	7,726.32	106.70	32.11	90.90	-3,040.24	1,872.49	2,684.73	2,574.47	110.26	24.350		
14,700.00	7,730.00	7,862.79	7,729.40	107.57	32.12	90.97	-3,040.33	1,872.52	2,706.07	2,595.57	110.50	24.490		
14,800.00	7,730.00	7,866.03	7,732.64	108.48	32.13	91.04	-3,040.42	1,872.56	2,730.90	2,620.18	110.72	24.665		
14,900.00	7,730.00	7,869.43	7,736.03	109.43	32.14	91.11	-3,040.52	1,872.59	2,759.13	2,648.21	110.91	24.877		
15,000.00	7,730.00	7,873.00	7,739.60	110.42	32.15	91.19	-3,040.62	1,872.63	2,790.65	2,679.57	111.08	25.122		
15,100.00	7,730.00	7,871.77	7,738.38	111.43	32.15	91.16	-3,040.56	1,872.61	2,825.38	2,714.20	111.18	25.412		
15,200.00	7,730.00	7,874.35	7,740.96	112.49	32.15	91.22	-3,040.63	1,872.64	2,863.17	2,751.87	111.30	25.726		
15,300.00	7,730.00	7,876.95	7,743.55	113.57	32.16	91.27	-3,040.70	1,872.66	2,903.91	2,792.52	111.39	26.070		
15,400.00	7,730.00	7,879.56	7,746.16	114.68	32.17	91.33	-3,040.77	1,872.69	2,947.47	2,836.01	111.46	26.444		
15,500.00	7,730.00	7,882.18	7,748.78	115.82	32.18	91.39	-3,040.84	1,872.72	2,993.75	2,882.24	111.51	26.847		
15,600.00	7,730.00	7,884.82	7,751.41	116.99	32.19	91.45	-3,040.91	1,872.74	3,042.60	2,931.06	111.54	27.277		
15,700.00	7,730.00	7,887.46	7,754.06	118.19	32.20	91.50	-3,040.98	1,872.77	3,093.91	2,982.35	111.56	27.732		
15,800.00	7,730.00	7,890.13	7,756.72	119.41	32.21	91.56	-3,041.05	1,872.79	3,147.57	3,036.00	111.57	28.213		
15,900.00	7,730.00	7,892.81	7,759.40	120.65	32.21	91.62	-3,041.12	1,872.82	3,203.44	3,091.89	111.56	28.716		
16,000.00	7,730.00	7,895.50	7,762.09	121.91	32.22	91.68	-3,041.19	1,872.84	3,261.42	3,149.89	111.54	29.241		
16,100.00	7,730.00	7,898.20	7,764.79	123.20	32.23	91.74	-3,041.27	1,872.87	3,321.40	3,209.90	111.50	29.787		
16,200.00	7,730.00	7,900.92	7,767.51	124.50	32.24	91.80	-3,041.34	1,872.89	3,383.27	3,271.81	111.47	30.353		
16,300.00	7,730.00	7,903.65	7,770.25	125.82	32.25	91.85	-3,041.41	1,872.92	3,446.93	3,335.51	111.42	30.937		
16,400.00	7,730.00	7,906.40	7,772.99	127.16	32.26	91.91	-3,041.49	1,872.94	3,512.28	3,400.92	111.36	31.539		
16,500.00	7,730.00	7,909.17	7,775.75	128.52	32.27	91.97	-3,041.57	1,872.97	3,579.23	3,467.93	111.31	32.157		
16,600.00	7,730.00	7,911.94	7,778.53	129.89	32.28	92.04	-3,041.64	1,873.00	3,647.69	3,536.45	111.24	32.790		
16,700.00	7,730.00	7,914.74	7,781.32	131.27	32.28	92.10	-3,041.72	1,873.02	3,717.58	3,606.40	111.18	33.439		
16,800.00	7,730.00	7,917.54	7,784.13	132.67	32.29	92.16	-3,041.80	1,873.05	3,788.82	3,677.71	111.11	34.100		
16,900.00	7,730.00	7,920.36	7,786.95	134.09	32.30	92.22	-3,041.87	1,873.07	3,861.33	3,750.29	111.04	34.775		
17,000.00	7,730.00	7,923.20	7,789.78	135.51	32.31	92.28	-3,041.95	1,873.10	3,935.04	3,824.07	110.96	35.462		
17,100.00	7,730.00	7,926.05	7,792.64	136.95	32.32	92.34	-3,042.03	1,873.12	4,009.89	3,899.00	110.89	36.160		
17,200.00	7,730.00	7,928.92	7,795.50	138.40	32.33	92.40	-3,042.11	1,873.15	4,085.81	3,974.99	110.82	36.870		
17,300.00	7,730.00	7,931.81	7,798.39	139.85	32.34	92.47	-3,042.19	1,873.17	4,162.75	4,052.01	110.75	37.589		
17,400.00	7,730.00	7,934.71	7,801.28	141.32	32.35	92.53	-3,042.27	1,873.20	4,240.65	4,129.98	110.67	38.317		
17,500.00	7,730.00	7,937.62	7,804.20	142.80	32.36	92.59	-3,042.36	1,873.22	4,319.46	4,208.86	110.60	39.055		
17,600.00	7,730.00	7,940.55	7,807.13	144.28	32.37	92.66	-3,042.44	1,873.25	4,399.13	4,288.60	110.53	39.800		
17,700.00	7,730.00	7,943.50	7,810.07	145.78	32.38	92.72	-3,042.52	1,873.27	4,479.61	4,369.15	110.46	40.554		
17,800.00	7,730.00	7,946.46	7,813.03	147.28	32.39	92.79	-3,042.61	1,873.30	4,560.87	4,450.47	110.39	41.315		
17,900.00	7,730.00	7,949.44	7,816.01	148.79	32.40	92.85	-3,042.69	1,873.32	4,642.85	4,532.52	110.33	42.083		
18,000.00	7,730.00	7,952.44	7,819.01	150.31	32.41	92.92	-3,042.77	1,873.35	4,725.52	4,615.26	110.26	42.858		
18,100.00	7,730.00	7,955.45	7,822.02	151.83	32.42	92.98	-3,042.86	1,873.37	4,808.86	4,698.66	110.20	43.638		
18,200.00	7,730.00	7,958.48	7,825.05	153.37	32.43	93.05	-3,042.95	1,873.40	4,892.81	4,782.67	110.14	44.425		
18,300.00	7,730.00	7,961.53	7,828.09	154.90	32.44	93.11	-3,043.04	1,873.42	4,977.36	4,867.28	110.08	45.216		
18,400.00	7,730.00	7,963.62	7,830.18	156.45	32.44	93.16	-3,043.10	1,873.44	5,062.46	4,952.45	110.02	46.015		
18,500.00	7,730.00	7,966.49	7,833.06	158.00	32.45	93.22	-3,043.18	1,873.46	5,148.11	5,038.14	109.96	46.817		
18,600.00	7,730.00	7,969.39	7,835.95	159.55	32.46	93.28	-3,043.26	1,873.48	5,234.26	5,124.35	109.91	47.624		
18,700.00	7,730.00	7,972.30	7,838.86	161.11	32.47	93.35	-3,043.35	1,873.50	5,320.89	5,211.03	109.86	48.434		
18,800.00	7,730.00	7,975.23	7,841.79	162.68	32.48	93.41	-3,043.43	1,873.52	5,407.98	5,298.17	109.81	49.249		
18,900.00	7,730.00	7,978.17	7,844.73	164.25	32.49	93.47	-3,043.52	1,873.54	5,495.51	5,385.75	109.76	50.067		
19,000.00	7,730.00	7,981.14	7,847.69	165.83	32.50	93.54	-3,043.61	1,873.57	5,583.46	5,473.74	109.72	50.889		
19,100.00	7,730.00	7,984.12	7,850.67	167.41	32.51	93.60	-3,043.69	1,873.59	5,671.80	5,562.13	109.68	51.715		
19,200.00	7,730.00	7,987.11	7,853.67	168.99	32.52	93.67	-3,043.78	1,873.60	5,760.53	5,650.89	109.63	52.543		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,990.13	7,856.68	170.58	32.53	93.73	-3,043.87	1,873.62	5,849.61	5,740.02	109.60	53.374	
19,400.00	7,730.00	7,993.17	7,859.72	172.17	32.54	93.80	-3,043.96	1,873.64	5,939.05	5,829.49	109.56	54.208	
19,430.54	7,730.00	7,994.10	7,860.65	172.66	32.54	93.82	-3,043.99	1,873.65	5,966.42	5,856.87	109.55	54.463	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	109.32	-1,475.01	4,207.01	4,458.35					
100.00	100.00	34.15	34.15	0.13	0.05	109.32	-1,475.00	4,207.09	4,458.20	4,458.01	0.19	N/A		
200.00	200.00	99.83	99.82	0.49	0.16	109.32	-1,474.93	4,207.66	4,458.98	4,458.33	0.65	6,857.272		
300.00	300.00	245.78	245.77	0.85	0.63	109.31	-1,474.45	4,209.09	4,459.87	4,458.39	1.48	3,003.384		
400.00	400.00	519.21	518.82	1.21	1.59	109.44	-1,483.10	4,200.99	4,458.22	4,455.42	2.80	1,589.604		
500.00	500.00	617.86	616.74	1.57	1.97	109.59	-1,492.32	4,193.54	4,454.20	4,450.66	3.54	1,259.360		
600.00	599.98	684.87	682.92	1.92	2.24	44.44	-1,501.32	4,188.07	4,449.71	4,445.55	4.16	1,069.043		
700.00	699.84	788.74	784.71	2.28	2.70	44.85	-1,519.45	4,178.23	4,442.95	4,437.98	4.97	893.185		
800.00	799.45	870.60	864.33	2.64	3.09	45.29	-1,536.37	4,169.61	4,433.99	4,428.26	5.72	774.832		
900.00	898.70	937.78	929.46	3.02	3.43	45.73	-1,551.26	4,162.53	4,423.25	4,416.83	6.43	688.433		
1,000.00	997.47	1,063.08	1,050.77	3.41	4.08	46.50	-1,579.64	4,149.21	4,410.49	4,403.04	7.45	591.855		
1,100.00	1,095.62	1,203.18	1,186.53	3.84	4.82	47.43	-1,610.10	4,132.78	4,394.24	4,385.66	8.58	511.955		
1,200.00	1,193.06	1,261.25	1,242.87	4.29	5.13	48.01	-1,622.47	4,126.09	4,376.16	4,366.85	9.30	470.448		
1,300.00	1,289.64	1,322.86	1,302.70	4.78	5.45	48.65	-1,635.63	4,119.55	4,356.87	4,346.81	10.07	432.864		
1,400.00	1,385.27	1,422.44	1,399.10	5.32	6.00	49.59	-1,657.97	4,108.44	4,335.71	4,324.64	11.07	391.646		
1,500.00	1,479.82	1,483.95	1,458.45	5.90	6.34	50.36	-1,672.51	4,101.42	4,313.06	4,301.15	11.91	362.070		
1,600.00	1,573.17	1,566.24	1,537.74	6.53	6.80	51.34	-1,692.52	4,092.10	4,289.10	4,276.18	12.92	332.071		
1,700.00	1,665.21	1,632.00	1,601.04	7.23	7.18	52.26	-1,708.63	4,084.61	4,263.69	4,249.82	13.87	307.341		
1,800.00	1,755.84	1,690.53	1,657.41	7.98	7.51	53.16	-1,723.05	4,078.25	4,237.33	4,222.49	14.84	285.583		
1,900.00	1,844.94	1,798.26	1,761.33	8.80	8.12	54.54	-1,748.98	4,066.66	4,209.60	4,193.46	16.14	260.881		
2,000.00	1,932.39	1,886.86	1,846.92	9.68	8.62	55.83	-1,769.72	4,056.97	4,180.40	4,163.02	17.38	240.547		
2,100.00	2,018.11	1,999.39	1,955.85	10.63	9.25	57.42	-1,794.98	4,044.26	4,149.61	4,130.80	18.82	220.546		
2,200.00	2,101.97	2,200.00	2,081.07	11.65	10.35	59.26	-1,822.70	4,028.54	4,117.05	4,096.25	20.80	197.930		
2,300.00	2,183.88	2,238.86	2,188.00	12.74	10.56	61.03	-1,845.25	4,014.01	4,082.80	4,060.84	21.96	185.900		
2,400.00	2,263.74	2,302.34	2,249.64	13.90	10.91	62.36	-1,857.90	4,005.65	4,047.98	4,024.64	23.34	173.456		
2,431.61	2,288.54	2,321.78	2,268.51	14.29	11.01	62.79	-1,861.79	4,003.09	4,036.90	4,013.12	23.78	169.727		
2,500.00	2,341.97	2,358.49	2,304.15	15.13	11.21	63.20	-1,869.16	3,998.26	4,013.19	3,988.45	24.74	162.218		
2,600.00	2,420.08	2,402.30	2,346.70	16.37	11.45	63.69	-1,877.96	3,992.68	3,979.76	3,953.65	26.11	152.417		
2,700.00	2,498.20	2,447.63	2,390.77	17.63	11.69	64.21	-1,887.06	3,987.18	3,947.88	3,920.36	27.52	143.445		
2,800.00	2,576.32	2,499.84	2,441.52	18.89	11.98	64.80	-1,897.67	3,980.99	3,917.48	3,888.48	29.00	135.094		
2,900.00	2,654.43	2,582.10	2,521.41	20.17	12.42	65.74	-1,914.62	3,971.18	3,888.48	3,857.81	30.67	126.780		
3,000.00	2,732.55	2,662.31	2,599.32	21.45	12.86	66.67	-1,930.78	3,961.02	3,860.18	3,827.82	32.36	119.299		
3,100.00	2,810.67	2,711.26	2,646.90	22.74	13.12	67.23	-1,940.55	3,955.01	3,833.38	3,799.49	33.89	113.125		
3,200.00	2,888.78	2,761.32	2,695.62	24.03	13.39	67.81	-1,950.48	3,949.16	3,808.19	3,772.75	35.43	107.473		
3,300.00	2,966.90	2,812.48	2,745.48	25.33	13.66	68.41	-1,960.46	3,943.56	3,784.60	3,747.60	37.00	102.285		
3,400.00	3,045.02	2,882.65	2,813.94	26.63	14.02	69.22	-1,973.97	3,936.17	3,762.50	3,723.82	38.68	97.264		
3,500.00	3,123.13	2,955.54	2,885.08	27.94	14.40	70.07	-1,987.85	3,928.44	3,741.68	3,701.28	40.39	92.631		
3,600.00	3,201.25	3,028.48	2,956.29	29.24	14.78	70.92	-2,001.59	3,920.63	3,722.14	3,680.03	42.11	88.381		
3,700.00	3,279.37	3,074.01	3,000.64	30.55	15.02	71.46	-2,010.56	3,915.57	3,704.23	3,660.53	43.69	84.776		
3,800.00	3,357.49	3,124.19	3,049.42	31.86	15.29	72.06	-2,020.81	3,909.83	3,688.03	3,642.73	45.31	81.401		
3,900.00	3,435.60	3,173.29	3,097.08	33.18	15.56	72.65	-2,031.15	3,904.16	3,673.63	3,626.71	46.92	78.296		
4,000.00	3,513.72	3,225.84	3,148.06	34.49	15.85	73.28	-2,042.43	3,898.16	3,661.03	3,612.48	48.55	75.405		
4,100.00	3,591.84	3,283.05	3,203.68	35.81	16.16	73.97	-2,054.40	3,892.19	3,650.16	3,599.95	50.21	72.702		
4,200.00	3,669.95	3,336.50	3,255.75	37.12	16.44	74.60	-2,065.34	3,887.11	3,641.00	3,589.17	51.83	70.253		
4,300.00	3,748.07	3,395.02	3,312.81	38.44	16.75	75.30	-2,077.28	3,881.90	3,633.60	3,580.13	53.47	67.953		
4,400.00	3,826.19	3,471.13	3,386.94	39.76	17.15	76.21	-2,092.97	3,874.78	3,627.69	3,572.46	55.23	65.688		
4,500.00	3,904.30	3,545.55	3,459.30	41.08	17.55	77.10	-2,108.55	3,867.14	3,623.18	3,566.21	56.96	63.607		
4,600.00	3,982.42	3,651.86	3,562.70	42.40	18.11	78.39	-2,130.41	3,855.62	3,619.90	3,561.01	58.89	61.470		
4,700.00	4,060.54	3,774.62	3,682.63	43.72	18.76	79.86	-2,153.24	3,842.79	3,617.24	3,556.34	60.90	59.397		
4,800.00	4,138.66	3,855.22	3,761.72	45.05	19.13	80.81	-2,166.80	3,835.26	3,615.56	3,552.96	62.60	57.759		
4,900.00	4,216.77	3,950.70	3,855.78	46.37	19.59	81.91	-2,181.41	3,827.64	3,614.97	3,550.60	64.37	56.160		
5,000.00	4,294.89	4,199.19	4,102.35	47.69	20.58	84.67	-2,207.75	3,812.83	3,613.34	3,546.59	66.76	54.128		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,356.79	4,259.64	49.02	21.13	86.33	-2,215.91	3,807.62	3,610.82	3,542.21	68.61	52.625		
5,200.00	4,451.12	4,456.96	4,359.75	50.34	21.40	87.36	-2,218.91	3,805.51	3,608.50	3,538.31	70.19	51.410		
5,300.00	4,529.24	4,570.95	4,473.71	51.67	21.73	88.52	-2,220.58	3,804.02	3,606.53	3,534.72	71.81	50.224		
5,400.00	4,607.36	4,677.80	4,580.55	52.99	22.02	89.59	-2,220.74	3,803.17	3,604.94	3,531.56	73.38	49.128		
5,500.00	4,685.47	4,780.43	4,683.18	54.32	22.28	90.61	-2,220.13	3,802.21	3,603.89	3,528.98	74.91	48.111		
5,582.78	4,750.14	4,851.08	4,753.82	55.41	22.46	91.32	-2,219.35	3,801.57	3,603.55	3,527.42	76.13	47.335		
5,600.00	4,763.59	4,865.18	4,767.92	55.64	22.49	91.46	-2,219.19	3,801.43	3,603.56	3,527.18	76.38	47.180		
5,700.00	4,841.71	4,949.51	4,852.23	56.97	22.70	92.30	-2,218.20	3,800.46	3,604.22	3,526.38	77.84	46.303		
5,800.00	4,919.83	5,021.43	4,924.14	58.30	22.89	93.02	-2,217.36	3,799.44	3,605.91	3,526.64	79.27	45.491		
5,900.00	4,997.94	5,084.76	4,987.47	59.62	23.06	93.66	-2,216.85	3,798.57	3,608.96	3,528.30	80.66	44.743		
6,000.00	5,076.06	5,148.00	5,050.70	60.95	23.23	94.29	-2,216.59	3,797.75	3,613.43	3,531.39	82.04	44.047		
6,100.00	5,154.18	5,211.16	5,113.85	62.28	23.41	94.92	-2,216.57	3,796.98	3,619.30	3,535.91	83.39	43.402		
6,200.00	5,232.29	5,275.43	5,178.13	63.61	23.58	95.57	-2,216.81	3,796.24	3,626.57	3,541.84	84.73	42.801		
6,300.00	5,310.41	5,347.78	5,250.46	64.93	23.79	96.29	-2,217.23	3,795.47	3,635.11	3,549.03	86.08	42.229		
6,400.00	5,388.53	5,424.85	5,327.53	66.26	24.02	97.06	-2,217.74	3,794.68	3,644.80	3,557.37	87.43	41.690		
6,500.00	5,466.64	5,515.12	5,417.80	67.59	24.28	97.95	-2,218.23	3,793.71	3,655.47	3,566.68	88.79	41.169		
6,600.00	5,544.76	5,603.79	5,506.46	68.92	24.54	98.83	-2,218.35	3,792.65	3,666.86	3,576.73	90.13	40.684		
6,700.00	5,622.88	5,687.71	5,590.37	70.25	24.78	99.65	-2,218.29	3,791.63	3,679.16	3,587.73	91.43	40.239		
6,800.00	5,701.00	5,762.15	5,664.81	71.58	24.99	100.38	-2,218.14	3,790.73	3,692.40	3,599.71	92.69	39.837		
6,900.00	5,779.11	5,822.00	5,724.65	72.91	25.17	100.96	-2,218.24	3,789.98	3,706.95	3,613.07	93.88	39.487		
7,000.00	5,857.23	5,952.75	5,855.39	74.23	25.54	102.23	-2,217.83	3,788.15	3,722.12	3,626.86	95.26	39.074		
7,100.00	5,935.35	6,035.47	5,938.09	75.56	25.77	103.03	-2,216.91	3,786.92	3,737.69	3,641.22	96.47	38.746		
7,200.00	6,013.46	6,103.52	6,006.13	76.89	25.96	103.68	-2,216.21	3,785.96	3,754.33	3,656.71	97.62	38.460		
7,300.00	6,091.58	6,182.67	6,085.27	78.22	26.19	104.43	-2,215.49	3,784.95	3,772.06	3,673.28	98.77	38.189		
7,400.00	6,169.70	6,260.95	6,163.54	79.55	26.41	105.17	-2,214.72	3,783.93	3,790.69	3,690.78	99.91	37.941		
7,500.00	6,247.81	6,335.05	6,237.63	80.88	26.62	105.87	-2,214.05	3,782.73	3,810.31	3,709.30	101.01	37.722		
7,600.00	6,325.93	6,406.36	6,308.93	82.21	26.83	106.54	-2,213.51	3,781.47	3,830.99	3,728.90	102.08	37.528		
7,700.00	6,404.05	6,481.13	6,383.68	83.54	27.05	107.24	-2,213.03	3,780.06	3,852.68	3,749.53	103.15	37.351		
7,800.00	6,482.17	6,547.15	6,449.69	84.87	27.25	107.86	-2,212.70	3,778.82	3,875.42	3,771.26	104.16	37.206		
7,900.00	6,560.28	6,615.64	6,518.17	86.20	27.45	108.48	-2,212.58	3,777.82	3,899.29	3,794.13	105.16	37.079		
8,000.00	6,638.40	6,692.85	6,595.37	87.53	27.68	109.18	-2,212.49	3,776.93	3,924.11	3,817.94	106.17	36.959		
8,100.00	6,716.52	6,755.75	6,658.27	88.86	27.88	109.75	-2,212.55	3,776.29	3,949.95	3,842.83	107.12	36.875		
8,200.00	6,794.63	6,822.58	6,725.10	90.20	28.09	110.35	-2,212.82	3,775.61	3,976.86	3,868.80	108.05	36.805		
8,300.00	6,872.75	6,890.72	6,793.23	91.53	28.30	110.95	-2,213.25	3,774.81	4,004.77	3,895.80	108.97	36.750		
8,400.00	6,950.87	6,959.19	6,861.69	92.86	28.52	111.56	-2,213.84	3,773.90	4,033.66	3,923.79	109.87	36.712		
8,500.00	7,028.98	7,025.72	6,928.21	94.19	28.73	112.14	-2,214.55	3,772.83	4,063.53	3,952.78	110.75	36.692		
8,600.00	7,107.10	7,097.13	6,999.60	95.52	28.97	112.77	-2,215.47	3,771.36	4,094.36	3,982.74	111.62	36.681		
8,647.91	7,144.53	7,134.43	7,036.88	96.16	29.09	113.09	-2,215.94	3,770.46	4,109.41	3,997.37	112.05	36.676		
8,650.00	7,146.16	7,136.06	7,038.51	96.18	29.09	112.85	-2,215.96	3,770.42	4,110.07	3,998.01	112.06	36.676		
8,700.00	7,185.66	7,172.38	7,074.82	96.84	29.21	106.91	-2,216.42	3,769.45	4,123.72	4,011.22	112.50	36.657		
8,750.00	7,225.78	7,206.16	7,108.58	97.47	29.33	100.52	-2,216.87	3,768.51	4,133.38	4,020.46	112.92	36.605		
8,800.00	7,266.21	7,240.21	7,142.61	98.08	29.44	93.92	-2,217.38	3,767.54	4,139.01	4,025.67	113.35	36.517		
8,850.00	7,306.63	7,275.23	7,177.62	98.64	29.56	87.35	-2,217.94	3,766.51	4,140.58	4,026.81	113.77	36.395		
8,900.00	7,346.75	7,310.39	7,212.76	99.17	29.67	81.06	-2,218.53	3,765.44	4,138.06	4,023.88	114.18	36.241		
8,950.00	7,386.25	7,345.04	7,247.39	99.64	29.79	75.24	-2,219.14	3,764.35	4,131.48	4,016.90	114.58	36.058		
9,000.00	7,424.84	7,378.94	7,281.26	100.06	29.91	70.04	-2,219.78	3,763.26	4,120.89	4,005.93	114.95	35.848		
9,050.00	7,462.22	7,615.87	7,518.07	100.42	30.65	67.46	-2,219.57	3,757.10	4,106.31	3,990.23	116.09	35.373		
9,100.00	7,498.11	7,655.59	7,557.77	100.74	30.76	63.80	-2,218.46	3,756.79	4,086.12	3,969.68	116.44	35.093		
9,150.00	7,532.24	7,684.60	7,586.77	100.99	30.84	60.76	-2,217.67	3,756.59	4,062.30	3,945.57	116.73	34.801		
9,200.00	7,564.34	7,711.83	7,613.99	101.19	30.92	58.40	-2,216.96	3,756.40	4,035.00	3,918.02	116.99	34.491		
9,250.00	7,594.17	7,741.20	7,643.35	101.34	31.00	56.74	-2,216.21	3,756.22	4,004.42	3,887.19	117.23	34.160		
9,300.00	7,621.50	7,770.19	7,672.33	101.45	31.08	55.77	-2,215.47	3,756.11	3,970.71	3,853.27	117.44	33.811		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,796.21	7,698.34	101.50	31.15	55.48	-2,214.80	3,756.07	3,934.12	3,816.51	117.62	33.448		
9,400.00	7,667.87	7,819.01	7,721.13	101.51	31.22	55.94	-2,214.20	3,756.08	3,894.91	3,777.15	117.76	33.074		
9,450.00	7,686.55	7,836.47	7,738.59	101.48	31.27	57.25	-2,213.75	3,756.10	3,853.36	3,735.49	117.87	32.691		
9,500.00	7,702.04	7,850.92	7,753.03	101.42	31.31	59.70	-2,213.37	3,756.13	3,809.76	3,691.80	117.95	32.299		
9,550.00	7,714.20	7,861.99	7,764.09	101.33	31.34	63.74	-2,213.08	3,756.16	3,764.41	3,646.40	118.01	31.899		
9,600.00	7,722.96	7,869.57	7,771.68	101.20	31.36	70.20	-2,212.88	3,756.18	3,717.63	3,599.59	118.04	31.494		
9,650.00	7,728.24	7,873.62	7,775.72	101.06	31.37	80.58	-2,212.78	3,756.19	3,669.76	3,551.71	118.05	31.086		
9,699.97	7,730.00	7,874.10	7,776.20	100.90	31.37	97.14	-2,212.77	3,756.19	3,621.16	3,503.11	118.05	30.675		
9,800.00	7,730.00	7,871.47	7,773.57	100.56	31.36	96.95	-2,212.83	3,756.19	3,523.40	3,405.37	118.03	29.852		
9,900.00	7,730.00	7,868.83	7,770.94	100.24	31.36	96.75	-2,212.90	3,756.18	3,425.81	3,307.80	118.01	29.031		
10,000.00	7,730.00	7,866.20	7,768.30	99.93	31.35	96.55	-2,212.97	3,756.17	3,328.35	3,210.37	117.98	28.211		
10,100.00	7,730.00	7,863.56	7,765.67	99.64	31.34	96.35	-2,213.04	3,756.17	3,231.05	3,113.09	117.95	27.393		
10,200.00	7,730.00	7,860.93	7,763.03	99.36	31.33	96.15	-2,213.11	3,756.16	3,133.91	3,015.99	117.92	26.576		
10,300.00	7,730.00	7,858.29	7,760.40	99.09	31.33	95.95	-2,213.18	3,756.15	3,036.96	2,919.07	117.89	25.762		
10,400.00	7,730.00	7,855.65	7,757.76	98.84	31.32	95.75	-2,213.25	3,756.15	2,940.21	2,822.36	117.85	24.949		
10,500.00	7,730.00	7,853.01	7,755.12	98.61	31.31	95.56	-2,213.31	3,756.14	2,843.68	2,725.88	117.80	24.139		
10,600.00	7,730.00	7,850.36	7,752.47	98.39	31.30	95.36	-2,213.38	3,756.13	2,747.40	2,629.65	117.76	23.331		
10,700.00	7,730.00	7,847.72	7,749.83	98.18	31.30	95.16	-2,213.45	3,756.13	2,651.39	2,533.69	117.70	22.527		
10,800.00	7,730.00	7,845.07	7,747.18	97.99	31.29	94.96	-2,213.52	3,756.12	2,555.69	2,438.05	117.63	21.726		
10,900.00	7,730.00	7,842.42	7,744.54	97.81	31.28	94.76	-2,213.59	3,756.12	2,460.32	2,342.76	117.56	20.928		
11,000.00	7,730.00	7,839.77	7,741.89	97.64	31.27	94.55	-2,213.66	3,756.11	2,365.33	2,247.86	117.48	20.134		
11,100.00	7,730.00	7,837.12	7,739.24	97.50	31.27	94.35	-2,213.73	3,756.11	2,270.78	2,153.40	117.38	19.346		
11,200.00	7,730.00	7,834.47	7,736.58	97.36	31.26	94.15	-2,213.80	3,756.10	2,176.70	2,059.43	117.26	18.562		
11,300.00	7,730.00	7,831.81	7,733.93	97.24	31.25	93.95	-2,213.87	3,756.10	2,083.17	1,966.04	117.13	17.785		
11,400.00	7,730.00	7,830.07	7,732.18	97.14	31.25	93.82	-2,213.91	3,756.10	1,990.27	1,873.29	116.98	17.014		
11,500.00	7,730.00	7,827.21	7,729.33	97.06	31.24	93.60	-2,213.99	3,756.09	1,898.09	1,781.29	116.80	16.251		
11,600.00	7,730.00	7,824.36	7,726.48	96.98	31.23	93.39	-2,214.06	3,756.09	1,806.73	1,690.15	116.58	15.498		
11,700.00	7,730.00	7,821.52	7,723.64	96.93	31.22	93.17	-2,214.14	3,756.08	1,716.34	1,600.02	116.31	14.756		
11,800.00	7,730.00	7,818.68	7,720.80	96.90	31.22	92.95	-2,214.21	3,756.08	1,627.06	1,511.06	116.00	14.026		
11,900.00	7,730.00	7,815.85	7,717.97	96.88	31.21	92.74	-2,214.28	3,756.07	1,539.10	1,423.48	115.62	13.311		
12,000.00	7,730.00	7,813.02	7,715.14	96.88	31.20	92.52	-2,214.36	3,756.07	1,452.69	1,337.52	115.17	12.614		
12,100.00	7,730.00	7,810.20	7,712.32	96.90	31.19	92.31	-2,214.43	3,756.07	1,368.13	1,253.52	114.61	11.937		
12,200.00	7,730.00	7,807.38	7,709.51	96.94	31.19	92.10	-2,214.51	3,756.07	1,285.79	1,171.85	113.94	11.285		
12,300.00	7,730.00	7,804.57	7,706.70	97.00	31.18	91.88	-2,214.58	3,756.06	1,206.11	1,092.99	113.11	10.663		
12,400.00	7,730.00	7,801.77	7,703.89	97.08	31.17	91.67	-2,214.65	3,756.06	1,129.65	1,017.56	112.10	10.077		
12,500.00	7,730.00	7,798.97	7,701.10	97.18	31.16	91.46	-2,214.72	3,756.06	1,057.13	946.28	110.86	9.536		
12,600.00	7,730.00	7,796.18	7,698.30	97.31	31.15	91.24	-2,214.80	3,756.07	989.41	880.06	109.35	9.048		
12,700.00	7,730.00	7,793.39	7,695.52	97.46	31.15	91.03	-2,214.87	3,756.07	927.53	819.99	107.55	8.625		
12,800.00	7,730.00	7,790.61	7,692.74	97.64	31.14	90.82	-2,214.94	3,756.07	872.75	767.32	105.43	8.278		
12,900.00	7,730.00	7,787.83	7,689.96	97.85	31.13	90.61	-2,215.01	3,756.07	826.47	723.42	103.04	8.021		
13,000.00	7,730.00	7,785.06	7,687.19	98.09	31.12	90.40	-2,215.09	3,756.08	790.18	689.67	100.52	7.861		
13,100.00	7,730.00	7,782.29	7,684.43	98.35	31.12	90.19	-2,215.16	3,756.08	765.32	667.23	98.09	7.802 SF		
13,200.00	7,730.00	7,779.53	7,681.67	98.65	31.11	89.97	-2,215.23	3,756.08	753.01	656.92	96.09	7.836		
13,243.50	7,730.00	7,778.34	7,680.47	98.79	31.10	89.88	-2,215.26	3,756.09	751.76	656.31	95.45	7.876 CC, ES		
13,300.00	7,730.00	7,776.78	7,678.92	98.98	31.10	89.76	-2,215.30	3,756.09	753.88	659.02	94.86	7.947		
13,400.00	7,730.00	7,774.03	7,676.17	99.34	31.09	89.56	-2,215.37	3,756.10	767.86	673.29	94.58	8.119		
13,500.00	7,730.00	7,771.29	7,673.43	99.74	31.08	89.35	-2,215.44	3,756.10	794.28	699.08	95.21	8.343		
13,600.00	7,730.00	7,768.55	7,670.69	100.17	31.08	89.14	-2,215.51	3,756.11	831.95	735.44	96.52	8.620		
13,700.00	7,730.00	7,765.82	7,667.96	100.65	31.07	88.93	-2,215.58	3,756.12	879.42	781.21	98.21	8.954		
13,800.00	7,730.00	7,763.09	7,665.23	101.16	31.06	88.72	-2,215.65	3,756.13	935.21	835.17	100.04	9.349		
13,900.00	7,730.00	7,760.37	7,662.51	101.71	31.05	88.51	-2,215.72	3,756.13	997.91	896.09	101.83	9.800		
14,000.00	7,730.00	7,757.66	7,659.80	102.30	31.05	88.31	-2,215.79	3,756.14	1,066.32	962.84	103.48	10.305		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 120-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,754.95	7,657.09	102.93	31.04	88.10	-2,215.86	3,756.15	1,139.39	1,034.43	104.96	10.855		
14,200.00	7,730.00	7,752.24	7,654.38	103.60	31.03	87.90	-2,215.93	3,756.17	1,216.30	1,110.03	106.27	11.446		
14,300.00	7,730.00	7,749.54	7,651.69	104.32	31.02	87.69	-2,216.00	3,756.18	1,296.36	1,188.96	107.40	12.070		
14,400.00	7,730.00	7,746.85	7,648.99	105.07	31.02	87.49	-2,216.07	3,756.19	1,379.02	1,270.63	108.39	12.722		
14,500.00	7,730.00	7,744.16	7,646.30	105.86	31.01	87.28	-2,216.14	3,756.20	1,463.84	1,354.59	109.25	13.399		
14,600.00	7,730.00	7,741.47	7,643.62	106.70	31.00	87.08	-2,216.20	3,756.22	1,550.47	1,440.47	109.99	14.096		
14,700.00	7,730.00	7,738.80	7,640.94	107.57	30.99	86.87	-2,216.27	3,756.23	1,638.61	1,527.97	110.64	14.810		
14,800.00	7,730.00	7,736.12	7,638.27	108.48	30.99	86.67	-2,216.34	3,756.24	1,728.05	1,616.83	111.21	15.538		
14,900.00	7,730.00	7,733.70	7,635.85	109.43	30.98	86.49	-2,216.41	3,756.25	1,818.57	1,706.86	111.71	16.279		
15,000.00	7,730.00	7,731.04	7,633.19	110.42	30.97	86.28	-2,216.47	3,756.27	1,910.05	1,797.89	112.16	17.030		
15,100.00	7,730.00	7,728.35	7,630.50	111.43	30.97	86.08	-2,216.54	3,756.29	2,002.33	1,889.78	112.55	17.791		
15,200.00	7,730.00	7,725.64	7,627.79	112.49	30.96	85.87	-2,216.61	3,756.31	2,095.32	1,982.42	112.90	18.560		
15,300.00	7,730.00	7,722.91	7,625.06	113.57	30.95	85.67	-2,216.68	3,756.32	2,188.92	2,075.72	113.21	19.335		
15,400.00	7,730.00	7,720.16	7,622.31	114.68	30.94	85.46	-2,216.74	3,756.34	2,283.07	2,169.58	113.49	20.117		
15,500.00	7,730.00	7,717.38	7,619.54	115.82	30.93	85.25	-2,216.82	3,756.36	2,377.69	2,263.94	113.74	20.904		
15,600.00	7,730.00	7,714.58	7,616.74	116.99	30.93	85.04	-2,216.89	3,756.38	2,472.73	2,358.75	113.97	21.696		
15,700.00	7,730.00	7,711.76	7,613.92	118.19	30.92	84.82	-2,216.96	3,756.40	2,568.14	2,453.96	114.18	22.492		
15,800.00	7,730.00	7,708.92	7,611.08	119.41	30.91	84.61	-2,217.03	3,756.42	2,663.89	2,549.51	114.37	23.291		
15,900.00	7,730.00	7,706.05	7,608.21	120.65	30.90	84.39	-2,217.11	3,756.44	2,759.93	2,645.39	114.55	24.094		
16,000.00	7,730.00	7,703.16	7,605.32	121.91	30.89	84.17	-2,217.18	3,756.46	2,856.25	2,741.54	114.71	24.899		
16,100.00	7,730.00	7,700.25	7,602.41	123.20	30.89	83.95	-2,217.26	3,756.48	2,952.81	2,837.95	114.86	25.708		
16,200.00	7,730.00	7,697.31	7,599.47	124.50	30.88	83.73	-2,217.33	3,756.50	3,049.58	2,934.59	115.00	26.518		
16,300.00	7,730.00	7,694.34	7,596.51	125.82	30.87	83.51	-2,217.41	3,756.52	3,146.56	3,031.43	115.13	27.331		
16,400.00	7,730.00	7,691.35	7,593.52	127.16	30.86	83.28	-2,217.49	3,756.54	3,243.72	3,128.47	115.25	28.146		
16,500.00	7,730.00	7,688.34	7,590.50	128.52	30.85	83.06	-2,217.57	3,756.56	3,341.04	3,225.68	115.36	28.962		
16,600.00	7,730.00	7,685.30	7,587.47	129.89	30.84	82.83	-2,217.65	3,756.58	3,438.51	3,323.05	115.47	29.780		
16,700.00	7,730.00	7,682.23	7,584.40	131.27	30.84	82.60	-2,217.73	3,756.60	3,536.13	3,420.56	115.56	30.599		
16,800.00	7,730.00	7,679.14	7,581.31	132.67	30.83	82.37	-2,217.81	3,756.63	3,633.87	3,518.21	115.66	31.419		
16,900.00	7,730.00	7,676.02	7,578.19	134.09	30.82	82.13	-2,217.90	3,756.65	3,731.73	3,615.98	115.75	32.241		
17,000.00	7,730.00	7,672.88	7,575.05	135.51	30.81	81.90	-2,217.98	3,756.67	3,829.69	3,713.86	115.83	33.063		
17,100.00	7,730.00	7,669.71	7,571.88	136.95	30.80	81.66	-2,218.07	3,756.69	3,927.76	3,811.85	115.91	33.886		
17,200.00	7,730.00	7,666.51	7,568.68	138.40	30.79	81.42	-2,218.16	3,756.72	4,025.92	3,909.93	115.99	34.711		
17,300.00	7,730.00	7,663.28	7,565.45	139.85	30.78	81.18	-2,218.24	3,756.74	4,124.16	4,008.11	116.06	35.536		
17,400.00	7,730.00	7,660.02	7,562.20	141.32	30.77	80.94	-2,218.33	3,756.76	4,222.49	4,106.36	116.13	36.361		
17,500.00	7,730.00	7,656.74	7,558.91	142.80	30.76	80.69	-2,218.42	3,756.79	4,320.89	4,204.70	116.19	37.187		
17,600.00	7,730.00	7,653.42	7,555.60	144.28	30.76	80.45	-2,218.52	3,756.81	4,419.36	4,303.11	116.26	38.014		
17,700.00	7,730.00	7,650.08	7,552.26	145.78	30.75	80.20	-2,218.61	3,756.84	4,517.90	4,401.58	116.32	38.841		
17,800.00	7,730.00	7,646.70	7,548.89	147.28	30.74	79.95	-2,218.70	3,756.86	4,616.49	4,500.12	116.38	39.669		
17,900.00	7,730.00	7,643.30	7,545.48	148.79	30.73	79.70	-2,218.80	3,756.88	4,715.15	4,598.72	116.43	40.497		
18,000.00	7,730.00	7,639.86	7,542.05	150.31	30.72	79.44	-2,218.90	3,756.91	4,813.86	4,697.37	116.49	41.325		
18,100.00	7,730.00	7,636.40	7,538.59	151.83	30.71	79.19	-2,218.99	3,756.94	4,912.61	4,796.07	116.54	42.154		
18,200.00	7,730.00	7,632.90	7,535.09	153.37	30.70	78.93	-2,219.09	3,756.96	5,011.42	4,894.83	116.59	42.982		
18,300.00	7,730.00	7,629.37	7,531.56	154.90	30.69	78.67	-2,219.20	3,756.99	5,110.27	4,993.63	116.64	43.811		
18,400.00	7,730.00	7,625.80	7,528.01	156.45	30.68	78.57	-2,219.23	3,757.00	5,209.16	5,092.47	116.69	44.639		
18,500.00	7,730.00	7,622.00	7,524.01	158.00	30.68	78.57	-2,219.23	3,757.00	5,308.09	5,191.35	116.75	45.466		
18,600.00	7,730.00	7,618.00	7,520.01	159.55	30.68	78.57	-2,219.23	3,757.00	5,407.07	5,290.27	116.80	46.294		
18,700.00	7,730.00	7,614.00	7,516.01	161.11	30.68	78.57	-2,219.23	3,757.00	5,506.08	5,389.22	116.85	47.121		
18,800.00	7,730.00	7,610.00	7,512.01	162.68	30.68	78.57	-2,219.23	3,757.00	5,605.12	5,488.22	116.90	47.948		
18,900.00	7,730.00	7,606.00	7,508.01	164.25	30.68	78.57	-2,219.23	3,757.00	5,704.20	5,587.25	116.95	48.775		
19,000.00	7,730.00	7,602.00	7,504.01	165.83	30.68	78.57	-2,219.23	3,757.00	5,803.31	5,686.31	117.00	49.602		
19,100.00	7,730.00	7,598.00	7,500.01	167.41	30.68	78.57	-2,219.23	3,757.00	5,902.45	5,785.40	117.05	50.429		
19,200.00	7,730.00	7,594.00	7,496.01	168.99	30.68	78.57	-2,219.23	3,757.00	6,001.62	5,884.52	117.09	51.256		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		120-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,628.00	7,530.19	170.58	30.68	78.57	-2,219.23	3,757.00	6,100.81	5,983.67	117.14	52.082	
19,400.00	7,730.00	7,611.16	7,513.36	172.17	30.64	77.34	-2,219.70	3,757.15	6,199.99	6,082.83	117.16	52.921	
19,430.54	7,730.00	7,610.72	7,512.92	172.66	30.63	77.31	-2,219.71	3,757.15	6,230.29	6,113.12	117.17	53.173	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	124.02	-3,055.97	4,526.52	5,461.72					
100.00	100.00	49.86	49.86	0.13	0.08	124.03	-3,056.06	4,526.49	5,461.56	5,461.34	0.21	N/A		
200.00	200.00	150.93	150.93	0.49	0.36	124.03	-3,056.65	4,526.24	5,461.68	5,460.83	0.85	6,427.276		
300.00	300.00	208.21	208.21	0.85	0.56	124.04	-3,057.02	4,526.16	5,462.02	5,460.61	1.41	3,868.192		
400.00	400.00	246.58	246.57	1.21	0.70	124.04	-3,057.36	4,526.59	5,463.44	5,461.54	1.91	2,865.890		
500.00	500.00	273.00	272.98	1.57	0.79	124.04	-3,057.66	4,527.14	5,466.03	5,463.67	2.36	2,317.681		
600.00	599.98	317.21	317.16	1.92	0.95	58.64	-3,058.22	4,528.66	5,468.83	5,465.97	2.87	1,907.998		
700.00	699.84	364.00	363.88	2.28	1.11	58.61	-3,058.87	4,531.15	5,471.11	5,467.73	3.38	1,618.714		
800.00	799.45	364.00	363.88	2.64	1.11	58.58	-3,058.87	4,531.15	5,472.80	5,469.07	3.74	1,464.178		
900.00	898.70	406.52	406.27	3.02	1.27	58.60	-3,059.62	4,534.29	5,473.88	5,469.62	4.26	1,285.896		
1,000.00	997.47	455.00	454.51	3.41	1.45	58.64	-3,060.78	4,539.01	5,474.75	5,469.94	4.81	1,138.246		
1,100.00	1,095.62	455.00	454.51	3.84	1.45	58.64	-3,060.78	4,539.01	5,474.81	5,469.60	5.21	1,050.943		
1,200.00	1,193.06	779.49	775.66	4.29	2.71	59.08	-3,054.88	4,574.93	5,469.68	5,462.84	6.84	799.758		
1,300.00	1,289.64	824.00	819.44	4.78	2.88	59.24	-3,054.63	4,582.68	5,466.55	5,459.09	7.46	732.806		
1,400.00	1,385.27	824.00	819.44	5.32	2.88	59.35	-3,054.63	4,582.68	5,460.03	5,452.08	7.95	686.799		
1,500.00	1,479.82	824.00	819.44	5.90	2.88	59.47	-3,054.63	4,582.68	5,453.56	5,445.08	8.48	643.224		
1,600.00	1,573.17	824.00	819.44	6.53	2.88	59.58	-3,054.63	4,582.68	5,447.14	5,438.09	9.05	601.924		
1,700.00	1,665.21	824.00	819.44	7.23	2.88	59.69	-3,054.63	4,582.68	5,440.79	5,431.12	9.67	562.811		
1,800.00	1,755.84	824.00	819.44	7.98	2.88	59.80	-3,054.63	4,582.68	5,434.51	5,424.18	10.33	525.840		
1,900.00	1,844.94	824.00	819.44	8.80	2.88	59.90	-3,054.63	4,582.68	5,428.31	5,417.26	11.06	490.985		
2,000.00	1,932.39	824.00	819.44	9.68	2.88	60.01	-3,054.63	4,582.68	5,422.20	5,410.37	11.83	458.222		
2,100.00	2,018.11	824.00	819.44	10.63	2.88	60.11	-3,054.63	4,582.68	5,416.19	5,403.52	12.67	427.521		
2,200.00	2,101.97	867.36	861.58	11.65	3.10	60.40	-3,056.98	4,592.60	5,409.81	5,396.07	13.74	393.645		
2,300.00	2,183.88	919.00	911.53	12.74	3.35	60.75	-3,059.66	4,605.43	5,403.08	5,388.15	14.92	362.050		
2,400.00	2,263.74	919.00	911.53	13.90	3.35	60.88	-3,059.66	4,605.43	5,395.83	5,379.88	15.95	338.370		
2,431.61	2,288.54	919.00	911.53	14.29	3.35	60.92	-3,059.66	4,605.43	5,393.56	5,377.28	16.28	331.247		
2,500.00	2,341.97	957.80	948.87	15.13	3.56	61.11	-3,061.78	4,615.77	5,388.64	5,371.44	17.20	313.243		
2,600.00	2,420.08	1,013.00	1,001.65	16.37	3.85	61.37	-3,065.29	4,631.52	5,383.10	5,364.55	18.55	290.142		
2,700.00	2,498.20	1,013.00	1,001.65	17.63	3.85	61.37	-3,065.29	4,631.52	5,378.46	5,358.79	19.67	273.502		
2,800.00	2,576.32	1,013.00	1,001.65	18.89	3.85	61.37	-3,065.29	4,631.52	5,375.67	5,354.88	20.78	258.644		
2,900.00	2,654.43	1,061.12	1,047.35	20.17	4.14	61.60	-3,068.98	4,646.13	5,373.97	5,351.82	22.15	242.611		
2,955.64	2,697.89	1,075.19	1,060.65	20.88	4.23	61.67	-3,070.21	4,650.54	5,373.75	5,350.90	22.85	235.173		
3,000.00	2,732.55	1,107.00	1,090.64	21.45	4.42	61.82	-3,073.22	4,660.74	5,374.03	5,350.51	23.52	228.501		
3,100.00	2,810.67	1,107.00	1,090.64	22.74	4.42	61.82	-3,073.22	4,660.74	5,375.26	5,350.61	24.65	218.046		
3,200.00	2,888.78	1,162.84	1,143.00	24.03	4.78	62.08	-3,078.69	4,679.33	5,377.80	5,351.70	26.10	206.076		
3,300.00	2,966.90	1,214.00	1,190.73	25.33	5.12	62.32	-3,083.48	4,697.13	5,381.41	5,353.89	27.52	195.541		
3,400.00	3,045.02	1,281.64	1,253.66	26.63	5.59	62.63	-3,089.90	4,721.07	5,385.90	5,356.84	29.06	185.349		
3,500.00	3,123.13	1,373.52	1,339.12	27.94	6.25	63.05	-3,098.86	4,753.60	5,390.92	5,360.16	30.76	175.269		
3,600.00	3,201.25	1,471.31	1,429.95	29.24	6.96	63.48	-3,107.59	4,788.76	5,396.12	5,363.61	32.52	165.945		
3,700.00	3,279.37	1,537.30	1,491.15	30.55	7.46	63.77	-3,113.21	4,812.80	5,401.75	5,367.65	34.09	158.435		
3,800.00	3,357.49	1,593.01	1,542.69	31.86	7.88	64.02	-3,118.15	4,833.39	5,408.26	5,372.65	35.61	151.861		
3,900.00	3,435.60	1,676.83	1,620.10	33.18	8.52	64.38	-3,125.76	4,864.61	5,415.44	5,378.11	37.33	145.066		
4,000.00	3,513.72	1,815.18	1,748.13	34.49	9.59	64.98	-3,137.58	4,915.68	5,422.21	5,382.78	39.44	137.496		
4,100.00	3,591.84	1,874.00	1,802.53	35.81	10.04	65.24	-3,142.71	4,937.45	5,429.57	5,388.56	41.01	132.400		
4,200.00	3,669.95	2,000.00	1,946.90	37.12	27.74	65.92	-3,156.81	4,994.10	5,437.16	5,382.17	54.98	98.885		
4,300.00	3,748.07	2,158.00	2,066.63	38.44	12.20	66.49	-3,167.51	5,038.84	5,443.27	5,397.93	45.33	120.078		
4,400.00	3,826.19	2,211.18	2,116.17	39.76	12.61	66.72	-3,171.79	5,057.73	5,450.24	5,403.34	46.90	116.218		
4,500.00	3,904.30	2,252.00	2,153.97	41.08	12.93	66.90	-3,175.21	5,072.73	5,458.45	5,410.08	48.37	112.841		
4,600.00	3,982.42	2,380.04	2,272.62	42.40	13.93	67.45	-3,185.99	5,119.63	5,466.87	5,416.38	50.50	108.262		
4,700.00	4,060.54	2,466.05	2,352.33	43.72	14.60	67.82	-3,193.18	5,151.16	5,475.62	5,423.29	52.32	104.655		
4,800.00	4,138.66	2,562.13	2,441.57	45.05	15.34	68.23	-3,201.24	5,185.81	5,484.29	5,430.06	54.23	101.133		
4,900.00	4,216.77	2,606.58	2,482.75	46.37	15.69	68.42	-3,205.10	5,202.09	5,493.87	5,438.12	55.75	98.539		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	2,660.39	2,532.40	47.69	16.12	68.65	-3,209.93	5,222.28	5,504.48	5,447.12	57.35	95.978		
5,100.00	4,373.01	2,724.87	2,591.70	49.02	16.65	68.92	-3,215.74	5,246.90	5,515.86	5,456.82	59.04	93.428		
5,200.00	4,451.12	2,809.87	2,669.78	50.34	17.35	69.27	-3,223.49	5,279.62	5,527.80	5,466.90	60.90	90.770		
5,300.00	4,529.24	2,942.01	2,791.44	51.67	18.42	69.81	-3,235.39	5,329.77	5,539.54	5,476.39	63.15	87.721		
5,400.00	4,607.36	3,007.91	2,852.18	52.99	18.95	70.09	-3,241.49	5,354.61	5,551.62	5,486.75	64.86	85.589		
5,500.00	4,685.47	3,083.88	2,922.08	54.32	19.58	70.40	-3,248.63	5,383.50	5,564.31	5,497.64	66.67	83.463		
5,600.00	4,763.59	3,144.94	2,978.11	55.64	20.08	70.65	-3,254.33	5,407.09	5,577.62	5,509.26	68.35	81.601		
5,700.00	4,841.71	3,291.00	3,111.75	56.97	21.31	71.23	-3,267.54	5,464.52	5,591.61	5,520.82	70.78	78.998		
5,800.00	4,919.83	3,356.54	3,171.90	58.30	21.85	71.49	-3,273.17	5,489.93	5,604.98	5,532.46	72.52	77.291		
5,900.00	4,997.94	3,464.78	3,271.40	59.62	22.74	71.93	-3,283.40	5,531.28	5,618.93	5,544.31	74.62	75.297		
6,000.00	5,076.06	3,573.46	3,371.57	60.95	23.63	72.37	-3,293.44	5,572.25	5,632.65	5,555.91	76.74	73.401		
6,100.00	5,154.18	3,608.59	3,403.83	62.28	23.93	72.51	-3,296.61	5,585.78	5,646.98	5,568.76	78.22	72.196		
6,200.00	5,232.29	3,668.00	3,458.03	63.61	24.43	72.75	-3,302.36	5,609.41	5,662.62	5,582.71	79.91	70.864		
6,300.00	5,310.41	3,818.31	3,595.61	64.93	25.69	73.33	-3,316.26	5,668.34	5,678.07	5,595.63	82.44	68.877		
6,400.00	5,388.53	3,907.30	3,677.58	66.26	26.42	73.69	-3,324.97	5,701.85	5,693.25	5,608.85	84.40	67.457		
6,500.00	5,466.64	4,025.36	3,786.50	67.59	27.38	74.17	-3,336.49	5,745.92	5,708.50	5,621.88	86.63	65.899		
6,600.00	5,544.76	4,143.30	3,895.28	68.92	28.34	74.63	-3,347.05	5,790.24	5,723.52	5,634.66	88.86	64.411		
6,700.00	5,622.88	4,264.10	4,007.03	70.25	29.30	75.11	-3,357.34	5,834.94	5,738.09	5,646.96	91.12	62.972		
6,800.00	5,701.00	4,329.00	4,067.07	71.58	29.82	75.37	-3,363.16	5,858.90	5,753.25	5,660.37	92.88	61.943		
6,900.00	5,779.11	4,389.41	4,122.87	72.91	30.31	75.61	-3,368.84	5,881.34	5,769.12	5,674.52	94.60	60.986		
7,000.00	5,857.23	4,470.18	4,197.28	74.23	30.97	75.92	-3,376.28	5,911.88	5,785.50	5,688.99	96.51	59.947		
7,100.00	5,935.35	6,249.44	5,925.40	75.56	39.52	84.82	-3,456.10	6,246.81	5,788.41	5,680.98	107.43	53.881		
7,200.00	6,013.46	6,331.14	6,007.10	76.89	39.66	85.33	-3,455.77	6,246.36	5,780.75	5,671.58	109.17	52.953		
7,300.00	6,091.58	6,410.74	6,086.70	78.22	39.79	85.82	-3,455.35	6,245.99	5,773.73	5,662.83	110.90	52.063		
7,400.00	6,169.70	6,488.62	6,164.58	79.55	39.93	86.30	-3,454.92	6,245.66	5,767.36	5,654.74	112.62	51.209		
7,500.00	6,247.81	6,574.01	6,249.96	80.88	40.09	86.83	-3,454.38	6,245.33	5,761.63	5,647.28	114.35	50.384		
7,600.00	6,325.93	6,654.92	6,330.87	82.21	40.24	87.34	-3,453.73	6,245.07	5,756.48	5,640.41	116.07	49.593		
7,700.00	6,404.05	6,728.97	6,404.92	83.54	40.38	87.80	-3,453.12	6,244.87	5,752.01	5,634.23	117.78	48.838		
7,800.00	6,482.17	6,797.12	6,473.07	84.87	40.51	88.22	-3,452.49	6,245.00	5,748.31	5,628.84	119.47	48.116		
7,900.00	6,560.28	6,854.54	6,530.48	86.20	40.63	88.57	-3,451.94	6,245.53	5,745.50	5,624.36	121.14	47.430		
8,000.00	6,638.40	6,920.89	6,596.82	87.53	40.78	88.97	-3,451.30	6,246.64	5,743.61	5,620.79	122.81	46.766		
8,100.00	6,716.52	7,005.24	6,681.14	88.86	40.97	89.48	-3,450.42	6,248.38	5,742.44	5,617.92	124.52	46.116		
8,200.00	6,794.63	7,120.39	6,796.27	90.20	41.23	90.18	-3,448.88	6,250.34	5,741.57	5,615.29	126.28	45.467		
8,300.00	6,872.75	7,210.11	6,885.96	91.53	41.43	90.72	-3,447.33	6,251.60	5,740.97	5,612.99	127.97	44.860		
8,340.02	6,904.01	7,239.78	6,915.63	92.06	41.49	90.91	-3,446.83	6,251.99	5,740.91	5,612.27	128.64	44.628		
8,400.00	6,950.87	7,295.88	6,971.72	92.86	41.62	91.25	-3,445.90	6,252.68	5,741.01	5,611.36	129.65	44.281		
8,500.00	7,028.98	7,372.79	7,048.61	94.19	41.78	91.72	-3,444.57	6,253.26	5,741.51	5,610.22	131.29	43.730		
8,600.00	7,107.10	7,414.54	7,090.36	95.52	41.87	91.98	-3,444.15	6,253.39	5,743.05	5,610.19	132.86	43.228		
8,647.91	7,144.53	7,448.00	7,123.82	96.16	41.93	92.18	-3,444.07	6,253.38	5,744.23	5,610.61	133.62	42.988		
8,650.00	7,146.16	7,448.00	7,123.82	96.18	41.93	91.94	-3,444.07	6,253.38	5,744.28	5,610.63	133.65	42.979		
8,700.00	7,185.66	7,478.03	7,153.85	96.84	41.99	85.92	-3,444.06	6,253.31	5,743.48	5,609.05	134.43	42.725		
8,750.00	7,225.78	7,556.71	7,232.53	97.47	42.14	79.63	-3,443.75	6,252.90	5,738.52	5,603.24	135.27	42.422		
8,800.00	7,266.21	7,641.60	7,317.41	98.08	42.31	73.00	-3,442.92	6,252.04	5,729.30	5,593.21	136.09	42.100		
8,850.00	7,306.63	7,752.41	7,428.19	98.64	42.53	66.38	-3,440.56	6,250.64	5,715.56	5,578.66	136.90	41.750		
8,900.00	7,346.75	7,788.40	7,464.16	99.17	42.60	59.42	-3,439.61	6,250.20	5,697.92	5,560.36	137.56	41.422		
8,950.00	7,386.25	7,823.77	7,499.52	99.64	42.67	52.74	-3,438.70	6,249.81	5,676.56	5,538.40	138.17	41.085		
9,000.00	7,424.84	7,823.00	7,498.75	100.06	42.67	46.24	-3,438.72	6,249.81	5,651.75	5,513.09	138.67	40.758		
9,050.00	7,462.22	7,823.00	7,498.75	100.42	42.67	40.16	-3,438.72	6,249.81	5,623.75	5,484.64	139.11	40.428		
9,100.00	7,498.11	7,856.74	7,532.48	100.74	42.74	34.61	-3,438.04	6,249.60	5,592.39	5,452.84	139.55	40.075		
9,150.00	7,532.24	7,867.09	7,542.83	100.99	42.76	29.19	-3,437.91	6,249.59	5,558.29	5,418.40	139.89	39.734		
9,200.00	7,564.34	7,876.91	7,552.64	101.19	42.78	23.86	-3,437.82	6,249.62	5,521.51	5,381.35	140.16	39.394		
9,250.00	7,594.17	7,886.11	7,561.85	101.34	42.80	18.42	-3,437.76	6,249.66	5,482.30	5,341.93	140.38	39.054		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,918.00	7,593.74	101.45	42.87	12.65	-3,437.79	6,249.99	5,441.07	5,300.50	140.58	38.705		
9,350.00	7,646.13	7,918.00	7,593.74	101.50	42.87	5.97	-3,437.79	6,249.99	5,397.70	5,257.04	140.66	38.374		
9,400.00	7,667.87	7,918.00	7,593.74	101.51	42.87	-2.02	-3,437.79	6,249.99	5,352.77	5,212.09	140.69	38.048		
9,450.00	7,686.55	7,918.00	7,593.74	101.48	42.87	-12.01	-3,437.79	6,249.99	5,306.59	5,165.94	140.66	37.727		
9,500.00	7,702.04	7,924.59	7,600.32	101.42	42.89	-24.82	-3,437.83	6,250.08	5,259.48	5,118.89	140.60	37.408		
9,550.00	7,714.20	7,935.56	7,611.29	101.33	42.92	-40.79	-3,437.89	6,250.25	5,211.76	5,071.25	140.51	37.093		
9,600.00	7,722.96	7,943.53	7,619.26	101.20	42.94	-58.47	-3,437.94	6,250.39	5,163.79	5,023.43	140.37	36.788		
9,650.00	7,728.24	7,948.45	7,624.18	101.06	42.95	-74.93	-3,437.97	6,250.47	5,115.96	4,975.78	140.18	36.496		
9,699.97	7,730.00	7,950.26	7,625.99	100.90	42.95	-88.07	-3,437.98	6,250.50	5,068.66	4,928.71	139.95	36.217		
9,800.00	7,730.00	7,950.78	7,626.51	100.56	42.95	-88.08	-3,437.98	6,250.51	4,974.89	4,835.44	139.45	35.676		
9,900.00	7,730.00	7,951.29	7,627.02	100.24	42.96	-88.10	-3,437.99	6,250.52	4,881.39	4,742.47	138.92	35.138		
10,000.00	7,730.00	7,951.80	7,627.53	99.93	42.96	-88.12	-3,437.99	6,250.53	4,788.15	4,649.78	138.37	34.604		
10,100.00	7,730.00	7,952.32	7,628.05	99.64	42.96	-88.13	-3,437.99	6,250.54	4,695.20	4,557.40	137.80	34.073		
10,200.00	7,730.00	7,952.83	7,628.56	99.36	42.96	-88.15	-3,438.00	6,250.55	4,602.53	4,465.33	137.20	33.546		
10,300.00	7,730.00	7,953.34	7,629.07	99.09	42.96	-88.17	-3,438.00	6,250.56	4,510.18	4,373.60	136.58	33.023		
10,400.00	7,730.00	7,953.86	7,629.59	98.84	42.96	-88.18	-3,438.00	6,250.57	4,418.17	4,282.24	135.93	32.504		
10,500.00	7,730.00	7,954.37	7,630.10	98.61	42.96	-88.20	-3,438.01	6,250.58	4,326.50	4,191.26	135.24	31.990		
10,600.00	7,730.00	7,954.88	7,630.61	98.39	42.96	-88.22	-3,438.01	6,250.59	4,235.22	4,100.69	134.53	31.481		
10,700.00	7,730.00	7,955.39	7,631.12	98.18	42.97	-88.23	-3,438.01	6,250.60	4,144.34	4,010.55	133.78	30.978		
10,800.00	7,730.00	7,955.90	7,631.63	97.99	42.97	-88.25	-3,438.01	6,250.60	4,053.88	3,920.88	133.00	30.480		
10,900.00	7,730.00	7,956.41	7,632.14	97.81	42.97	-88.27	-3,438.02	6,250.61	3,963.89	3,831.71	132.18	29.988		
11,000.00	7,730.00	7,956.92	7,632.65	97.64	42.97	-88.28	-3,438.02	6,250.62	3,874.38	3,743.06	131.32	29.503		
11,100.00	7,730.00	7,957.43	7,633.16	97.50	42.97	-88.30	-3,438.02	6,250.63	3,785.40	3,654.98	130.42	29.025		
11,200.00	7,730.00	7,957.94	7,633.66	97.36	42.97	-88.32	-3,438.03	6,250.64	3,696.99	3,567.52	129.47	28.554		
11,300.00	7,730.00	7,958.44	7,634.17	97.24	42.97	-88.33	-3,438.03	6,250.65	3,609.18	3,480.70	128.48	28.092		
11,400.00	7,730.00	7,958.95	7,634.68	97.14	42.98	-88.35	-3,438.03	6,250.66	3,522.01	3,394.58	127.43	27.638		
11,500.00	7,730.00	7,959.46	7,635.19	97.06	42.98	-88.37	-3,438.04	6,250.67	3,435.55	3,309.22	126.34	27.193		
11,600.00	7,730.00	7,959.96	7,635.69	96.98	42.98	-88.38	-3,438.04	6,250.68	3,349.84	3,224.66	125.19	26.759		
11,700.00	7,730.00	7,960.47	7,636.20	96.93	42.98	-88.40	-3,438.04	6,250.69	3,264.95	3,140.97	123.98	26.335		
11,800.00	7,730.00	7,960.97	7,636.70	96.90	42.98	-88.42	-3,438.04	6,250.70	3,180.93	3,058.22	122.71	25.922		
11,900.00	7,730.00	7,961.48	7,637.21	96.88	42.98	-88.43	-3,438.05	6,250.71	3,097.86	2,976.48	121.38	25.521		
12,000.00	7,730.00	7,961.98	7,637.71	96.88	42.98	-88.45	-3,438.05	6,250.72	3,015.82	2,895.83	119.99	25.134		
12,100.00	7,730.00	7,962.49	7,638.22	96.90	42.98	-88.47	-3,438.05	6,250.73	2,934.90	2,816.36	118.54	24.759		
12,200.00	7,730.00	7,962.99	7,638.72	96.94	42.99	-88.48	-3,438.06	6,250.74	2,855.18	2,738.16	117.02	24.399		
12,300.00	7,730.00	7,963.49	7,639.22	97.00	42.99	-88.50	-3,438.06	6,250.75	2,776.78	2,661.34	115.44	24.054		
12,400.00	7,730.00	7,964.00	7,639.73	97.08	42.99	-88.52	-3,438.06	6,250.76	2,699.80	2,586.00	113.80	23.724		
12,500.00	7,730.00	7,964.50	7,640.23	97.18	42.99	-88.53	-3,438.07	6,250.76	2,624.38	2,512.27	112.11	23.410		
12,600.00	7,730.00	7,965.00	7,640.73	97.31	42.99	-88.55	-3,438.07	6,250.77	2,550.64	2,440.28	110.37	23.110		
12,700.00	7,730.00	7,965.50	7,641.23	97.46	42.99	-88.56	-3,438.07	6,250.78	2,478.75	2,370.16	108.60	22.825		
12,800.00	7,730.00	7,966.00	7,641.73	97.64	42.99	-88.58	-3,438.07	6,250.79	2,408.87	2,302.06	106.81	22.553		
12,900.00	7,730.00	7,966.50	7,642.23	97.85	42.99	-88.60	-3,438.08	6,250.80	2,341.17	2,236.14	105.03	22.291		
13,000.00	7,730.00	7,967.00	7,642.73	98.09	42.99	-88.61	-3,438.08	6,250.81	2,275.85	2,172.58	103.28	22.036		
13,100.00	7,730.00	7,967.50	7,643.23	98.35	43.00	-88.63	-3,438.08	6,250.82	2,213.13	2,111.53	101.60	21.783		
13,200.00	7,730.00	7,968.00	7,643.73	98.65	43.00	-88.65	-3,438.09	6,250.83	2,153.22	2,053.18	100.04	21.524		
13,300.00	7,730.00	7,968.50	7,644.23	98.98	43.00	-88.66	-3,438.09	6,250.84	2,096.37	1,997.73	98.64	21.252		
13,400.00	7,730.00	7,969.00	7,644.72	99.34	43.00	-88.68	-3,438.09	6,250.85	2,042.84	1,945.36	97.48	20.956		
13,500.00	7,730.00	7,969.50	7,645.22	99.74	43.00	-88.70	-3,438.09	6,250.86	1,992.90	1,896.27	96.62	20.625		
13,600.00	7,730.00	7,969.99	7,645.72	100.17	43.00	-88.71	-3,438.10	6,250.87	1,946.81	1,850.67	96.13	20.251		
13,700.00	7,730.00	7,970.49	7,646.22	100.65	43.00	-88.73	-3,438.10	6,250.88	1,904.86	1,808.77	96.09	19.825		
13,800.00	7,730.00	7,970.98	7,646.71	101.16	43.00	-88.74	-3,438.10	6,250.89	1,867.33	1,770.79	96.54	19.343		
13,900.00	7,730.00	7,971.48	7,647.21	101.71	43.01	-88.76	-3,438.11	6,250.90	1,834.48	1,736.95	97.53	18.810		
14,000.00	7,730.00	7,971.98	7,647.70	102.30	43.01	-88.78	-3,438.11	6,250.91	1,806.58	1,707.50	99.08	18.233		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 91-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,972.47	7,648.20	102.93	43.01	-88.79	-3,438.11	6,250.92	1,783.86	1,682.67	101.20	17.627		
14,200.00	7,730.00	7,972.96	7,648.69	103.60	43.01	-88.81	-3,438.12	6,250.93	1,766.52	1,662.68	103.84	17.012		
14,300.00	7,730.00	7,973.46	7,649.18	104.32	43.01	-88.83	-3,438.12	6,250.94	1,754.71	1,647.77	106.95	16.408		
14,400.00	7,730.00	7,973.95	7,649.68	105.07	43.01	-88.84	-3,438.12	6,250.95	1,748.55	1,638.11	110.44	15.832		
14,457.90	7,730.00	7,974.24	7,649.96	105.52	43.01	-88.85	-3,438.12	6,250.96	1,747.59	1,634.98	112.62	15.518 CC		
14,500.00	7,730.00	7,974.44	7,650.17	105.86	43.01	-88.86	-3,438.12	6,250.96	1,748.10	1,633.85	114.25	15.301 ES		
14,600.00	7,730.00	7,974.94	7,650.66	106.70	43.01	-88.87	-3,438.13	6,250.97	1,753.36	1,635.11	118.25	14.828		
14,700.00	7,730.00	7,975.43	7,651.15	107.57	43.02	-88.89	-3,438.13	6,250.98	1,764.28	1,641.92	122.36	14.418		
14,800.00	7,730.00	7,975.92	7,651.65	108.48	43.02	-88.91	-3,438.13	6,250.99	1,780.76	1,654.27	126.49	14.078		
14,900.00	7,730.00	7,976.41	7,652.14	109.43	43.02	-88.92	-3,438.14	6,251.00	1,802.64	1,672.08	130.56	13.807		
15,000.00	7,730.00	7,976.90	7,652.63	110.42	43.02	-88.94	-3,438.14	6,251.01	1,829.74	1,695.24	134.50	13.604		
15,100.00	7,730.00	7,977.39	7,653.12	111.43	43.02	-88.95	-3,438.14	6,251.02	1,861.81	1,723.56	138.25	13.467		
15,200.00	7,730.00	7,977.88	7,653.61	112.49	43.02	-88.97	-3,438.14	6,251.03	1,898.62	1,756.84	141.79	13.391		
15,300.00	7,730.00	7,978.37	7,654.10	113.57	43.02	-88.99	-3,438.15	6,251.04	1,939.89	1,794.81	145.08	13.371 SF		
15,400.00	7,730.00	7,978.86	7,654.59	114.68	43.02	-89.00	-3,438.15	6,251.05	1,985.35	1,837.23	148.11	13.404		
15,500.00	7,730.00	7,979.35	7,655.07	115.82	43.03	-89.02	-3,438.15	6,251.06	2,034.70	1,883.81	150.89	13.485		
15,600.00	7,730.00	7,979.84	7,655.56	116.99	43.03	-89.03	-3,438.16	6,251.07	2,087.68	1,934.28	153.41	13.609		
15,700.00	7,730.00	7,980.32	7,656.05	118.19	43.03	-89.05	-3,438.16	6,251.08	2,144.02	1,988.34	155.68	13.772		
15,800.00	7,730.00	7,980.81	7,656.54	119.41	43.03	-89.07	-3,438.16	6,251.09	2,203.46	2,045.74	157.72	13.971		
15,900.00	7,730.00	7,981.30	7,657.02	120.65	43.03	-89.08	-3,438.16	6,251.10	2,265.76	2,106.22	159.54	14.202		
16,000.00	7,730.00	7,981.78	7,657.51	121.91	43.03	-89.10	-3,438.17	6,251.11	2,330.68	2,169.52	161.16	14.462		
16,100.00	7,730.00	7,982.27	7,657.99	123.20	43.03	-89.11	-3,438.17	6,251.12	2,398.02	2,235.42	162.60	14.748		
16,200.00	7,730.00	7,982.75	7,658.48	124.50	43.03	-89.13	-3,438.17	6,251.13	2,467.57	2,303.70	163.87	15.058		
16,300.00	7,730.00	7,983.24	7,658.96	125.82	43.03	-89.15	-3,438.18	6,251.14	2,539.15	2,374.17	164.99	15.390		
16,400.00	7,730.00	7,983.72	7,659.45	127.16	43.04	-89.16	-3,438.18	6,251.15	2,612.61	2,446.63	165.97	15.741		
16,500.00	7,730.00	7,984.21	7,659.93	128.52	43.04	-89.18	-3,438.18	6,251.16	2,687.77	2,520.93	166.84	16.110		
16,600.00	7,730.00	7,984.69	7,660.41	129.89	43.04	-89.19	-3,438.18	6,251.17	2,764.51	2,596.92	167.59	16.495		
16,700.00	7,730.00	7,985.17	7,660.90	131.27	43.04	-89.21	-3,438.19	6,251.18	2,842.70	2,674.44	168.26	16.895		
16,800.00	7,730.00	7,985.66	7,661.38	132.67	43.04	-89.23	-3,438.19	6,251.19	2,922.21	2,753.38	168.83	17.308		
16,900.00	7,730.00	7,986.14	7,661.86	134.09	43.04	-89.24	-3,438.19	6,251.20	3,002.96	2,833.62	169.34	17.734		
17,000.00	7,730.00	7,986.62	7,662.34	135.51	43.04	-89.26	-3,438.19	6,251.21	3,084.82	2,915.05	169.77	18.170		
17,100.00	7,730.00	7,987.10	7,662.83	136.95	43.04	-89.27	-3,438.20	6,251.22	3,167.74	2,997.59	170.15	18.617		
17,200.00	7,730.00	7,987.58	7,663.31	138.40	43.05	-89.29	-3,438.20	6,251.23	3,251.61	3,081.13	170.48	19.074		
17,300.00	7,730.00	7,988.06	7,663.79	139.85	43.05	-89.30	-3,438.20	6,251.24	3,336.37	3,165.61	170.75	19.539		
17,400.00	7,730.00	7,988.54	7,664.27	141.32	43.05	-89.32	-3,438.21	6,251.25	3,421.95	3,250.96	170.99	20.012		
17,500.00	7,730.00	7,989.02	7,664.75	142.80	43.05	-89.34	-3,438.21	6,251.26	3,508.30	3,337.10	171.20	20.493		
17,600.00	7,730.00	7,989.50	7,665.22	144.28	43.05	-89.35	-3,438.21	6,251.27	3,595.35	3,423.99	171.37	20.980		
17,700.00	7,730.00	7,989.98	7,665.70	145.78	43.05	-89.37	-3,438.21	6,251.28	3,683.06	3,511.55	171.51	21.474		
17,800.00	7,730.00	7,990.46	7,666.18	147.28	43.05	-89.38	-3,438.22	6,251.29	3,771.39	3,599.76	171.63	21.974		
17,900.00	7,730.00	7,990.94	7,666.66	148.79	43.05	-89.40	-3,438.22	6,251.30	3,860.28	3,688.55	171.73	22.479		
18,000.00	7,730.00	7,991.41	7,667.14	150.31	43.06	-89.41	-3,438.22	6,251.31	3,949.70	3,777.90	171.80	22.989		
18,100.00	7,730.00	7,991.89	7,667.61	151.83	43.06	-89.43	-3,438.23	6,251.32	4,039.62	3,867.76	171.87	23.505		
18,200.00	7,730.00	7,992.37	7,668.09	153.37	43.06	-89.45	-3,438.23	6,251.33	4,130.01	3,958.10	171.91	24.024		
18,300.00	7,730.00	7,992.84	7,668.57	154.90	43.06	-89.46	-3,438.23	6,251.34	4,220.82	4,048.88	171.95	24.547		
18,400.00	7,730.00	7,993.32	7,669.04	156.45	43.06	-89.48	-3,438.23	6,251.36	4,312.05	4,140.08	171.97	25.075		
18,500.00	7,730.00	7,993.79	7,669.52	158.00	43.06	-89.49	-3,438.24	6,251.37	4,403.65	4,231.67	171.98	25.606		
18,600.00	7,730.00	7,994.27	7,669.99	159.55	43.06	-89.51	-3,438.24	6,251.38	4,495.61	4,323.63	171.98	26.140		
18,700.00	7,730.00	7,994.74	7,670.46	161.11	43.06	-89.52	-3,438.24	6,251.39	4,587.91	4,415.94	171.98	26.678		
18,800.00	7,730.00	7,995.22	7,670.94	162.68	43.06	-89.54	-3,438.24	6,251.40	4,680.53	4,508.56	171.96	27.218		
18,900.00	7,730.00	7,995.69	7,671.41	164.25	43.07	-89.55	-3,438.25	6,251.41	4,773.44	4,601.50	171.95	27.761		
19,000.00	7,730.00	7,996.16	7,671.88	165.83	43.07	-89.57	-3,438.25	6,251.42	4,866.63	4,694.71	171.92	28.307		
19,100.00	7,730.00	7,996.64	7,672.36	167.41	43.07	-89.59	-3,438.25	6,251.43	4,960.09	4,788.20	171.90	28.855		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 23-T1N-R68W - EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		91-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	7,730.00	7,997.11	7,672.83	168.99	43.07	-89.60	-3,438.26	6,251.44	5,053.80	4,881.94	171.86	29.406	
19,300.00	7,730.00	7,997.58	7,673.30	170.58	43.07	-89.62	-3,438.26	6,251.45	5,147.75	4,975.92	171.83	29.959	
19,400.00	7,730.00	7,998.05	7,673.77	172.17	43.07	-89.63	-3,438.26	6,251.46	5,241.92	5,070.13	171.79	30.513	
19,430.54	7,730.00	7,998.20	7,673.92	172.66	43.07	-89.64	-3,438.26	6,251.46	5,270.72	5,098.94	171.78	30.683	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	81.86	772.15	5,395.20	5,450.89					
100.00	100.00	12.00	12.00	0.13	0.09	81.86	772.15	5,395.20	5,450.18	5,449.95	0.23	N/A		
200.00	200.00	112.00	112.00	0.49	0.99	81.86	772.15	5,395.20	5,450.18	5,448.70	1.48	3,685.016		
300.00	300.00	212.00	212.00	0.85	2.73	81.86	772.15	5,395.20	5,450.18	5,446.59	3.58	1,521.201		
400.00	400.00	312.00	312.00	1.21	4.48	81.86	772.15	5,395.20	5,450.18	5,444.49	5.69	958.422		
500.00	500.00	412.00	412.00	1.57	6.22	81.86	772.15	5,395.20	5,450.18	5,442.39	7.79	699.601		
600.00	599.98	511.98	511.98	1.92	7.97	16.52	772.15	5,395.20	5,448.50	5,438.61	9.89	550.942		
700.00	699.84	611.84	611.84	2.28	9.71	16.56	772.15	5,395.20	5,443.49	5,431.50	11.99	454.141		
800.00	799.45	711.45	711.45	2.64	11.45	16.64	772.15	5,395.20	5,435.13	5,421.05	14.08	385.951		
900.00	898.70	810.70	810.70	3.02	13.18	16.74	772.15	5,395.20	5,423.45	5,407.28	16.18	335.292		
1,000.00	997.47	909.47	909.47	3.41	14.90	16.88	772.15	5,395.20	5,408.46	5,390.20	18.26	296.140		
1,100.00	1,095.62	1,007.62	1,007.62	3.84	16.62	17.04	772.15	5,395.20	5,390.18	5,369.84	20.34	264.944		
1,200.00	1,193.06	1,105.06	1,105.06	4.29	18.32	17.25	772.15	5,395.20	5,368.64	5,346.22	22.42	239.475		
1,300.00	1,289.64	1,201.64	1,201.64	4.78	20.00	17.48	772.15	5,395.20	5,343.87	5,319.38	24.48	218.265		
1,400.00	1,385.27	1,302.73	1,297.27	5.32	21.77	17.75	772.15	5,395.20	5,315.89	5,289.26	26.63	199.593		
1,500.00	1,479.82	1,408.18	1,391.82	5.90	23.61	18.06	772.15	5,395.20	5,284.75	5,255.89	28.87	183.066		
1,600.00	1,573.17	1,485.17	1,485.17	6.53	24.95	18.41	772.15	5,395.20	5,250.50	5,219.89	30.61	171.505		
1,700.00	1,665.21	1,577.21	1,577.21	7.23	26.56	18.80	772.15	5,395.20	5,213.18	5,180.55	32.63	159.751		
1,800.00	1,755.84	1,667.84	1,667.84	7.98	28.14	19.24	772.15	5,395.20	5,172.84	5,138.21	34.64	149.340		
1,900.00	1,844.94	1,756.94	1,756.94	8.80	29.70	19.73	772.15	5,395.20	5,129.55	5,092.92	36.63	140.044		
2,000.00	1,932.39	1,844.39	1,844.39	9.68	31.22	20.27	772.15	5,395.20	5,083.35	5,044.75	38.60	131.686		
2,100.00	2,018.11	1,930.11	1,930.11	10.63	32.72	20.86	772.15	5,395.20	5,034.32	4,993.76	40.56	124.122		
2,200.00	2,101.97	2,013.97	2,013.97	11.65	34.18	21.52	772.15	5,395.20	4,982.53	4,940.03	42.50	117.237		
2,300.00	2,183.88	2,104.12	2,095.88	12.74	35.76	22.25	772.15	5,395.20	4,928.04	4,883.48	44.57	110.580		
2,400.00	2,263.74	2,175.74	2,175.74	13.90	37.01	23.05	772.15	5,395.20	4,870.95	4,824.62	46.33	105.147		
2,431.61	2,288.54	2,200.54	2,200.54	14.29	37.44	23.32	772.15	5,395.20	4,852.37	4,805.45	46.93	103.405		
2,500.00	2,341.97	2,253.97	2,253.97	15.13	38.37	23.51	772.15	5,395.20	4,811.93	4,763.71	48.22	99.798		
2,600.00	2,420.08	2,332.08	2,332.08	16.37	39.73	23.80	772.15	5,395.20	4,752.86	4,702.74	50.12	94.837		
2,700.00	2,498.20	2,410.20	2,410.20	17.63	41.10	24.10	772.15	5,395.20	4,693.87	4,641.84	52.03	90.213		
2,800.00	2,576.32	2,488.32	2,488.32	18.89	42.46	24.40	772.15	5,395.20	4,634.98	4,581.02	53.96	85.895		
2,900.00	2,654.43	2,566.43	2,566.43	20.17	43.82	24.72	772.15	5,395.20	4,576.18	4,520.28	55.91	81.855		
3,000.00	2,732.55	2,644.55	2,644.55	21.45	45.19	25.03	772.15	5,395.20	4,517.48	4,459.62	57.86	78.070		
3,100.00	2,810.67	2,722.67	2,722.67	22.74	46.55	25.36	772.15	5,395.20	4,458.89	4,399.05	59.84	74.517		
3,200.00	2,888.78	2,800.78	2,800.78	24.03	47.91	25.70	772.15	5,395.20	4,400.39	4,338.57	61.82	71.176		
3,300.00	2,966.90	2,878.90	2,878.90	25.33	49.28	26.04	772.15	5,395.20	4,342.01	4,278.18	63.82	68.031		
3,400.00	3,045.02	2,957.02	2,957.02	26.63	50.64	26.39	772.15	5,395.20	4,283.74	4,217.90	65.84	65.064		
3,500.00	3,123.13	3,035.13	3,035.13	27.94	52.00	26.75	772.15	5,395.20	4,225.59	4,157.72	67.87	62.263		
3,600.00	3,201.25	3,113.25	3,113.25	29.24	53.37	27.12	772.15	5,395.20	4,167.56	4,097.65	69.91	59.614		
3,700.00	3,279.37	3,208.63	3,191.37	30.55	55.03	27.50	772.15	5,395.20	4,109.66	4,037.39	72.27	56.867		
3,800.00	3,357.49	3,269.49	3,269.49	31.86	56.09	27.89	772.15	5,395.20	4,051.90	3,977.86	74.04	54.727		
3,900.00	3,435.60	3,347.60	3,347.60	33.18	57.46	28.29	772.15	5,395.20	3,994.28	3,918.15	76.13	52.470		
4,000.00	3,513.72	3,425.72	3,425.72	34.49	58.82	28.70	772.15	5,395.20	3,936.80	3,858.57	78.23	50.325		
4,100.00	3,591.84	3,503.84	3,503.84	35.81	60.18	29.13	772.15	5,395.20	3,879.48	3,799.13	80.35	48.284		
4,200.00	3,669.95	3,581.95	3,581.95	37.12	61.55	29.56	772.15	5,395.20	3,822.31	3,739.83	82.48	46.340		
4,300.00	3,748.07	3,660.07	3,660.07	38.44	62.91	30.01	772.15	5,395.20	3,765.32	3,680.68	84.64	44.488		
4,400.00	3,826.19	3,738.19	3,738.19	39.76	64.28	30.46	772.15	5,395.20	3,708.50	3,621.69	86.81	42.720		
4,500.00	3,904.30	3,816.30	3,816.30	41.08	65.64	30.93	772.15	5,395.20	3,651.86	3,562.86	89.00	41.033		
4,600.00	3,982.42	3,905.58	3,894.42	42.40	67.20	31.42	772.15	5,395.20	3,595.42	3,504.01	91.40	39.335		
4,700.00	4,060.54	3,972.54	3,972.54	43.72	68.37	31.91	772.15	5,395.20	3,539.17	3,445.73	93.44	37.876		
4,800.00	4,138.66	4,050.66	4,050.66	45.05	69.73	32.43	772.15	5,395.20	3,483.14	3,387.45	95.69	36.399		
4,900.00	4,216.77	4,128.77	4,128.77	46.37	71.09	32.95	772.15	5,395.20	3,427.33	3,329.36	97.97	34.985		
5,000.00	4,294.89	4,206.89	4,206.89	47.69	72.46	33.49	772.15	5,395.20	3,371.75	3,271.48	100.26	33.629		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,285.01	4,285.01	49.02	73.82	34.05	772.15	5,395.20	3,316.41	3,213.82	102.59	32.328		
5,200.00	4,451.12	4,363.12	4,363.12	50.34	75.18	34.63	772.15	5,395.20	3,261.33	3,156.40	104.93	31.080		
5,300.00	4,529.24	4,441.24	4,441.24	51.67	76.55	35.22	772.15	5,395.20	3,206.52	3,099.21	107.31	29.881		
5,400.00	4,607.36	4,519.36	4,519.36	52.99	77.91	35.83	772.15	5,395.20	3,151.99	3,042.28	109.71	28.730		
5,500.00	4,685.47	4,602.53	4,597.47	54.32	79.36	36.45	772.15	5,395.20	3,097.76	2,985.53	112.23	27.602		
5,600.00	4,763.59	4,675.59	4,675.59	55.64	80.64	37.10	772.15	5,395.20	3,043.85	2,929.25	114.60	26.560		
5,700.00	4,841.71	4,753.71	4,753.71	56.97	82.00	37.77	772.15	5,395.20	2,990.27	2,873.17	117.10	25.537		
5,800.00	4,919.83	4,831.83	4,831.83	58.30	83.36	38.46	772.15	5,395.20	2,937.03	2,817.41	119.62	24.553		
5,900.00	4,997.94	4,909.94	4,909.94	59.62	84.73	39.16	772.15	5,395.20	2,884.17	2,761.98	122.18	23.605		
6,000.00	5,076.06	4,988.06	4,988.06	60.95	86.09	39.90	772.15	5,395.20	2,831.69	2,706.91	124.78	22.693		
6,100.00	5,154.18	5,066.18	5,066.18	62.28	87.45	40.65	772.15	5,395.20	2,779.63	2,652.21	127.42	21.815		
6,200.00	5,232.29	5,144.29	5,144.29	63.61	88.82	41.43	772.15	5,395.20	2,728.00	2,597.91	130.09	20.970		
6,300.00	5,310.41	5,222.41	5,222.41	64.93	90.18	42.23	772.15	5,395.20	2,676.84	2,544.03	132.81	20.156		
6,400.00	5,388.53	5,300.53	5,300.53	66.26	91.54	43.06	772.15	5,395.20	2,626.16	2,490.59	135.57	19.372		
6,500.00	5,466.64	5,378.64	5,378.64	67.59	92.91	43.91	772.15	5,395.20	2,575.99	2,437.62	138.37	18.617		
6,600.00	5,544.76	5,456.76	5,456.76	68.92	94.27	44.79	772.15	5,395.20	2,526.37	2,385.16	141.22	17.890		
6,700.00	5,622.88	5,534.88	5,534.88	70.25	95.63	45.70	772.15	5,395.20	2,477.34	2,333.22	144.11	17.190		
6,800.00	5,701.00	5,613.00	5,613.00	71.58	97.00	46.64	772.15	5,395.20	2,428.91	2,281.86	147.06	16.517		
6,900.00	5,779.11	5,708.89	5,691.11	72.91	98.67	47.61	772.15	5,395.20	2,381.14	2,230.78	150.36	15.836		
7,000.00	5,857.23	5,769.23	5,769.23	74.23	99.72	48.61	772.15	5,395.20	2,334.06	2,180.96	153.10	15.245		
7,100.00	5,935.35	5,847.35	5,847.35	75.56	101.09	49.65	772.15	5,395.20	2,287.72	2,131.52	156.20	14.646		
7,200.00	6,013.46	5,925.46	5,925.46	76.89	102.45	50.71	772.15	5,395.20	2,242.16	2,082.80	159.36	14.070		
7,300.00	6,091.58	6,003.58	6,003.58	78.22	103.81	51.81	772.15	5,395.20	2,197.43	2,034.86	162.57	13.517		
7,400.00	6,169.70	6,081.70	6,081.70	79.55	105.18	52.94	772.15	5,395.20	2,153.57	1,987.74	165.83	12.987		
7,500.00	6,247.81	6,159.81	6,159.81	80.88	106.54	54.11	772.15	5,395.20	2,110.66	1,941.51	169.15	12.478		
7,600.00	6,325.93	6,237.93	6,237.93	82.21	107.90	55.31	772.15	5,395.20	2,068.73	1,896.21	172.52	11.991		
7,700.00	6,404.05	6,316.05	6,316.05	83.54	109.27	56.55	772.15	5,395.20	2,027.87	1,851.91	175.95	11.525		
7,800.00	6,482.17	6,405.83	6,394.17	84.87	110.83	57.82	772.15	5,395.20	1,988.12	1,808.48	179.64	11.067		
7,900.00	6,560.28	6,472.28	6,472.28	86.20	111.99	59.13	772.15	5,395.20	1,949.57	1,766.60	182.96	10.655		
8,000.00	6,638.40	6,550.40	6,550.40	87.53	113.36	60.48	772.15	5,395.20	1,912.27	1,725.73	186.54	10.251		
8,100.00	6,716.52	6,628.52	6,628.52	88.86	114.72	61.87	772.15	5,395.20	1,876.31	1,686.15	190.16	9.867		
8,200.00	6,794.63	6,706.63	6,706.63	90.20	116.08	63.29	772.15	5,395.20	1,841.77	1,647.95	193.82	9.502		
8,300.00	6,872.75	6,784.75	6,784.75	91.53	117.45	64.75	772.15	5,395.20	1,808.72	1,611.21	197.51	9.158		
8,400.00	6,950.87	6,862.87	6,862.87	92.86	118.81	66.24	772.15	5,395.20	1,777.25	1,576.02	201.23	8.832		
8,500.00	7,028.98	6,940.98	6,940.98	94.19	120.17	67.77	772.15	5,395.20	1,747.45	1,542.49	204.96	8.526		
8,600.00	7,107.10	7,019.10	7,019.10	95.52	121.54	69.33	772.15	5,395.20	1,719.39	1,510.69	208.70	8.239		
8,647.91	7,144.53	7,056.53	7,056.53	96.16	122.19	70.09	772.15	5,395.20	1,706.60	1,496.11	210.49	8.108		
8,650.00	7,146.16	7,058.16	7,058.16	96.18	122.22	69.84	772.15	5,395.20	1,706.05	1,495.48	210.57	8.102		
8,700.00	7,185.66	7,102.34	7,097.66	96.84	122.99	63.47	772.15	5,395.20	1,691.42	1,478.95	212.47	7.961		
8,750.00	7,225.78	7,137.78	7,137.78	97.47	123.61	56.41	772.15	5,395.20	1,674.01	1,459.90	214.11	7.819		
8,800.00	7,266.21	7,178.21	7,178.21	98.08	124.31	48.83	772.15	5,395.20	1,653.83	1,438.11	215.72	7.667		
8,850.00	7,306.63	7,218.63	7,218.63	98.64	125.02	40.92	772.15	5,395.20	1,630.94	1,413.73	217.22	7.508		
8,900.00	7,346.75	7,258.75	7,258.75	99.17	125.72	32.88	772.15	5,395.20	1,605.40	1,386.82	218.58	7.345		
8,950.00	7,386.25	7,301.75	7,298.25	99.64	126.47	24.82	772.15	5,395.20	1,577.32	1,357.44	219.87	7.174		
9,000.00	7,424.84	7,336.84	7,336.84	100.06	127.08	16.82	772.15	5,395.20	1,546.83	1,325.94	220.89	7.003		
9,050.00	7,462.22	7,374.22	7,374.22	100.42	127.74	8.82	772.15	5,395.20	1,514.12	1,292.30	221.82	6.826		
9,100.00	7,498.11	7,410.11	7,410.11	100.74	128.36	0.73	772.15	5,395.20	1,479.39	1,256.81	222.58	6.647		
9,150.00	7,532.24	7,444.24	7,444.24	100.99	128.96	-7.58	772.15	5,395.20	1,442.90	1,219.74	223.16	6.466		
9,200.00	7,564.34	7,476.34	7,476.34	101.19	129.52	-16.26	772.15	5,395.20	1,404.93	1,181.38	223.55	6.285		
9,250.00	7,594.17	7,506.17	7,506.17	101.34	130.04	-25.36	772.15	5,395.20	1,365.82	1,142.07	223.74	6.104		
9,300.00	7,621.50	7,533.50	7,533.50	101.45	130.52	-34.84	772.15	5,395.20	1,325.92	1,102.21	223.72	5.927		
9,350.00	7,646.13	7,558.13	7,558.13	101.50	130.95	-44.48	772.15	5,395.20	1,285.67	1,062.21	223.45	5.754		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,579.87	7,579.87	101.51	131.33	-53.92	772.15	5,395.20	1,245.49	1,022.56	222.94	5.587		
9,450.00	7,686.55	7,601.45	7,598.55	101.48	131.70	-62.75	772.15	5,395.20	1,205.90	983.70	222.19	5.427		
9,500.00	7,702.04	7,614.04	7,614.04	101.42	131.92	-70.61	772.15	5,395.20	1,167.40	946.34	221.06	5.281		
9,550.00	7,714.20	7,626.20	7,626.20	101.33	132.13	-77.29	772.15	5,395.20	1,130.56	910.90	219.66	5.147		
9,600.00	7,722.96	7,634.96	7,634.96	101.20	132.29	-82.72	772.15	5,395.20	1,095.94	878.02	217.93	5.029		
9,650.00	7,728.24	7,640.24	7,640.24	101.06	132.38	-86.93	772.15	5,395.20	1,064.13	848.28	215.85	4.930		
9,699.97	7,730.00	7,642.00	7,642.00	100.90	132.41	-90.00	772.15	5,395.20	1,035.70	822.27	213.43	4.853		
9,800.00	7,730.00	7,642.00	7,642.00	100.56	132.41	-90.00	772.15	5,395.20	986.17	778.32	207.86	4.745		
9,900.00	7,730.00	7,642.00	7,642.00	100.24	132.41	-90.00	772.15	5,395.20	944.68	743.17	201.51	4.688 SF		
10,000.00	7,730.00	7,642.00	7,642.00	99.93	132.41	-90.00	772.15	5,395.20	912.31	717.72	194.59	4.688		
10,100.00	7,730.00	7,642.00	7,642.00	99.64	132.41	-90.00	772.15	5,395.20	890.06	702.54	187.52	4.746		
10,200.00	7,730.00	7,642.00	7,642.00	99.36	132.41	-90.00	772.15	5,395.20	878.69	697.65	181.04	4.854 ES		
10,250.56	7,730.00	7,642.00	7,642.00	99.22	132.41	-90.00	772.15	5,395.20	877.23	698.93	178.30	4.920 CC		
10,300.00	7,730.00	7,642.00	7,642.00	99.09	132.41	-90.00	772.15	5,395.20	878.62	702.48	176.14	4.988		
10,400.00	7,730.00	7,642.00	7,642.00	98.84	132.41	-90.00	772.15	5,395.20	889.87	716.05	173.82	5.119		
10,500.00	7,730.00	7,642.00	7,642.00	98.61	132.41	-90.00	772.15	5,395.20	912.01	737.54	174.46	5.227		
10,600.00	7,730.00	7,642.00	7,642.00	98.39	132.41	-90.00	772.15	5,395.20	944.27	766.74	177.53	5.319		
10,700.00	7,730.00	7,642.00	7,642.00	98.18	132.41	-90.00	772.15	5,395.20	985.67	803.65	182.01	5.415		
10,800.00	7,730.00	7,642.00	7,642.00	97.99	132.41	-90.00	772.15	5,395.20	1,035.10	848.06	187.03	5.534		
10,900.00	7,730.00	7,642.00	7,642.00	97.81	132.41	-90.00	772.15	5,395.20	1,091.47	899.44	192.03	5.684		
11,000.00	7,730.00	7,642.00	7,642.00	97.64	132.41	-90.00	772.15	5,395.20	1,153.78	957.07	196.71	5.865		
11,100.00	7,730.00	7,642.00	7,642.00	97.50	132.41	-90.00	772.15	5,395.20	1,221.10	1,020.16	200.94	6.077		
11,200.00	7,730.00	7,642.00	7,642.00	97.36	132.41	-90.00	772.15	5,395.20	1,292.66	1,087.95	204.71	6.315		
11,300.00	7,730.00	7,642.00	7,642.00	97.24	132.41	-90.00	772.15	5,395.20	1,367.80	1,159.77	208.03	6.575		
11,400.00	7,730.00	7,642.00	7,642.00	97.14	132.41	-90.00	772.15	5,395.20	1,445.95	1,235.01	210.93	6.855		
11,500.00	7,730.00	7,642.00	7,642.00	97.06	132.41	-90.00	772.15	5,395.20	1,526.65	1,313.17	213.48	7.151		
11,600.00	7,730.00	7,642.00	7,642.00	96.98	132.41	-90.00	772.15	5,395.20	1,609.51	1,393.81	215.70	7.462		
11,700.00	7,730.00	7,642.00	7,642.00	96.93	132.41	-90.00	772.15	5,395.20	1,694.23	1,476.57	217.66	7.784		
11,800.00	7,730.00	7,642.00	7,642.00	96.90	132.41	-90.00	772.15	5,395.20	1,780.54	1,561.16	219.38	8.116		
11,900.00	7,730.00	7,642.00	7,642.00	96.88	132.41	-90.00	772.15	5,395.20	1,868.21	1,647.31	220.90	8.457		
12,000.00	7,730.00	7,642.00	7,642.00	96.88	132.41	-90.00	772.15	5,395.20	1,957.06	1,734.81	222.25	8.806		
12,100.00	7,730.00	7,642.00	7,642.00	96.90	132.41	-90.00	772.15	5,395.20	2,046.94	1,823.49	223.45	9.161		
12,200.00	7,730.00	7,642.00	7,642.00	96.94	132.41	-90.00	772.15	5,395.20	2,137.73	1,913.20	224.52	9.521		
12,300.00	7,730.00	7,642.00	7,642.00	97.00	132.41	-90.00	772.15	5,395.20	2,229.30	2,003.81	225.49	9.887		
12,400.00	7,730.00	7,642.00	7,642.00	97.08	132.41	-90.00	772.15	5,395.20	2,321.56	2,095.21	226.35	10.256		
12,500.00	7,730.00	7,642.00	7,642.00	97.18	132.41	-90.00	772.15	5,395.20	2,414.44	2,187.31	227.13	10.630		
12,600.00	7,730.00	7,642.00	7,642.00	97.31	132.41	-90.00	772.15	5,395.20	2,507.87	2,280.03	227.84	11.007		
12,700.00	7,730.00	7,642.00	7,642.00	97.46	132.41	-90.00	772.15	5,395.20	2,601.79	2,373.30	228.49	11.387		
12,800.00	7,730.00	7,642.00	7,642.00	97.64	132.41	-90.00	772.15	5,395.20	2,696.15	2,467.07	229.08	11.770		
12,900.00	7,730.00	7,642.00	7,642.00	97.85	132.41	-90.00	772.15	5,395.20	2,790.89	2,561.28	229.62	12.155		
13,000.00	7,730.00	7,642.00	7,642.00	98.09	132.41	-90.00	772.15	5,395.20	2,886.00	2,655.88	230.11	12.542		
13,100.00	7,730.00	7,642.00	7,642.00	98.35	132.41	-90.00	772.15	5,395.20	2,981.42	2,750.85	230.57	12.931		
13,200.00	7,730.00	7,642.00	7,642.00	98.65	132.41	-90.00	772.15	5,395.20	3,077.13	2,846.15	230.99	13.322		
13,300.00	7,730.00	7,642.00	7,642.00	98.98	132.41	-90.00	772.15	5,395.20	3,173.11	2,941.73	231.38	13.714		
13,400.00	7,730.00	7,642.00	7,642.00	99.34	132.41	-90.00	772.15	5,395.20	3,269.33	3,037.59	231.74	14.108		
13,500.00	7,730.00	7,642.00	7,642.00	99.74	132.41	-90.00	772.15	5,395.20	3,365.77	3,133.70	232.08	14.503		
13,600.00	7,730.00	7,642.00	7,642.00	100.17	132.41	-90.00	772.15	5,395.20	3,462.41	3,230.02	232.39	14.899		
13,700.00	7,730.00	7,642.00	7,642.00	100.65	132.41	-90.00	772.15	5,395.20	3,559.24	3,326.56	232.68	15.296		
13,800.00	7,730.00	7,642.00	7,642.00	101.16	132.41	-90.00	772.15	5,395.20	3,656.24	3,423.28	232.96	15.695		
13,900.00	7,730.00	7,642.00	7,642.00	101.71	132.41	-90.00	772.15	5,395.20	3,753.40	3,520.18	233.22	16.094		
14,000.00	7,730.00	7,642.00	7,642.00	102.30	132.41	-90.00	772.15	5,395.20	3,850.70	3,617.24	233.46	16.494		
14,100.00	7,730.00	7,642.00	7,642.00	102.93	132.41	-90.00	772.15	5,395.20	3,948.13	3,714.45	233.69	16.895		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,642.00	7,642.00	103.60	132.41	-90.00	772.15	5,395.20	4,045.70	3,811.79	233.90	17.297		
14,300.00	7,730.00	7,642.00	7,642.00	104.32	132.41	-90.00	772.15	5,395.20	4,143.37	3,909.27	234.10	17.699		
14,400.00	7,730.00	7,642.00	7,642.00	105.07	132.41	-90.00	772.15	5,395.20	4,241.16	4,006.86	234.30	18.102		
14,500.00	7,730.00	7,642.00	7,642.00	105.86	132.41	-90.00	772.15	5,395.20	4,339.05	4,104.57	234.48	18.505		
14,600.00	7,730.00	7,642.00	7,642.00	106.70	132.41	-90.00	772.15	5,395.20	4,437.03	4,202.37	234.65	18.909		
14,700.00	7,730.00	7,642.00	7,642.00	107.57	132.41	-90.00	772.15	5,395.20	4,535.10	4,300.28	234.82	19.313		
14,800.00	7,730.00	7,642.00	7,642.00	108.48	132.41	-90.00	772.15	5,395.20	4,633.25	4,398.27	234.97	19.718		
14,900.00	7,730.00	7,642.00	7,642.00	109.43	132.41	-90.00	772.15	5,395.20	4,731.48	4,496.35	235.12	20.123		
15,000.00	7,730.00	7,642.00	7,642.00	110.42	132.41	-90.00	772.15	5,395.20	4,829.78	4,594.51	235.27	20.529		
15,100.00	7,730.00	7,642.00	7,642.00	111.43	132.41	-90.00	772.15	5,395.20	4,928.15	4,692.75	235.40	20.935		
15,200.00	7,730.00	7,642.00	7,642.00	112.49	132.41	-90.00	772.15	5,395.20	5,026.58	4,791.05	235.53	21.341		
15,300.00	7,730.00	7,642.00	7,642.00	113.57	132.41	-90.00	772.15	5,395.20	5,125.08	4,889.42	235.66	21.748		
15,400.00	7,730.00	7,642.00	7,642.00	114.68	132.41	-90.00	772.15	5,395.20	5,223.63	4,987.85	235.78	22.155		
15,500.00	7,730.00	7,642.00	7,642.00	115.82	132.41	-90.00	772.15	5,395.20	5,322.24	5,086.34	235.90	22.562		
15,600.00	7,730.00	7,642.00	7,642.00	116.99	132.41	-90.00	772.15	5,395.20	5,420.89	5,184.89	236.01	22.969		
15,700.00	7,730.00	7,642.00	7,642.00	118.19	132.41	-90.00	772.15	5,395.20	5,519.60	5,283.49	236.11	23.377		
15,800.00	7,730.00	7,642.00	7,642.00	119.41	132.41	-90.00	772.15	5,395.20	5,618.35	5,382.13	236.22	23.785		
15,900.00	7,730.00	7,642.00	7,642.00	120.65	132.41	-90.00	772.15	5,395.20	5,717.15	5,480.83	236.32	24.193		
16,000.00	7,730.00	7,642.00	7,642.00	121.91	132.41	-90.00	772.15	5,395.20	5,815.98	5,579.57	236.42	24.601		
16,100.00	7,730.00	7,642.00	7,642.00	123.20	132.41	-90.00	772.15	5,395.20	5,914.86	5,678.35	236.51	25.009		
16,200.00	7,730.00	7,642.00	7,642.00	124.50	132.41	-90.00	772.15	5,395.20	6,013.77	5,777.17	236.60	25.418		
16,300.00	7,730.00	7,642.00	7,642.00	125.82	132.41	-90.00	772.15	5,395.20	6,112.72	5,876.03	236.69	25.826		
16,400.00	7,730.00	7,642.00	7,642.00	127.16	132.41	-90.00	772.15	5,395.20	6,211.70	5,974.93	236.77	26.235		
16,500.00	7,730.00	7,642.00	7,642.00	128.52	132.41	-90.00	772.15	5,395.20	6,310.71	6,073.86	236.86	26.644		
16,600.00	7,730.00	7,642.00	7,642.00	129.89	132.41	-90.00	772.15	5,395.20	6,409.76	6,172.82	236.94	27.053		
16,700.00	7,730.00	7,642.00	7,642.00	131.27	132.41	-90.00	772.15	5,395.20	6,508.83	6,271.82	237.01	27.462		
16,800.00	7,730.00	7,642.00	7,642.00	132.67	132.41	-90.00	772.15	5,395.20	6,607.93	6,370.84	237.09	27.871		
16,900.00	7,730.00	7,642.00	7,642.00	134.09	132.41	-90.00	772.15	5,395.20	6,707.06	6,469.90	237.16	28.280		
17,000.00	7,730.00	7,642.00	7,642.00	135.51	132.41	-90.00	772.15	5,395.20	6,806.21	6,568.98	237.24	28.690		
17,100.00	7,730.00	7,642.00	7,642.00	136.95	132.41	-90.00	772.15	5,395.20	6,905.39	6,668.08	237.31	29.099		
17,200.00	7,730.00	7,642.00	7,642.00	138.40	132.41	-90.00	772.15	5,395.20	7,004.59	6,767.22	237.38	29.508		
17,300.00	7,730.00	7,642.00	7,642.00	139.85	132.41	-90.00	772.15	5,395.20	7,103.82	6,866.37	237.44	29.918		
17,400.00	7,730.00	7,642.00	7,642.00	141.32	132.41	-90.00	772.15	5,395.20	7,203.06	6,965.55	237.51	30.327		
17,500.00	7,730.00	7,642.00	7,642.00	142.80	132.41	-90.00	772.15	5,395.20	7,302.33	7,064.75	237.58	30.737		
17,600.00	7,730.00	7,642.00	7,642.00	144.28	132.41	-90.00	772.15	5,395.20	7,401.61	7,163.97	237.64	31.146		
17,700.00	7,730.00	7,642.00	7,642.00	145.78	132.41	-90.00	772.15	5,395.20	7,500.92	7,263.22	237.70	31.556		
17,800.00	7,730.00	7,642.00	7,642.00	147.28	132.41	-90.00	772.15	5,395.20	7,600.24	7,362.48	237.76	31.966		
17,900.00	7,730.00	7,642.00	7,642.00	148.79	132.41	-90.00	772.15	5,395.20	7,699.58	7,461.76	237.82	32.375		
18,000.00	7,730.00	7,642.00	7,642.00	150.31	132.41	-90.00	772.15	5,395.20	7,798.94	7,561.06	237.88	32.785		
18,100.00	7,730.00	7,642.00	7,642.00	151.83	132.41	-90.00	772.15	5,395.20	7,898.31	7,660.37	237.94	33.195		
18,200.00	7,730.00	7,642.00	7,642.00	153.37	132.41	-90.00	772.15	5,395.20	7,997.70	7,759.70	238.00	33.604		
18,300.00	7,730.00	7,642.00	7,642.00	154.90	132.41	-90.00	772.15	5,395.20	8,097.10	7,859.05	238.05	34.014		
18,400.00	7,730.00	7,642.00	7,642.00	156.45	132.41	-90.00	772.15	5,395.20	8,196.52	7,958.41	238.11	34.424		
18,500.00	7,730.00	7,642.00	7,642.00	158.00	132.41	-90.00	772.15	5,395.20	8,295.96	8,057.79	238.16	34.833		
18,600.00	7,730.00	7,642.00	7,642.00	159.55	132.41	-90.00	772.15	5,395.20	8,395.40	8,157.19	238.22	35.243		
18,700.00	7,730.00	7,642.00	7,642.00	161.11	132.41	-90.00	772.15	5,395.20	8,494.86	8,256.59	238.27	35.652		
18,800.00	7,730.00	7,642.00	7,642.00	162.68	132.41	-90.00	772.15	5,395.20	8,594.33	8,356.01	238.32	36.062		
18,900.00	7,730.00	7,642.00	7,642.00	164.25	132.41	-90.00	772.15	5,395.20	8,693.82	8,455.44	238.37	36.471		
19,000.00	7,730.00	7,642.00	7,642.00	165.83	132.41	-90.00	772.15	5,395.20	8,793.31	8,554.89	238.42	36.881		
19,100.00	7,730.00	7,642.00	7,642.00	167.41	132.41	-90.00	772.15	5,395.20	8,892.82	8,654.34	238.48	37.290		
19,200.00	7,730.00	7,642.00	7,642.00	168.99	132.41	-90.00	772.15	5,395.20	8,992.34	8,753.81	238.53	37.700		
19,300.00	7,730.00	7,642.00	7,642.00	170.58	132.41	-90.00	772.15	5,395.20	9,091.86	8,853.29	238.57	38.109		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,642.00	7,642.00	172.17	132.41	-90.00	772.15	5,395.20	9,191.40	8,952.78	238.62	38.518	
19,430.54	7,730.00	7,642.00	7,642.00	172.66	132.41	-90.00	772.15	5,395.20	9,221.80	8,983.16	238.64	38.643	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	116.02	-1,438.76	2,946.92	3,279.88					
100.00	100.00	43.00	43.00	0.13	0.33	116.02	-1,438.76	2,946.92	3,279.39	3,278.92	0.46	7,057.851		
200.00	200.00	143.00	143.00	0.49	1.52	116.02	-1,438.76	2,946.92	3,279.39	3,277.37	2.01	1,630.452		
300.00	300.00	243.00	243.00	0.85	3.26	116.02	-1,438.76	2,946.92	3,279.39	3,275.27	4.12	796.908		
400.00	400.00	343.00	343.00	1.21	5.01	116.02	-1,438.76	2,946.92	3,279.39	3,273.17	6.22	527.323		
500.00	500.00	443.00	443.00	1.57	6.75	116.02	-1,438.76	2,946.92	3,279.39	3,271.06	8.32	394.027		
600.00	599.98	542.98	542.98	1.92	8.50	50.71	-1,438.76	2,946.92	3,278.28	3,267.86	10.42	314.568		
700.00	699.84	642.84	642.84	2.28	10.24	50.83	-1,438.76	2,946.92	3,274.97	3,262.45	12.52	261.626		
800.00	799.45	742.45	742.45	2.64	11.98	51.04	-1,438.76	2,946.92	3,269.46	3,254.85	14.62	223.693		
900.00	898.70	841.70	841.70	3.02	13.71	51.32	-1,438.76	2,946.92	3,261.79	3,245.07	16.72	195.125		
1,000.00	997.47	940.47	940.47	3.41	15.44	51.69	-1,438.76	2,946.92	3,251.98	3,233.16	18.82	172.785		
1,100.00	1,095.62	1,038.62	1,038.62	3.84	17.15	52.14	-1,438.76	2,946.92	3,240.07	3,219.14	20.93	154.793		
1,200.00	1,193.06	1,136.06	1,136.06	4.29	18.85	52.68	-1,438.76	2,946.92	3,226.13	3,203.08	23.05	139.957		
1,300.00	1,289.64	1,232.64	1,232.64	4.78	20.54	53.29	-1,438.76	2,946.92	3,210.20	3,185.02	25.18	127.483		
1,400.00	1,385.27	1,328.27	1,328.27	5.32	22.21	54.00	-1,438.76	2,946.92	3,192.37	3,165.04	27.33	116.824		
1,500.00	1,479.82	1,422.82	1,422.82	5.90	23.86	54.78	-1,438.76	2,946.92	3,172.71	3,143.22	29.49	107.591		
1,600.00	1,573.17	1,516.17	1,516.17	6.53	25.48	55.65	-1,438.76	2,946.92	3,151.32	3,119.64	31.67	99.501		
1,700.00	1,665.21	1,608.21	1,608.21	7.23	27.09	56.60	-1,438.76	2,946.92	3,128.29	3,094.41	33.88	92.340		
1,800.00	1,755.84	1,701.16	1,698.84	7.98	28.71	57.64	-1,438.76	2,946.92	3,103.75	3,067.60	36.15	85.852		
1,900.00	1,844.94	1,787.94	1,787.94	8.80	30.23	58.76	-1,438.76	2,946.92	3,077.82	3,039.44	38.38	80.200		
2,000.00	1,932.39	1,875.39	1,875.39	9.68	31.75	59.95	-1,438.76	2,946.92	3,050.62	3,009.95	40.68	75.000		
2,100.00	2,018.11	1,961.11	1,961.11	10.63	33.25	61.22	-1,438.76	2,946.92	3,022.32	2,979.31	43.01	70.269		
2,200.00	2,101.97	2,044.97	2,044.97	11.65	34.71	62.56	-1,438.76	2,946.92	2,993.06	2,947.67	45.39	65.946		
2,300.00	2,183.88	2,126.88	2,126.88	12.74	36.14	63.97	-1,438.76	2,946.92	2,963.02	2,915.21	47.81	61.981		
2,400.00	2,263.74	2,206.74	2,206.74	13.90	37.54	65.44	-1,438.76	2,946.92	2,932.37	2,882.10	50.27	58.332		
2,431.61	2,288.54	2,231.54	2,231.54	14.29	37.97	65.92	-1,438.76	2,946.92	2,922.59	2,871.53	51.06	57.240		
2,500.00	2,341.97	2,284.97	2,284.97	15.13	38.90	66.55	-1,438.76	2,946.92	2,901.62	2,848.84	52.78	54.977		
2,600.00	2,420.08	2,363.08	2,363.08	16.37	40.27	67.48	-1,438.76	2,946.92	2,871.83	2,816.50	55.33	51.907		
2,700.00	2,498.20	2,441.20	2,441.20	17.63	41.63	68.43	-1,438.76	2,946.92	2,843.10	2,785.19	57.91	49.097		
2,800.00	2,576.32	2,519.32	2,519.32	18.89	42.99	69.39	-1,438.76	2,946.92	2,815.45	2,754.93	60.52	46.521		
2,900.00	2,654.43	2,602.57	2,597.43	20.17	44.45	70.36	-1,438.76	2,946.92	2,788.94	2,725.69	63.25	44.094		
3,000.00	2,732.55	2,675.55	2,675.55	21.45	45.72	71.34	-1,438.76	2,946.92	2,763.57	2,697.75	65.82	41.984		
3,100.00	2,810.67	2,753.67	2,753.67	22.74	47.08	72.34	-1,438.76	2,946.92	2,739.40	2,670.89	68.51	39.984		
3,200.00	2,888.78	2,831.78	2,831.78	24.03	48.45	73.34	-1,438.76	2,946.92	2,716.45	2,645.23	71.22	38.142		
3,300.00	2,966.90	2,909.90	2,909.90	25.33	49.81	74.36	-1,438.76	2,946.92	2,694.75	2,620.80	73.95	36.442		
3,400.00	3,045.02	2,988.02	2,988.02	26.63	51.17	75.38	-1,438.76	2,946.92	2,674.32	2,597.64	76.69	34.873		
3,500.00	3,123.13	3,066.13	3,066.13	27.94	52.54	76.42	-1,438.76	2,946.92	2,655.22	2,575.77	79.44	33.423		
3,600.00	3,201.25	3,144.25	3,144.25	29.24	53.90	77.46	-1,438.76	2,946.92	2,637.45	2,555.24	82.21	32.083		
3,700.00	3,279.37	3,222.37	3,222.37	30.55	55.26	78.52	-1,438.76	2,946.92	2,621.04	2,536.06	84.98	30.843		
3,800.00	3,357.49	3,300.49	3,300.49	31.86	56.63	79.58	-1,438.76	2,946.92	2,606.03	2,518.27	87.76	29.695		
3,900.00	3,435.60	3,378.60	3,378.60	33.18	57.99	80.65	-1,438.76	2,946.92	2,592.44	2,501.90	90.54	28.632		
4,000.00	3,513.72	3,456.72	3,456.72	34.49	59.35	81.73	-1,438.76	2,946.92	2,580.29	2,486.96	93.33	27.648		
4,100.00	3,591.84	3,534.84	3,534.84	35.81	60.72	82.81	-1,438.76	2,946.92	2,569.59	2,473.48	96.11	26.736		
4,200.00	3,669.95	3,612.95	3,612.95	37.12	62.08	83.89	-1,438.76	2,946.92	2,560.38	2,461.49	98.89	25.892		
4,300.00	3,748.07	3,708.93	3,691.07	38.44	63.76	84.98	-1,438.76	2,946.92	2,552.66	2,450.69	101.97	25.034		
4,400.00	3,826.19	3,769.19	3,769.19	39.76	64.81	86.08	-1,438.76	2,946.92	2,546.44	2,442.02	104.42	24.387		
4,500.00	3,904.30	3,847.30	3,847.30	41.08	66.17	87.18	-1,438.76	2,946.92	2,541.75	2,434.58	107.16	23.718		
4,600.00	3,982.42	3,925.42	3,925.42	42.40	67.53	88.28	-1,438.76	2,946.92	2,538.58	2,428.68	109.90	23.100		
4,700.00	4,060.54	4,003.54	4,003.54	43.72	68.90	89.38	-1,438.76	2,946.92	2,536.94	2,424.33	112.61	22.528		
4,756.46	4,104.64	4,047.64	4,047.64	44.47	69.67	90.00	-1,438.76	2,946.92	2,536.70	2,422.56	114.14	22.225		
4,800.00	4,138.66	4,081.66	4,081.66	45.05	70.26	90.48	-1,438.76	2,946.92	2,536.84	2,421.54	115.31	22.001		
4,900.00	4,216.77	4,159.77	4,159.77	46.37	71.62	91.58	-1,438.76	2,946.92	2,538.28	2,420.30	117.98	21.515		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,237.89	4,237.89	47.69	72.99	92.68	-1,438.76	2,946.92	2,541.25	2,420.62	120.63	21.067		
5,100.00	4,373.01	4,316.01	4,316.01	49.02	74.35	93.78	-1,438.76	2,946.92	2,545.75	2,422.50	123.25	20.655		
5,200.00	4,451.12	4,405.88	4,394.12	50.34	75.92	94.87	-1,438.76	2,946.92	2,551.77	2,425.72	126.05	20.244		
5,300.00	4,529.24	4,472.24	4,472.24	51.67	77.08	95.97	-1,438.76	2,946.92	2,559.30	2,430.89	128.41	19.931		
5,400.00	4,607.36	4,550.36	4,550.36	52.99	78.44	97.05	-1,438.76	2,946.92	2,568.32	2,437.37	130.94	19.614		
5,500.00	4,685.47	4,628.47	4,628.47	54.32	79.80	98.14	-1,438.76	2,946.92	2,578.82	2,445.38	133.45	19.325		
5,600.00	4,763.59	4,706.59	4,706.59	55.64	81.17	99.21	-1,438.76	2,946.92	2,590.79	2,454.87	135.92	19.062		
5,700.00	4,841.71	4,784.71	4,784.71	56.97	82.53	100.28	-1,438.76	2,946.92	2,604.20	2,465.85	138.35	18.823		
5,800.00	4,919.83	4,862.83	4,862.83	58.30	83.89	101.34	-1,438.76	2,946.92	2,619.03	2,478.27	140.75	18.607		
5,900.00	4,997.94	4,940.94	4,940.94	59.62	85.26	102.40	-1,438.76	2,946.92	2,635.25	2,492.13	143.12	18.413		
6,000.00	5,076.06	5,019.06	5,019.06	60.95	86.62	103.45	-1,438.76	2,946.92	2,652.84	2,507.39	145.45	18.239		
6,100.00	5,154.18	5,102.82	5,097.18	62.28	88.08	104.48	-1,438.76	2,946.92	2,671.78	2,523.93	147.85	18.071		
6,200.00	5,232.29	5,175.29	5,175.29	63.61	89.35	105.51	-1,438.76	2,946.92	2,692.04	2,542.02	150.01	17.945		
6,300.00	5,310.41	5,253.41	5,253.41	64.93	90.71	106.53	-1,438.76	2,946.92	2,713.57	2,561.33	152.24	17.824		
6,400.00	5,388.53	5,331.53	5,331.53	66.26	92.08	107.54	-1,438.76	2,946.92	2,736.37	2,581.93	154.44	17.719		
6,500.00	5,466.64	5,409.64	5,409.64	67.59	93.44	108.53	-1,438.76	2,946.92	2,760.39	2,603.79	156.60	17.627		
6,600.00	5,544.76	5,487.76	5,487.76	68.92	94.80	109.52	-1,438.76	2,946.92	2,785.60	2,626.87	158.73	17.550		
6,700.00	5,622.88	5,565.88	5,565.88	70.25	96.17	110.49	-1,438.76	2,946.92	2,811.97	2,651.14	160.82	17.485		
6,800.00	5,701.00	5,644.00	5,644.00	71.58	97.53	111.45	-1,438.76	2,946.92	2,839.46	2,676.57	162.89	17.432		
6,900.00	5,779.11	5,722.11	5,722.11	72.91	98.89	112.40	-1,438.76	2,946.92	2,868.06	2,703.13	164.93	17.390		
7,000.00	5,857.23	5,800.23	5,800.23	74.23	100.26	113.33	-1,438.76	2,946.92	2,897.72	2,730.78	166.94	17.358		
7,100.00	5,935.35	5,878.35	5,878.35	75.56	101.62	114.25	-1,438.76	2,946.92	2,928.40	2,759.48	168.92	17.336		
7,200.00	6,013.46	5,956.46	5,956.46	76.89	102.98	115.16	-1,438.76	2,946.92	2,960.09	2,789.21	170.88	17.323		
7,300.00	6,091.58	6,034.58	6,034.58	78.22	104.35	116.06	-1,438.76	2,946.92	2,992.74	2,819.94	172.81	17.318		
7,400.00	6,169.70	6,112.70	6,112.70	79.55	105.71	116.94	-1,438.76	2,946.92	3,026.33	2,851.62	174.71	17.322		
7,500.00	6,247.81	6,209.19	6,190.81	80.88	107.39	117.81	-1,438.76	2,946.92	3,060.83	2,883.91	176.92	17.301		
7,600.00	6,325.93	6,268.93	6,268.93	82.21	108.44	118.67	-1,438.76	2,946.92	3,096.20	2,917.74	178.46	17.350		
7,700.00	6,404.05	6,347.05	6,347.05	83.54	109.80	119.51	-1,438.76	2,946.92	3,132.41	2,952.11	180.30	17.373		
7,800.00	6,482.17	6,425.17	6,425.17	84.87	111.16	120.33	-1,438.76	2,946.92	3,169.44	2,987.32	182.12	17.403		
7,900.00	6,560.28	6,503.28	6,503.28	86.20	112.53	121.15	-1,438.76	2,946.92	3,207.26	3,023.33	183.93	17.438		
8,000.00	6,638.40	6,581.40	6,581.40	87.53	113.89	121.95	-1,438.76	2,946.92	3,245.84	3,060.12	185.72	17.477		
8,100.00	6,716.52	6,659.52	6,659.52	88.86	115.25	122.73	-1,438.76	2,946.92	3,285.15	3,097.67	187.49	17.522		
8,200.00	6,794.63	6,737.63	6,737.63	90.20	116.62	123.51	-1,438.76	2,946.92	3,325.17	3,135.93	189.24	17.571		
8,300.00	6,872.75	6,815.75	6,815.75	91.53	117.98	124.27	-1,438.76	2,946.92	3,365.87	3,174.89	190.99	17.624		
8,400.00	6,950.87	6,906.13	6,893.87	92.86	119.56	125.01	-1,438.76	2,946.92	3,407.23	3,214.30	192.93	17.661		
8,500.00	7,028.98	6,971.98	6,971.98	94.19	120.71	125.74	-1,438.76	2,946.92	3,449.23	3,254.80	194.43	17.740		
8,600.00	7,107.10	7,050.10	7,050.10	95.52	122.07	126.46	-1,438.76	2,946.92	3,491.83	3,295.69	196.14	17.803		
8,647.91	7,144.53	7,087.53	7,087.53	96.16	122.72	126.80	-1,438.76	2,946.92	3,512.45	3,315.50	196.95	17.834		
8,650.00	7,146.16	7,089.16	7,089.16	96.18	122.75	126.54	-1,438.76	2,946.92	3,513.35	3,316.37	196.99	17.835		
8,700.00	7,185.66	7,128.66	7,128.66	96.84	123.44	120.11	-1,438.76	2,946.92	3,532.96	3,335.12	197.84	17.857		
8,750.00	7,225.78	7,168.78	7,168.78	97.47	124.14	113.38	-1,438.76	2,946.92	3,548.83	3,350.12	198.72	17.859		
8,800.00	7,266.21	7,209.21	7,209.21	98.08	124.85	106.55	-1,438.76	2,946.92	3,560.88	3,361.29	199.59	17.841		
8,850.00	7,306.63	7,249.63	7,249.63	98.64	125.55	99.84	-1,438.76	2,946.92	3,569.05	3,368.58	200.46	17.804		
8,900.00	7,346.75	7,289.75	7,289.75	99.17	126.25	93.48	-1,438.76	2,946.92	3,573.30	3,371.99	201.32	17.750		
8,950.00	7,386.25	7,329.25	7,329.25	99.64	126.94	87.69	-1,438.76	2,946.92	3,573.64	3,371.50	202.14	17.679		
9,000.00	7,424.84	7,367.84	7,367.84	100.06	127.62	82.58	-1,438.76	2,946.92	3,570.10	3,367.16	202.94	17.592		
9,050.00	7,462.22	7,405.22	7,405.22	100.42	128.27	78.23	-1,438.76	2,946.92	3,562.71	3,359.02	203.69	17.491		
9,100.00	7,498.11	7,441.11	7,441.11	100.74	128.89	74.65	-1,438.76	2,946.92	3,551.56	3,347.17	204.39	17.377		
9,150.00	7,532.24	7,475.24	7,475.24	100.99	129.49	71.82	-1,438.76	2,946.92	3,536.74	3,331.71	205.03	17.250		
9,200.00	7,564.34	7,507.34	7,507.34	101.19	130.05	69.71	-1,438.76	2,946.92	3,518.38	3,312.77	205.60	17.112		
9,250.00	7,594.17	7,537.17	7,537.17	101.34	130.57	68.30	-1,438.76	2,946.92	3,496.62	3,290.50	206.11	16.964		
9,300.00	7,621.50	7,564.50	7,564.50	101.45	131.05	67.55	-1,438.76	2,946.92	3,471.62	3,265.07	206.55	16.807		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,589.13	7,589.13	101.50	131.48	67.47	-1,438.76	2,946.92	3,443.57	3,236.66	206.92	16.642		
9,400.00	7,667.87	7,610.87	7,610.87	101.51	131.86	68.07	-1,438.76	2,946.92	3,412.68	3,205.48	207.20	16.470		
9,450.00	7,686.55	7,629.55	7,629.55	101.48	132.18	69.38	-1,438.76	2,946.92	3,379.15	3,171.74	207.41	16.292		
9,500.00	7,702.04	7,645.04	7,645.04	101.42	132.45	71.47	-1,438.76	2,946.92	3,343.22	3,135.67	207.55	16.108		
9,550.00	7,714.20	7,657.20	7,657.20	101.33	132.67	74.44	-1,438.76	2,946.92	3,305.14	3,097.53	207.61	15.920		
9,600.00	7,722.96	7,665.96	7,665.96	101.20	132.82	78.41	-1,438.76	2,946.92	3,265.16	3,057.57	207.60	15.728		
9,650.00	7,728.24	7,671.24	7,671.24	101.06	132.91	83.54	-1,438.76	2,946.92	3,223.56	3,016.04	207.52	15.534		
9,699.97	7,730.00	7,673.00	7,673.00	100.90	132.94	90.00	-1,438.76	2,946.92	3,180.62	2,973.25	207.37	15.338		
9,800.00	7,730.00	7,673.00	7,673.00	100.56	132.94	90.00	-1,438.76	2,946.92	3,093.91	2,886.90	207.00	14.946		
9,900.00	7,730.00	7,673.00	7,673.00	100.24	132.94	90.00	-1,438.76	2,946.92	3,008.04	2,801.43	206.61	14.559		
10,000.00	7,730.00	7,673.00	7,673.00	99.93	132.94	90.00	-1,438.76	2,946.92	2,923.07	2,716.89	206.18	14.177		
10,100.00	7,730.00	7,673.00	7,673.00	99.64	132.94	90.00	-1,438.76	2,946.92	2,839.08	2,633.36	205.73	13.800		
10,200.00	7,730.00	7,673.00	7,673.00	99.36	132.94	90.00	-1,438.76	2,946.92	2,756.17	2,550.93	205.24	13.429		
10,300.00	7,730.00	7,673.00	7,673.00	99.09	132.94	90.00	-1,438.76	2,946.92	2,674.42	2,469.70	204.71	13.064		
10,400.00	7,730.00	7,673.00	7,673.00	98.84	132.94	90.00	-1,438.76	2,946.92	2,593.95	2,389.80	204.15	12.706		
10,500.00	7,730.00	7,673.00	7,673.00	98.61	132.94	90.00	-1,438.76	2,946.92	2,514.88	2,311.34	203.54	12.356		
10,600.00	7,730.00	7,673.00	7,673.00	98.39	132.94	90.00	-1,438.76	2,946.92	2,437.35	2,234.46	202.88	12.013		
10,700.00	7,730.00	7,673.00	7,673.00	98.18	132.94	90.00	-1,438.76	2,946.92	2,361.50	2,159.32	202.18	11.680		
10,800.00	7,730.00	7,673.00	7,673.00	97.99	132.94	90.00	-1,438.76	2,946.92	2,287.52	2,086.09	201.43	11.356		
10,900.00	7,730.00	7,673.00	7,673.00	97.81	132.94	90.00	-1,438.76	2,946.92	2,215.58	2,014.96	200.63	11.043		
11,000.00	7,730.00	7,673.00	7,673.00	97.64	132.94	90.00	-1,438.76	2,946.92	2,145.89	1,946.12	199.77	10.742		
11,100.00	7,730.00	7,673.00	7,673.00	97.50	132.94	90.00	-1,438.76	2,946.92	2,078.68	1,879.82	198.86	10.453		
11,200.00	7,730.00	7,673.00	7,673.00	97.36	132.94	90.00	-1,438.76	2,946.92	2,014.19	1,816.29	197.90	10.178		
11,300.00	7,730.00	7,673.00	7,673.00	97.24	132.94	90.00	-1,438.76	2,946.92	1,952.69	1,755.79	196.90	9.917		
11,400.00	7,730.00	7,673.00	7,673.00	97.14	132.94	90.00	-1,438.76	2,946.92	1,894.48	1,698.61	195.87	9.672		
11,500.00	7,730.00	7,673.00	7,673.00	97.06	132.94	90.00	-1,438.76	2,946.92	1,839.86	1,645.05	194.81	9.444		
11,600.00	7,730.00	7,673.00	7,673.00	96.98	132.94	90.00	-1,438.76	2,946.92	1,789.18	1,595.42	193.75	9.234		
11,700.00	7,730.00	7,673.00	7,673.00	96.93	132.94	90.00	-1,438.76	2,946.92	1,742.76	1,550.04	192.72	9.043		
11,800.00	7,730.00	7,673.00	7,673.00	96.90	132.94	90.00	-1,438.76	2,946.92	1,700.96	1,509.22	191.73	8.872		
11,900.00	7,730.00	7,673.00	7,673.00	96.88	132.94	90.00	-1,438.76	2,946.92	1,664.12	1,473.29	190.83	8.720		
12,000.00	7,730.00	7,673.00	7,673.00	96.88	132.94	90.00	-1,438.76	2,946.92	1,632.59	1,442.53	190.06	8.590		
12,100.00	7,730.00	7,673.00	7,673.00	96.90	132.94	90.00	-1,438.76	2,946.92	1,606.67	1,417.21	189.46	8.480		
12,200.00	7,730.00	7,673.00	7,673.00	96.94	132.94	90.00	-1,438.76	2,946.92	1,586.65	1,397.58	189.07	8.392		
12,300.00	7,730.00	7,673.00	7,673.00	97.00	132.94	90.00	-1,438.76	2,946.92	1,572.74	1,383.83	188.91	8.325		
12,400.00	7,730.00	7,673.00	7,673.00	97.08	132.94	90.00	-1,438.76	2,946.92	1,565.10	1,376.10	189.00	8.281		
12,469.75	7,730.00	7,673.00	7,673.00	97.15	132.94	90.00	-1,438.76	2,946.92	1,563.55	1,374.32	189.23	8.263 CC, ES		
12,500.00	7,730.00	7,673.00	7,673.00	97.18	132.94	90.00	-1,438.76	2,946.92	1,563.84	1,374.48	189.36	8.259 SF		
12,600.00	7,730.00	7,673.00	7,673.00	97.31	132.94	90.00	-1,438.76	2,946.92	1,568.97	1,379.01	189.96	8.259		
12,700.00	7,730.00	7,673.00	7,673.00	97.46	132.94	90.00	-1,438.76	2,946.92	1,580.41	1,389.63	190.78	8.284		
12,800.00	7,730.00	7,673.00	7,673.00	97.64	132.94	90.00	-1,438.76	2,946.92	1,598.05	1,406.26	191.79	8.332		
12,900.00	7,730.00	7,673.00	7,673.00	97.85	132.94	90.00	-1,438.76	2,946.92	1,621.67	1,428.73	192.94	8.405		
13,000.00	7,730.00	7,673.00	7,673.00	98.09	132.94	90.00	-1,438.76	2,946.92	1,651.02	1,456.84	194.18	8.503		
13,100.00	7,730.00	7,673.00	7,673.00	98.35	132.94	90.00	-1,438.76	2,946.92	1,685.79	1,490.32	195.47	8.624		
13,200.00	7,730.00	7,673.00	7,673.00	98.65	132.94	90.00	-1,438.76	2,946.92	1,725.67	1,528.89	196.78	8.770		
13,300.00	7,730.00	7,673.00	7,673.00	98.98	132.94	90.00	-1,438.76	2,946.92	1,770.31	1,572.24	198.07	8.938		
13,400.00	7,730.00	7,673.00	7,673.00	99.34	132.94	90.00	-1,438.76	2,946.92	1,819.35	1,620.02	199.33	9.127		
13,500.00	7,730.00	7,673.00	7,673.00	99.74	132.94	90.00	-1,438.76	2,946.92	1,872.46	1,671.93	200.53	9.337		
13,600.00	7,730.00	7,673.00	7,673.00	100.17	132.94	90.00	-1,438.76	2,946.92	1,929.29	1,727.62	201.67	9.567		
13,700.00	7,730.00	7,673.00	7,673.00	100.65	132.94	90.00	-1,438.76	2,946.92	1,989.52	1,786.79	202.73	9.814		
13,800.00	7,730.00	7,673.00	7,673.00	101.16	132.94	90.00	-1,438.76	2,946.92	2,052.86	1,849.14	203.72	10.077		
13,900.00	7,730.00	7,673.00	7,673.00	101.71	132.94	90.00	-1,438.76	2,946.92	2,119.03	1,914.40	204.64	10.355		
14,000.00	7,730.00	7,673.00	7,673.00	102.30	132.94	90.00	-1,438.76	2,946.92	2,187.77	1,982.29	205.48	10.647		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,673.00	7,673.00	102.93	132.94	90.00	-1,438.76	2,946.92	2,258.85	2,052.59	206.26	10.952		
14,200.00	7,730.00	7,673.00	7,673.00	103.60	132.94	90.00	-1,438.76	2,946.92	2,332.05	2,125.08	206.96	11.268		
14,300.00	7,730.00	7,673.00	7,673.00	104.32	132.94	90.00	-1,438.76	2,946.92	2,407.18	2,199.56	207.61	11.594		
14,400.00	7,730.00	7,673.00	7,673.00	105.07	132.94	90.00	-1,438.76	2,946.92	2,484.06	2,275.85	208.21	11.931		
14,500.00	7,730.00	7,673.00	7,673.00	105.86	132.94	90.00	-1,438.76	2,946.92	2,562.54	2,353.79	208.75	12.275		
14,600.00	7,730.00	7,673.00	7,673.00	106.70	132.94	90.00	-1,438.76	2,946.92	2,642.47	2,433.22	209.25	12.628		
14,700.00	7,730.00	7,673.00	7,673.00	107.57	132.94	90.00	-1,438.76	2,946.92	2,723.73	2,514.02	209.70	12.988		
14,800.00	7,730.00	7,673.00	7,673.00	108.48	132.94	90.00	-1,438.76	2,946.92	2,806.20	2,596.08	210.12	13.355		
14,900.00	7,730.00	7,673.00	7,673.00	109.43	132.94	90.00	-1,438.76	2,946.92	2,889.78	2,679.27	210.50	13.728		
15,000.00	7,730.00	7,673.00	7,673.00	110.42	132.94	90.00	-1,438.76	2,946.92	2,974.37	2,763.51	210.85	14.106		
15,100.00	7,730.00	7,673.00	7,673.00	111.43	132.94	90.00	-1,438.76	2,946.92	3,059.89	2,848.71	211.18	14.490		
15,200.00	7,730.00	7,673.00	7,673.00	112.49	132.94	90.00	-1,438.76	2,946.92	3,146.26	2,934.79	211.47	14.878		
15,300.00	7,730.00	7,673.00	7,673.00	113.57	132.94	90.00	-1,438.76	2,946.92	3,233.42	3,021.67	211.74	15.270		
15,400.00	7,730.00	7,673.00	7,673.00	114.68	132.94	90.00	-1,438.76	2,946.92	3,321.30	3,109.31	212.00	15.667		
15,500.00	7,730.00	7,673.00	7,673.00	115.82	132.94	90.00	-1,438.76	2,946.92	3,409.85	3,197.62	212.23	16.067		
15,600.00	7,730.00	7,673.00	7,673.00	116.99	132.94	90.00	-1,438.76	2,946.92	3,499.02	3,286.58	212.45	16.470		
15,700.00	7,730.00	7,673.00	7,673.00	118.19	132.94	90.00	-1,438.76	2,946.92	3,588.76	3,376.11	212.65	16.877		
15,800.00	7,730.00	7,673.00	7,673.00	119.41	132.94	90.00	-1,438.76	2,946.92	3,679.03	3,466.20	212.83	17.286		
15,900.00	7,730.00	7,673.00	7,673.00	120.65	132.94	90.00	-1,438.76	2,946.92	3,769.79	3,556.78	213.01	17.698		
16,000.00	7,730.00	7,673.00	7,673.00	121.91	132.94	90.00	-1,438.76	2,946.92	3,861.00	3,647.84	213.17	18.112		
16,100.00	7,730.00	7,673.00	7,673.00	123.20	132.94	90.00	-1,438.76	2,946.92	3,952.64	3,739.33	213.32	18.529		
16,200.00	7,730.00	7,673.00	7,673.00	124.50	132.94	90.00	-1,438.76	2,946.92	4,044.68	3,831.22	213.46	18.948		
16,300.00	7,730.00	7,673.00	7,673.00	125.82	132.94	90.00	-1,438.76	2,946.92	4,137.09	3,923.49	213.59	19.369		
16,400.00	7,730.00	7,673.00	7,673.00	127.16	132.94	90.00	-1,438.76	2,946.92	4,229.84	4,016.12	213.72	19.792		
16,500.00	7,730.00	7,673.00	7,673.00	128.52	132.94	90.00	-1,438.76	2,946.92	4,322.92	4,109.08	213.84	20.216		
16,600.00	7,730.00	7,673.00	7,673.00	129.89	132.94	90.00	-1,438.76	2,946.92	4,416.29	4,202.35	213.95	20.642		
16,700.00	7,730.00	7,673.00	7,673.00	131.27	132.94	90.00	-1,438.76	2,946.92	4,509.96	4,295.90	214.05	21.069		
16,800.00	7,730.00	7,673.00	7,673.00	132.67	132.94	90.00	-1,438.76	2,946.92	4,603.88	4,389.73	214.15	21.498		
16,900.00	7,730.00	7,673.00	7,673.00	134.09	132.94	90.00	-1,438.76	2,946.92	4,698.06	4,483.82	214.25	21.928		
17,000.00	7,730.00	7,673.00	7,673.00	135.51	132.94	90.00	-1,438.76	2,946.92	4,792.48	4,578.14	214.34	22.360		
17,100.00	7,730.00	7,673.00	7,673.00	136.95	132.94	90.00	-1,438.76	2,946.92	4,887.12	4,672.69	214.42	22.792		
17,200.00	7,730.00	7,673.00	7,673.00	138.40	132.94	90.00	-1,438.76	2,946.92	4,981.96	4,767.46	214.50	23.226		
17,300.00	7,730.00	7,673.00	7,673.00	139.85	132.94	90.00	-1,438.76	2,946.92	5,077.01	4,862.43	214.58	23.660		
17,400.00	7,730.00	7,673.00	7,673.00	141.32	132.94	90.00	-1,438.76	2,946.92	5,172.24	4,957.58	214.66	24.096		
17,500.00	7,730.00	7,673.00	7,673.00	142.80	132.94	90.00	-1,438.76	2,946.92	5,267.65	5,052.92	214.73	24.532		
17,600.00	7,730.00	7,673.00	7,673.00	144.28	132.94	90.00	-1,438.76	2,946.92	5,363.22	5,148.43	214.80	24.969		
17,700.00	7,730.00	7,673.00	7,673.00	145.78	132.94	90.00	-1,438.76	2,946.92	5,458.96	5,244.09	214.86	25.407		
17,800.00	7,730.00	7,673.00	7,673.00	147.28	132.94	90.00	-1,438.76	2,946.92	5,554.84	5,339.91	214.93	25.845		
17,900.00	7,730.00	7,673.00	7,673.00	148.79	132.94	90.00	-1,438.76	2,946.92	5,650.87	5,435.88	214.99	26.285		
18,000.00	7,730.00	7,673.00	7,673.00	150.31	132.94	90.00	-1,438.76	2,946.92	5,747.03	5,531.98	215.05	26.725		
18,100.00	7,730.00	7,673.00	7,673.00	151.83	132.94	90.00	-1,438.76	2,946.92	5,843.32	5,628.22	215.10	27.165		
18,200.00	7,730.00	7,673.00	7,673.00	153.37	132.94	90.00	-1,438.76	2,946.92	5,939.74	5,724.57	215.16	27.606		
18,300.00	7,730.00	7,673.00	7,673.00	154.90	132.94	90.00	-1,438.76	2,946.92	6,036.27	5,821.05	215.21	28.048		
18,400.00	7,730.00	7,673.00	7,673.00	156.45	132.94	90.00	-1,438.76	2,946.92	6,132.91	5,917.64	215.27	28.490		
18,500.00	7,730.00	7,673.00	7,673.00	158.00	132.94	90.00	-1,438.76	2,946.92	6,229.66	6,014.34	215.32	28.932		
18,600.00	7,730.00	7,673.00	7,673.00	159.55	132.94	90.00	-1,438.76	2,946.92	6,326.50	6,111.13	215.37	29.375		
18,700.00	7,730.00	7,673.00	7,673.00	161.11	132.94	90.00	-1,438.76	2,946.92	6,423.45	6,208.03	215.42	29.818		
18,800.00	7,730.00	7,673.00	7,673.00	162.68	132.94	90.00	-1,438.76	2,946.92	6,520.49	6,305.02	215.47	30.262		
18,900.00	7,730.00	7,673.00	7,673.00	164.25	132.94	90.00	-1,438.76	2,946.92	6,617.61	6,402.10	215.51	30.706		
19,000.00	7,730.00	7,673.00	7,673.00	165.83	132.94	90.00	-1,438.76	2,946.92	6,714.82	6,499.26	215.56	31.150		
19,100.00	7,730.00	7,673.00	7,673.00	167.41	132.94	90.00	-1,438.76	2,946.92	6,812.11	6,596.51	215.61	31.595		
19,200.00	7,730.00	7,673.00	7,673.00	168.99	132.94	90.00	-1,438.76	2,946.92	6,909.48	6,693.83	215.65	32.040		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 23-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,673.00	7,673.00	170.58	132.94	90.00	-1,438.76	2,946.92	7,006.93	6,791.23	215.70	32.485	
19,400.00	7,730.00	7,673.00	7,673.00	172.17	132.94	90.00	-1,438.76	2,946.92	7,104.44	6,888.70	215.74	32.931	
19,430.54	7,730.00	7,673.00	7,673.00	172.66	132.94	90.00	-1,438.76	2,946.92	7,134.23	6,918.48	215.75	33.067	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	108.71	-1,434.94	4,237.80	4,474.30					
100.00	100.00	64.00	64.00	0.13	0.49	108.71	-1,434.94	4,237.80	4,474.15	4,473.53	0.62	7,212.565		
200.00	200.00	164.00	164.00	0.49	1.88	108.71	-1,434.94	4,237.80	4,474.15	4,471.78	2.37	1,888.522		
300.00	300.00	264.00	264.00	0.85	3.62	108.71	-1,434.94	4,237.80	4,474.15	4,469.68	4.47	1,000.273		
400.00	400.00	364.00	364.00	1.21	5.37	108.71	-1,434.94	4,237.80	4,474.15	4,467.57	6.58	680.300		
500.00	500.00	464.00	464.00	1.57	7.11	108.71	-1,434.94	4,237.80	4,474.15	4,465.47	8.68	515.424		
600.00	599.98	563.98	563.98	1.92	8.86	43.39	-1,434.94	4,237.80	4,472.88	4,462.10	10.78	414.950		
700.00	699.84	663.84	663.84	2.28	10.60	43.49	-1,434.94	4,237.80	4,469.08	4,456.20	12.88	347.097		
800.00	799.45	763.45	763.45	2.64	12.34	43.65	-1,434.94	4,237.80	4,462.75	4,447.78	14.97	298.053		
900.00	898.70	862.70	862.70	3.02	14.07	43.88	-1,434.94	4,237.80	4,453.92	4,436.85	17.07	260.900		
1,000.00	997.47	961.47	961.47	3.41	15.79	44.18	-1,434.94	4,237.80	4,442.61	4,423.43	19.17	231.730		
1,100.00	1,095.62	1,059.62	1,059.62	3.84	17.51	44.54	-1,434.94	4,237.80	4,428.84	4,407.57	21.27	208.176		
1,200.00	1,193.06	1,157.06	1,157.06	4.29	19.21	44.98	-1,434.94	4,237.80	4,412.66	4,389.28	23.38	188.721		
1,300.00	1,289.64	1,253.64	1,253.64	4.78	20.89	45.48	-1,434.94	4,237.80	4,394.12	4,368.62	25.50	172.348		
1,400.00	1,385.27	1,349.27	1,349.27	5.32	22.56	46.05	-1,434.94	4,237.80	4,373.26	4,345.64	27.62	158.352		
1,500.00	1,479.82	1,443.82	1,443.82	5.90	24.21	46.70	-1,434.94	4,237.80	4,350.15	4,320.40	29.75	146.226		
1,600.00	1,573.17	1,537.17	1,537.17	6.53	25.84	47.42	-1,434.94	4,237.80	4,324.84	4,292.95	31.89	135.600		
1,700.00	1,665.21	1,629.21	1,629.21	7.23	27.45	48.21	-1,434.94	4,237.80	4,297.43	4,263.38	34.05	126.196		
1,800.00	1,755.84	1,719.84	1,719.84	7.98	29.03	49.07	-1,434.94	4,237.80	4,267.98	4,231.75	36.23	117.802		
1,900.00	1,844.94	1,808.94	1,808.94	8.80	30.59	50.01	-1,434.94	4,237.80	4,236.59	4,198.16	38.43	110.252		
2,000.00	1,932.39	1,903.61	1,896.39	9.68	32.24	51.03	-1,434.94	4,237.80	4,203.35	4,162.57	40.77	103.097		
2,100.00	2,018.11	1,982.11	1,982.11	10.63	33.61	52.12	-1,434.94	4,237.80	4,168.36	4,125.47	42.89	97.192		
2,200.00	2,101.97	2,065.97	2,065.97	11.65	35.07	53.28	-1,434.94	4,237.80	4,131.74	4,086.58	45.16	91.495		
2,300.00	2,183.88	2,147.88	2,147.88	12.74	36.50	54.52	-1,434.94	4,237.80	4,093.60	4,046.14	47.46	86.257		
2,400.00	2,263.74	2,227.74	2,227.74	13.90	37.90	55.83	-1,434.94	4,237.80	4,054.07	4,004.28	49.79	81.424		
2,431.61	2,288.54	2,252.54	2,252.54	14.29	38.33	56.26	-1,434.94	4,237.80	4,041.31	3,990.77	50.53	79.972		
2,500.00	2,341.97	2,305.97	2,305.97	15.13	39.26	56.69	-1,434.94	4,237.80	4,013.69	3,961.53	52.15	76.959		
2,600.00	2,420.08	2,384.08	2,384.08	16.37	40.62	57.33	-1,434.94	4,237.80	3,973.79	3,919.24	54.55	72.844		
2,700.00	2,498.20	2,462.20	2,462.20	17.63	41.99	57.98	-1,434.94	4,237.80	3,934.47	3,877.49	56.98	69.048		
2,800.00	2,576.32	2,540.32	2,540.32	18.89	43.35	58.64	-1,434.94	4,237.80	3,895.76	3,836.32	59.44	65.539		
2,900.00	2,654.43	2,618.43	2,618.43	20.17	44.71	59.31	-1,434.94	4,237.80	3,857.68	3,795.75	61.93	62.291		
3,000.00	2,732.55	2,703.45	2,696.55	21.45	46.20	59.99	-1,434.94	4,237.80	3,820.23	3,755.66	64.56	59.169		
3,100.00	2,810.67	2,774.67	2,774.67	22.74	47.44	60.67	-1,434.94	4,237.80	3,783.44	3,716.46	66.98	56.483		
3,200.00	2,888.78	2,852.78	2,852.78	24.03	48.80	61.37	-1,434.94	4,237.80	3,747.33	3,677.78	69.55	53.881		
3,300.00	2,966.90	2,930.90	2,930.90	25.33	50.17	62.07	-1,434.94	4,237.80	3,711.92	3,639.79	72.14	51.458		
3,400.00	3,045.02	3,009.02	3,009.02	26.63	51.53	62.79	-1,434.94	4,237.80	3,677.23	3,602.48	74.75	49.197		
3,500.00	3,123.13	3,087.13	3,087.13	27.94	52.89	63.51	-1,434.94	4,237.80	3,643.28	3,565.90	77.38	47.085		
3,600.00	3,201.25	3,165.25	3,165.25	29.24	54.26	64.25	-1,434.94	4,237.80	3,610.09	3,530.06	80.03	45.109		
3,700.00	3,279.37	3,243.37	3,243.37	30.55	55.62	64.99	-1,434.94	4,237.80	3,577.68	3,494.98	82.70	43.259		
3,800.00	3,357.49	3,321.49	3,321.49	31.86	56.98	65.74	-1,434.94	4,237.80	3,546.07	3,460.68	85.40	41.525		
3,900.00	3,435.60	3,400.40	3,399.60	33.18	58.36	66.50	-1,434.94	4,237.80	3,515.29	3,427.17	88.12	39.892		
4,000.00	3,513.72	3,477.72	3,477.72	34.49	59.71	67.27	-1,434.94	4,237.80	3,485.36	3,394.52	90.84	38.369		
4,100.00	3,591.84	3,555.84	3,555.84	35.81	61.07	68.05	-1,434.94	4,237.80	3,456.29	3,362.71	93.58	36.932		
4,200.00	3,669.95	3,633.95	3,633.95	37.12	62.44	68.84	-1,434.94	4,237.80	3,428.11	3,331.77	96.35	35.581		
4,300.00	3,748.07	3,712.07	3,712.07	38.44	63.80	69.63	-1,434.94	4,237.80	3,400.85	3,301.72	99.13	34.308		
4,400.00	3,826.19	3,809.81	3,790.19	39.76	65.51	70.44	-1,434.94	4,237.80	3,374.52	3,272.26	102.26	32.999		
4,500.00	3,904.30	3,868.30	3,868.30	41.08	66.53	71.25	-1,434.94	4,237.80	3,349.15	3,244.43	104.73	31.980		
4,600.00	3,982.42	3,946.42	3,946.42	42.40	67.89	72.07	-1,434.94	4,237.80	3,324.76	3,217.22	107.54	30.915		
4,700.00	4,060.54	4,024.54	4,024.54	43.72	69.26	72.89	-1,434.94	4,237.80	3,301.37	3,190.99	110.37	29.911		
4,800.00	4,138.66	4,102.66	4,102.66	45.05	70.62	73.73	-1,434.94	4,237.80	3,279.00	3,165.79	113.21	28.963		
4,900.00	4,216.77	4,180.77	4,180.77	46.37	71.98	74.57	-1,434.94	4,237.80	3,257.67	3,141.61	116.06	28.069		
5,000.00	4,294.89	4,258.89	4,258.89	47.69	73.35	75.42	-1,434.94	4,237.80	3,237.41	3,118.50	118.91	27.225		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,337.01	4,337.01	49.02	74.71	76.27	-1,434.94	4,237.80	3,218.23	3,096.46	121.77	26.429		
5,200.00	4,451.12	4,415.12	4,415.12	50.34	76.07	77.14	-1,434.94	4,237.80	3,200.15	3,075.52	124.63	25.677		
5,300.00	4,529.24	4,506.76	4,493.24	51.67	77.67	78.00	-1,434.94	4,237.80	3,183.20	3,055.47	127.73	24.921		
5,400.00	4,607.36	4,571.36	4,571.36	52.99	78.80	78.88	-1,434.94	4,237.80	3,167.38	3,037.02	130.36	24.297		
5,500.00	4,685.47	4,649.47	4,649.47	54.32	80.16	79.76	-1,434.94	4,237.80	3,152.73	3,019.50	133.22	23.665		
5,600.00	4,763.59	4,727.59	4,727.59	55.64	81.53	80.64	-1,434.94	4,237.80	3,139.24	3,003.16	136.08	23.069		
5,700.00	4,841.71	4,805.71	4,805.71	56.97	82.89	81.53	-1,434.94	4,237.80	3,126.95	2,988.01	138.94	22.506		
5,800.00	4,919.83	4,883.83	4,883.83	58.30	84.25	82.42	-1,434.94	4,237.80	3,115.86	2,974.07	141.78	21.976		
5,900.00	4,997.94	4,961.94	4,961.94	59.62	85.62	83.31	-1,434.94	4,237.80	3,105.98	2,961.36	144.62	21.477		
6,000.00	5,076.06	5,040.06	5,040.06	60.95	86.98	84.21	-1,434.94	4,237.80	3,097.33	2,949.88	147.45	21.006		
6,100.00	5,154.18	5,118.18	5,118.18	62.28	88.34	85.11	-1,434.94	4,237.80	3,089.92	2,939.66	150.26	20.564		
6,200.00	5,232.29	5,203.71	5,196.29	63.61	89.84	86.02	-1,434.94	4,237.80	3,083.75	2,930.57	153.19	20.130		
6,300.00	5,310.41	5,274.41	5,274.41	64.93	91.07	86.93	-1,434.94	4,237.80	3,078.84	2,923.00	155.84	19.756		
6,400.00	5,388.53	5,352.53	5,352.53	66.26	92.43	87.83	-1,434.94	4,237.80	3,075.19	2,916.59	158.61	19.389		
6,500.00	5,466.64	5,430.64	5,430.64	67.59	93.80	88.74	-1,434.94	4,237.80	3,072.80	2,911.45	161.35	19.044		
6,600.00	5,544.76	5,508.76	5,508.76	68.92	95.16	89.65	-1,434.94	4,237.80	3,071.68	2,907.61	164.07	18.722		
6,638.28	5,574.67	5,538.67	5,538.67	69.43	95.68	90.00	-1,434.94	4,237.80	3,071.59	2,906.48	165.11	18.604		
6,700.00	5,622.88	5,586.88	5,586.88	70.25	96.52	90.56	-1,434.94	4,237.80	3,071.83	2,905.06	166.77	18.420		
6,800.00	5,701.00	5,665.00	5,665.00	71.58	97.89	91.47	-1,434.94	4,237.80	3,073.25	2,903.81	169.44	18.137		
6,900.00	5,779.11	5,743.11	5,743.11	72.91	99.25	92.38	-1,434.94	4,237.80	3,075.93	2,903.84	172.09	17.874		
7,000.00	5,857.23	5,821.23	5,821.23	74.23	100.61	93.29	-1,434.94	4,237.80	3,079.88	2,905.17	174.71	17.628		
7,100.00	5,935.35	5,900.65	5,899.35	75.56	102.00	94.19	-1,434.94	4,237.80	3,085.09	2,907.76	177.33	17.398		
7,200.00	6,013.46	5,977.46	5,977.46	76.89	103.34	95.10	-1,434.94	4,237.80	3,091.55	2,911.68	179.87	17.188		
7,300.00	6,091.58	6,055.58	6,055.58	78.22	104.70	96.00	-1,434.94	4,237.80	3,099.25	2,916.85	182.40	16.992		
7,400.00	6,169.70	6,133.70	6,133.70	79.55	106.07	96.90	-1,434.94	4,237.80	3,108.19	2,923.29	184.90	16.810		
7,500.00	6,247.81	6,211.81	6,211.81	80.88	107.43	97.79	-1,434.94	4,237.80	3,118.35	2,930.98	187.37	16.643		
7,600.00	6,325.93	6,289.93	6,289.93	82.21	108.79	98.68	-1,434.94	4,237.80	3,129.72	2,939.92	189.81	16.489		
7,700.00	6,404.05	6,368.05	6,368.05	83.54	110.16	99.57	-1,434.94	4,237.80	3,142.30	2,950.09	192.21	16.348		
7,800.00	6,482.17	6,446.17	6,446.17	84.87	111.52	100.45	-1,434.94	4,237.80	3,156.06	2,961.48	194.58	16.220		
7,900.00	6,560.28	6,524.28	6,524.28	86.20	112.88	101.33	-1,434.94	4,237.80	3,170.99	2,974.07	196.92	16.103		
8,000.00	6,638.40	6,602.40	6,602.40	87.53	114.25	102.20	-1,434.94	4,237.80	3,187.07	2,987.85	199.22	15.997		
8,100.00	6,716.52	6,680.52	6,680.52	88.86	115.61	103.07	-1,434.94	4,237.80	3,204.29	3,002.79	201.50	15.902		
8,200.00	6,794.63	6,758.63	6,758.63	90.20	116.97	103.93	-1,434.94	4,237.80	3,222.63	3,018.89	203.74	15.818		
8,300.00	6,872.75	6,836.75	6,836.75	91.53	118.34	104.78	-1,434.94	4,237.80	3,242.06	3,036.12	205.94	15.743		
8,400.00	6,950.87	6,914.87	6,914.87	92.86	119.70	105.63	-1,434.94	4,237.80	3,262.57	3,054.46	208.12	15.677		
8,500.00	7,028.98	7,007.02	6,992.98	94.19	121.31	106.47	-1,434.94	4,237.80	3,284.15	3,073.64	210.51	15.601		
8,600.00	7,107.10	7,071.10	7,071.10	95.52	122.43	107.30	-1,434.94	4,237.80	3,306.76	3,094.38	212.37	15.570		
8,647.91	7,144.53	7,108.53	7,108.53	96.16	123.08	107.70	-1,434.94	4,237.80	3,317.95	3,104.58	213.38	15.550		
8,650.00	7,146.16	7,110.16	7,110.16	96.18	123.11	107.47	-1,434.94	4,237.80	3,318.44	3,105.02	213.42	15.549		
8,700.00	7,185.66	7,149.66	7,149.66	96.84	123.80	101.74	-1,434.94	4,237.80	3,328.07	3,113.61	214.47	15.518		
8,750.00	7,225.78	7,189.78	7,189.78	97.47	124.50	95.55	-1,434.94	4,237.80	3,333.65	3,118.13	215.53	15.467		
8,800.00	7,266.21	7,230.21	7,230.21	98.08	125.20	89.11	-1,434.94	4,237.80	3,335.14	3,118.56	216.59	15.399		
8,850.00	7,306.63	7,270.63	7,270.63	98.64	125.91	82.66	-1,434.94	4,237.80	3,332.53	3,114.90	217.63	15.313		
8,900.00	7,346.75	7,310.75	7,310.75	99.17	126.61	76.46	-1,434.94	4,237.80	3,325.83	3,107.17	218.66	15.210		
8,950.00	7,386.25	7,350.25	7,350.25	99.64	127.30	70.70	-1,434.94	4,237.80	3,315.09	3,095.44	219.65	15.093		
9,000.00	7,424.84	7,388.84	7,388.84	100.06	127.97	65.51	-1,434.94	4,237.80	3,300.37	3,079.77	220.60	14.961		
9,050.00	7,462.22	7,426.22	7,426.22	100.42	128.63	60.98	-1,434.94	4,237.80	3,281.78	3,060.27	221.51	14.816		
9,100.00	7,498.11	7,462.11	7,462.11	100.74	129.25	57.11	-1,434.94	4,237.80	3,259.43	3,037.07	222.36	14.658		
9,150.00	7,532.24	7,503.76	7,496.24	100.99	129.98	53.89	-1,434.94	4,237.80	3,233.48	3,010.20	223.29	14.481		
9,200.00	7,564.34	7,528.34	7,528.34	101.19	130.41	51.27	-1,434.94	4,237.80	3,204.10	2,980.22	223.88	14.311		
9,250.00	7,594.17	7,558.17	7,558.17	101.34	130.93	49.22	-1,434.94	4,237.80	3,171.48	2,946.94	224.54	14.124		
9,300.00	7,621.50	7,585.50	7,585.50	101.45	131.41	47.71	-1,434.94	4,237.80	3,135.85	2,910.72	225.13	13.929		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
9,350.00	7,646.13	7,610.13	7,610.13	101.50	131.84	46.75	-1,434.94	4,237.80	3,097.44	2,871.79	225.65	13.727		
9,400.00	7,667.87	7,631.87	7,631.87	101.51	132.22	46.36	-1,434.94	4,237.80	3,056.52	2,830.42	226.10	13.519		
9,450.00	7,686.55	7,650.55	7,650.55	101.48	132.54	46.62	-1,434.94	4,237.80	3,013.36	2,786.89	226.47	13.306		
9,500.00	7,702.04	7,666.04	7,666.04	101.42	132.81	47.73	-1,434.94	4,237.80	2,968.26	2,741.50	226.77	13.090		
9,550.00	7,714.20	7,678.20	7,678.20	101.33	133.02	50.11	-1,434.94	4,237.80	2,921.54	2,694.55	226.99	12.871		
9,600.00	7,722.96	7,686.96	7,686.96	101.20	133.18	54.76	-1,434.94	4,237.80	2,873.53	2,646.38	227.15	12.650		
9,650.00	7,728.24	7,707.76	7,692.24	101.06	133.54	64.62	-1,434.94	4,237.80	2,824.55	2,597.04	227.51	12.415		
9,699.97	7,730.00	7,706.00	7,694.00	100.90	133.51	90.00	-1,434.94	4,237.80	2,775.01	2,547.53	227.48	12.199		
9,800.00	7,730.00	7,706.00	7,694.00	100.56	133.51	90.00	-1,434.94	4,237.80	2,675.48	2,448.02	227.46	11.762		
9,900.00	7,730.00	7,706.00	7,694.00	100.24	133.51	90.00	-1,434.94	4,237.80	2,576.02	2,348.57	227.45	11.325		
10,000.00	7,730.00	7,706.00	7,694.00	99.93	133.51	90.00	-1,434.94	4,237.80	2,476.61	2,249.17	227.44	10.889		
10,100.00	7,730.00	7,706.00	7,694.00	99.64	133.51	90.00	-1,434.94	4,237.80	2,377.24	2,149.81	227.43	10.453		
10,200.00	7,730.00	7,706.00	7,694.00	99.36	133.51	90.00	-1,434.94	4,237.80	2,277.93	2,050.52	227.41	10.017		
10,300.00	7,730.00	7,706.00	7,694.00	99.09	133.51	90.00	-1,434.94	4,237.80	2,178.68	1,951.29	227.39	9.581		
10,400.00	7,730.00	7,706.00	7,694.00	98.84	133.51	90.00	-1,434.94	4,237.80	2,079.50	1,852.14	227.36	9.146		
10,500.00	7,730.00	7,706.00	7,694.00	98.61	133.51	90.00	-1,434.94	4,237.80	1,980.41	1,753.07	227.34	8.711		
10,600.00	7,730.00	7,706.00	7,694.00	98.39	133.51	90.00	-1,434.94	4,237.80	1,881.41	1,654.11	227.30	8.277		
10,700.00	7,730.00	7,706.00	7,694.00	98.18	133.51	90.00	-1,434.94	4,237.80	1,782.53	1,555.27	227.26	7.843		
10,800.00	7,730.00	7,706.00	7,694.00	97.99	133.51	90.00	-1,434.94	4,237.80	1,683.77	1,456.56	227.21	7.411		
10,900.00	7,730.00	7,706.00	7,694.00	97.81	133.51	90.00	-1,434.94	4,237.80	1,585.18	1,358.03	227.15	6.979		
11,000.00	7,730.00	7,706.00	7,694.00	97.64	133.51	90.00	-1,434.94	4,237.80	1,486.77	1,259.69	227.07	6.547		
11,100.00	7,730.00	7,706.00	7,694.00	97.50	133.51	90.00	-1,434.94	4,237.80	1,388.59	1,161.61	226.98	6.118		
11,200.00	7,730.00	7,706.00	7,694.00	97.36	133.51	90.00	-1,434.94	4,237.80	1,290.68	1,063.83	226.85	5.690		
11,300.00	7,730.00	7,706.00	7,694.00	97.24	133.51	90.00	-1,434.94	4,237.80	1,193.13	966.44	226.69	5.263		
11,400.00	7,730.00	7,706.00	7,694.00	97.14	133.51	90.00	-1,434.94	4,237.80	1,096.01	869.53	226.48	4.839		
11,500.00	7,730.00	7,706.00	7,694.00	97.06	133.51	90.00	-1,434.94	4,237.80	999.47	773.28	226.19	4.419		
11,600.00	7,730.00	7,706.00	7,694.00	96.98	133.51	90.00	-1,434.94	4,237.80	903.67	677.88	225.79	4.002		
11,700.00	7,730.00	7,706.00	7,694.00	96.93	133.51	90.00	-1,434.94	4,237.80	808.90	583.67	225.22	3.592		
11,800.00	7,730.00	7,706.00	7,694.00	96.90	133.51	90.00	-1,434.94	4,237.80	715.54	491.15	224.40	3.189		
11,900.00	7,730.00	7,706.00	7,694.00	96.88	133.51	90.00	-1,434.94	4,237.80	624.25	401.10	223.15	2.797		
12,000.00	7,730.00	7,706.00	7,694.00	96.88	133.51	90.00	-1,434.94	4,237.80	536.08	314.89	221.19	2.424		
12,100.00	7,730.00	7,706.00	7,694.00	96.90	133.51	90.00	-1,434.94	4,237.80	452.85	234.87	217.98	2.078		
12,200.00	7,730.00	7,706.00	7,694.00	96.94	133.51	90.00	-1,434.94	4,237.80	377.84	165.24	212.60	1.777		
12,300.00	7,730.00	7,706.00	7,694.00	97.00	133.51	90.00	-1,434.94	4,237.80	316.94	112.95	204.00	1.554		
12,400.00	7,730.00	7,706.00	7,694.00	97.08	133.51	90.00	-1,434.94	4,237.80	279.54	86.04	193.51	1.445	Level 3	
12,461.55	7,730.00	7,706.00	7,694.00	97.14	133.51	90.00	-1,434.94	4,237.80	272.68	82.97	189.71	1.437	Level 3, CC, ES, SF	
12,500.00	7,730.00	7,706.00	7,694.00	97.18	133.51	90.00	-1,434.94	4,237.80	275.38	85.66	189.72	1.451	Level 3	
12,600.00	7,730.00	7,706.00	7,694.00	97.31	133.51	90.00	-1,434.94	4,237.80	305.82	109.06	196.76	1.554		
12,700.00	7,730.00	7,706.00	7,694.00	97.46	133.51	90.00	-1,434.94	4,237.80	362.24	156.48	205.76	1.760		
12,800.00	7,730.00	7,706.00	7,694.00	97.64	133.51	90.00	-1,434.94	4,237.80	434.63	222.35	212.28	2.047		
12,900.00	7,730.00	7,706.00	7,694.00	97.85	133.51	90.00	-1,434.94	4,237.80	516.33	299.84	216.49	2.385		
13,000.00	7,730.00	7,706.00	7,694.00	98.09	133.51	90.00	-1,434.94	4,237.80	603.56	384.35	219.21	2.753		
13,100.00	7,730.00	7,706.00	7,694.00	98.35	133.51	90.00	-1,434.94	4,237.80	694.25	473.21	221.03	3.141		
13,200.00	7,730.00	7,706.00	7,694.00	98.65	133.51	90.00	-1,434.94	4,237.80	787.19	564.89	222.30	3.541		
13,300.00	7,730.00	7,706.00	7,694.00	98.98	133.51	90.00	-1,434.94	4,237.80	881.68	658.47	223.21	3.950		
13,400.00	7,730.00	7,706.00	7,694.00	99.34	133.51	90.00	-1,434.94	4,237.80	977.27	753.38	223.89	4.365		
13,500.00	7,730.00	7,706.00	7,694.00	99.74	133.51	90.00	-1,434.94	4,237.80	1,073.66	849.25	224.41	4.784		
13,600.00	7,730.00	7,706.00	7,694.00	100.17	133.51	90.00	-1,434.94	4,237.80	1,170.65	945.84	224.82	5.207		
13,700.00	7,730.00	7,706.00	7,694.00	100.65	133.51	90.00	-1,434.94	4,237.80	1,268.12	1,042.97	225.14	5.632		
13,800.00	7,730.00	7,706.00	7,694.00	101.16	133.51	90.00	-1,434.94	4,237.80	1,365.95	1,140.54	225.41	6.060		
13,900.00	7,730.00	7,706.00	7,694.00	101.71	133.51	90.00	-1,434.94	4,237.80	1,464.07	1,238.44	225.63	6.489		
14,000.00	7,730.00	7,706.00	7,694.00	102.30	133.51	90.00	-1,434.94	4,237.80	1,562.43	1,336.62	225.82	6.919		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,706.00	7,694.00	102.93	133.51	90.00	-1,434.94	4,237.80	1,660.99	1,435.01	225.97	7.350		
14,200.00	7,730.00	7,706.00	7,694.00	103.60	133.51	90.00	-1,434.94	4,237.80	1,759.71	1,533.60	226.11	7.783		
14,300.00	7,730.00	7,706.00	7,694.00	104.32	133.51	90.00	-1,434.94	4,237.80	1,858.56	1,632.34	226.23	8.215		
14,400.00	7,730.00	7,706.00	7,694.00	105.07	133.51	90.00	-1,434.94	4,237.80	1,957.54	1,731.20	226.33	8.649		
14,500.00	7,730.00	7,706.00	7,694.00	105.86	133.51	90.00	-1,434.94	4,237.80	2,056.61	1,830.18	226.43	9.083		
14,600.00	7,730.00	7,706.00	7,694.00	106.70	133.51	90.00	-1,434.94	4,237.80	2,155.77	1,929.26	226.51	9.517		
14,700.00	7,730.00	7,706.00	7,694.00	107.57	133.51	90.00	-1,434.94	4,237.80	2,255.00	2,028.41	226.59	9.952		
14,800.00	7,730.00	7,706.00	7,694.00	108.48	133.51	90.00	-1,434.94	4,237.80	2,354.30	2,127.64	226.65	10.387		
14,900.00	7,730.00	7,706.00	7,694.00	109.43	133.51	90.00	-1,434.94	4,237.80	2,453.65	2,226.94	226.72	10.823		
15,000.00	7,730.00	7,706.00	7,694.00	110.42	133.51	90.00	-1,434.94	4,237.80	2,553.06	2,326.28	226.77	11.258		
15,100.00	7,730.00	7,706.00	7,694.00	111.43	133.51	90.00	-1,434.94	4,237.80	2,652.51	2,425.68	226.83	11.694		
15,200.00	7,730.00	7,706.00	7,694.00	112.49	133.51	90.00	-1,434.94	4,237.80	2,752.00	2,525.12	226.88	12.130		
15,300.00	7,730.00	7,706.00	7,694.00	113.57	133.51	90.00	-1,434.94	4,237.80	2,851.52	2,624.60	226.92	12.566		
15,400.00	7,730.00	7,706.00	7,694.00	114.68	133.51	90.00	-1,434.94	4,237.80	2,951.08	2,724.11	226.97	13.002		
15,500.00	7,730.00	7,706.00	7,694.00	115.82	133.51	90.00	-1,434.94	4,237.80	3,050.66	2,823.65	227.01	13.438		
15,600.00	7,730.00	7,706.00	7,694.00	116.99	133.51	90.00	-1,434.94	4,237.80	3,150.28	2,923.23	227.05	13.875		
15,700.00	7,730.00	7,706.00	7,694.00	118.19	133.51	90.00	-1,434.94	4,237.80	3,249.91	3,022.82	227.09	14.311		
15,800.00	7,730.00	7,706.00	7,694.00	119.41	133.51	90.00	-1,434.94	4,237.80	3,349.57	3,122.45	227.12	14.748		
15,900.00	7,730.00	7,706.00	7,694.00	120.65	133.51	90.00	-1,434.94	4,237.80	3,449.25	3,222.09	227.16	15.184		
16,000.00	7,730.00	7,706.00	7,694.00	121.91	133.51	90.00	-1,434.94	4,237.80	3,548.94	3,321.75	227.19	15.621		
16,100.00	7,730.00	7,706.00	7,694.00	123.20	133.51	90.00	-1,434.94	4,237.80	3,648.66	3,421.43	227.23	16.057		
16,200.00	7,730.00	7,706.00	7,694.00	124.50	133.51	90.00	-1,434.94	4,237.80	3,748.38	3,521.13	227.26	16.494		
16,300.00	7,730.00	7,706.00	7,694.00	125.82	133.51	90.00	-1,434.94	4,237.80	3,848.13	3,620.84	227.29	16.931		
16,400.00	7,730.00	7,706.00	7,694.00	127.16	133.51	90.00	-1,434.94	4,237.80	3,947.88	3,720.56	227.32	17.367		
16,500.00	7,730.00	7,706.00	7,694.00	128.52	133.51	90.00	-1,434.94	4,237.80	4,047.65	3,820.30	227.35	17.804		
16,600.00	7,730.00	7,706.00	7,694.00	129.89	133.51	90.00	-1,434.94	4,237.80	4,147.43	3,920.05	227.38	18.240		
16,700.00	7,730.00	7,706.00	7,694.00	131.27	133.51	90.00	-1,434.94	4,237.80	4,247.21	4,019.81	227.40	18.677		
16,800.00	7,730.00	7,706.00	7,694.00	132.67	133.51	90.00	-1,434.94	4,237.80	4,347.01	4,119.58	227.43	19.113		
16,900.00	7,730.00	7,706.00	7,694.00	134.09	133.51	90.00	-1,434.94	4,237.80	4,446.82	4,219.36	227.46	19.550		
17,000.00	7,730.00	7,706.00	7,694.00	135.51	133.51	90.00	-1,434.94	4,237.80	4,546.64	4,319.15	227.49	19.986		
17,100.00	7,730.00	7,706.00	7,694.00	136.95	133.51	90.00	-1,434.94	4,237.80	4,646.46	4,418.95	227.51	20.423		
17,200.00	7,730.00	7,706.00	7,694.00	138.40	133.51	90.00	-1,434.94	4,237.80	4,746.29	4,518.75	227.54	20.859		
17,300.00	7,730.00	7,706.00	7,694.00	139.85	133.51	90.00	-1,434.94	4,237.80	4,846.13	4,618.56	227.57	21.295		
17,400.00	7,730.00	7,706.00	7,694.00	141.32	133.51	90.00	-1,434.94	4,237.80	4,945.97	4,718.38	227.59	21.732		
17,500.00	7,730.00	7,706.00	7,694.00	142.80	133.51	90.00	-1,434.94	4,237.80	5,045.83	4,818.21	227.62	22.168		
17,600.00	7,730.00	7,706.00	7,694.00	144.28	133.51	90.00	-1,434.94	4,237.80	5,145.68	4,918.04	227.65	22.604		
17,700.00	7,730.00	7,706.00	7,694.00	145.78	133.51	90.00	-1,434.94	4,237.80	5,245.54	5,017.87	227.67	23.040		
17,800.00	7,730.00	7,706.00	7,694.00	147.28	133.51	90.00	-1,434.94	4,237.80	5,345.41	5,117.71	227.70	23.476		
17,900.00	7,730.00	7,706.00	7,694.00	148.79	133.51	90.00	-1,434.94	4,237.80	5,445.28	5,217.56	227.72	23.912		
18,000.00	7,730.00	7,706.00	7,694.00	150.31	133.51	90.00	-1,434.94	4,237.80	5,545.16	5,317.41	227.75	24.347		
18,100.00	7,730.00	7,706.00	7,694.00	151.83	133.51	90.00	-1,434.94	4,237.80	5,645.04	5,417.27	227.78	24.783		
18,200.00	7,730.00	7,706.00	7,694.00	153.37	133.51	90.00	-1,434.94	4,237.80	5,744.93	5,517.12	227.80	25.219		
18,300.00	7,730.00	7,706.00	7,694.00	154.90	133.51	90.00	-1,434.94	4,237.80	5,844.82	5,616.99	227.83	25.654		
18,400.00	7,730.00	7,706.00	7,694.00	156.45	133.51	90.00	-1,434.94	4,237.80	5,944.71	5,716.85	227.85	26.090		
18,500.00	7,730.00	7,706.00	7,694.00	158.00	133.51	90.00	-1,434.94	4,237.80	6,044.61	5,816.72	227.88	26.525		
18,600.00	7,730.00	7,706.00	7,694.00	159.55	133.51	90.00	-1,434.94	4,237.80	6,144.51	5,916.60	227.91	26.961		
18,700.00	7,730.00	7,706.00	7,694.00	161.11	133.51	90.00	-1,434.94	4,237.80	6,244.41	6,016.48	227.93	27.396		
18,800.00	7,730.00	7,706.00	7,694.00	162.68	133.51	90.00	-1,434.94	4,237.80	6,344.32	6,116.36	227.96	27.831		
18,900.00	7,730.00	7,706.00	7,694.00	164.25	133.51	90.00	-1,434.94	4,237.80	6,444.22	6,216.24	227.99	28.266		
19,000.00	7,730.00	7,706.00	7,694.00	165.83	133.51	90.00	-1,434.94	4,237.80	6,544.14	6,316.12	228.01	28.701		
19,100.00	7,730.00	7,706.00	7,694.00	167.41	133.51	90.00	-1,434.94	4,237.80	6,644.05	6,416.01	228.04	29.135		
19,200.00	7,730.00	7,706.00	7,694.00	168.99	133.51	90.00	-1,434.94	4,237.80	6,743.97	6,515.90	228.07	29.570		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 33-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	7,706.00	7,694.00	170.58	133.51	90.00	-1,434.94	4,237.80	6,843.89	6,615.79	228.09	30.005	
19,400.00	7,730.00	7,706.00	7,694.00	172.17	133.51	90.00	-1,434.94	4,237.80	6,943.81	6,715.69	228.12	30.439	
19,430.54	7,730.00	7,706.00	7,694.00	172.66	133.51	90.00	-1,434.94	4,237.80	6,974.32	6,746.19	228.13	30.572	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	124.07	-3,055.97	4,518.12	5,454.76					
100.00	100.00	55.00	55.00	0.13	0.42	124.07	-3,055.97	4,518.12	5,454.57	5,454.01	0.56	9,796.333		
200.00	200.00	155.00	155.00	0.49	1.73	124.07	-3,055.97	4,518.12	5,454.57	5,452.35	2.22	2,456.156		
300.00	300.00	255.00	255.00	0.85	3.47	124.07	-3,055.97	4,518.12	5,454.57	5,450.25	4.32	1,261.296		
400.00	400.00	355.00	355.00	1.21	5.22	124.07	-3,055.97	4,518.12	5,454.57	5,448.14	6.43	848.514		
500.00	500.00	455.00	455.00	1.57	6.96	124.07	-3,055.97	4,518.12	5,454.57	5,446.04	8.53	639.294		
600.00	599.98	554.98	554.98	1.92	8.71	58.75	-3,055.97	4,518.12	5,453.66	5,443.03	10.63	512.998		
700.00	699.84	654.84	654.84	2.28	10.45	58.85	-3,055.97	4,518.12	5,450.95	5,438.22	12.73	428.291		
800.00	799.45	754.45	754.45	2.64	12.19	59.00	-3,055.97	4,518.12	5,446.44	5,431.61	14.83	367.355		
900.00	898.70	853.70	853.70	3.02	13.92	59.22	-3,055.97	4,518.12	5,440.15	5,423.22	16.93	321.351		
1,000.00	997.47	952.47	952.47	3.41	15.65	59.50	-3,055.97	4,518.12	5,432.10	5,413.06	19.04	285.328		
1,100.00	1,095.62	1,050.62	1,050.62	3.84	17.36	59.84	-3,055.97	4,518.12	5,422.33	5,401.18	21.16	256.301		
1,200.00	1,193.06	1,148.06	1,148.06	4.29	19.06	60.24	-3,055.97	4,518.12	5,410.88	5,387.59	23.29	232.366		
1,300.00	1,289.64	1,244.64	1,244.64	4.78	20.75	60.71	-3,055.97	4,518.12	5,397.79	5,372.36	25.43	212.253		
1,400.00	1,385.27	1,340.27	1,340.27	5.32	22.41	61.23	-3,055.97	4,518.12	5,383.11	5,355.51	27.59	195.083		
1,500.00	1,479.82	1,434.82	1,434.82	5.90	24.06	61.81	-3,055.97	4,518.12	5,366.90	5,337.13	29.78	180.231		
1,600.00	1,573.17	1,528.17	1,528.17	6.53	25.69	62.45	-3,055.97	4,518.12	5,349.24	5,317.25	31.99	167.238		
1,700.00	1,665.21	1,620.21	1,620.21	7.23	27.30	63.14	-3,055.97	4,518.12	5,330.19	5,295.97	34.22	155.761		
1,800.00	1,755.84	1,710.84	1,710.84	7.98	28.88	63.89	-3,055.97	4,518.12	5,309.83	5,273.34	36.48	145.538		
1,900.00	1,844.94	1,800.06	1,799.94	8.80	30.44	64.69	-3,055.97	4,518.12	5,288.24	5,249.46	38.78	136.360		
2,000.00	1,932.39	1,887.39	1,887.39	9.68	31.96	65.54	-3,055.97	4,518.12	5,265.53	5,224.42	41.11	128.091		
2,100.00	2,018.11	1,973.11	1,973.11	10.63	33.46	66.44	-3,055.97	4,518.12	5,241.78	5,198.31	43.47	120.580		
2,200.00	2,101.97	2,056.97	2,056.97	11.65	34.92	67.39	-3,055.97	4,518.12	5,217.11	5,171.24	45.87	113.732		
2,300.00	2,183.88	2,138.88	2,138.88	12.74	36.35	68.37	-3,055.97	4,518.12	5,191.61	5,143.30	48.31	107.464		
2,400.00	2,263.74	2,218.74	2,218.74	13.90	37.75	69.39	-3,055.97	4,518.12	5,165.41	5,114.63	50.79	101.707		
2,431.61	2,288.54	2,243.54	2,243.54	14.29	38.18	69.72	-3,055.97	4,518.12	5,157.00	5,105.43	51.58	99.985		
2,500.00	2,341.97	2,303.04	2,296.97	15.13	39.22	70.08	-3,055.97	4,518.12	5,138.89	5,085.49	53.41	96.225		
2,600.00	2,420.08	2,375.08	2,375.08	16.37	40.48	70.61	-3,055.97	4,518.12	5,112.93	5,057.09	55.84	91.564		
2,700.00	2,498.20	2,453.20	2,453.20	17.63	41.84	71.15	-3,055.97	4,518.12	5,087.61	5,029.21	58.40	87.109		
2,800.00	2,576.32	2,531.32	2,531.32	18.89	43.20	71.69	-3,055.97	4,518.12	5,062.93	5,001.94	60.99	83.011		
2,900.00	2,654.43	2,609.43	2,609.43	20.17	44.57	72.23	-3,055.97	4,518.12	5,038.91	4,975.31	63.60	79.234		
3,000.00	2,732.55	2,687.55	2,687.55	21.45	45.93	72.78	-3,055.97	4,518.12	5,015.54	4,949.33	66.22	75.745		
3,100.00	2,810.67	2,765.67	2,765.67	22.74	47.29	73.32	-3,055.97	4,518.12	4,992.85	4,924.00	68.85	72.515		
3,200.00	2,888.78	2,843.78	2,843.78	24.03	48.66	73.88	-3,055.97	4,518.12	4,970.84	4,899.33	71.50	69.519		
3,300.00	2,966.90	2,921.90	2,921.90	25.33	50.02	74.43	-3,055.97	4,518.12	4,949.52	4,875.35	74.17	66.736		
3,400.00	3,045.02	3,000.02	3,000.02	26.63	51.38	74.99	-3,055.97	4,518.12	4,928.89	4,852.05	76.84	64.145		
3,500.00	3,123.13	3,078.13	3,078.13	27.94	52.75	75.55	-3,055.97	4,518.12	4,908.97	4,829.45	79.53	61.729		
3,600.00	3,201.25	3,156.25	3,156.25	29.24	54.11	76.11	-3,055.97	4,518.12	4,889.77	4,807.55	82.22	59.472		
3,700.00	3,279.37	3,234.37	3,234.37	30.55	55.47	76.68	-3,055.97	4,518.12	4,871.30	4,786.37	84.92	57.361		
3,800.00	3,357.49	3,312.49	3,312.49	31.86	56.84	77.25	-3,055.97	4,518.12	4,853.55	4,765.92	87.63	55.384		
3,900.00	3,435.60	3,409.40	3,390.60	33.18	58.53	77.82	-3,055.97	4,518.12	4,836.55	4,745.87	90.68	53.336		
4,000.00	3,513.72	3,468.72	3,468.72	34.49	59.56	78.39	-3,055.97	4,518.12	4,820.30	4,727.22	93.08	51.787		
4,100.00	3,591.84	3,546.84	3,546.84	35.81	60.93	78.97	-3,055.97	4,518.12	4,804.80	4,708.99	95.81	50.150		
4,200.00	3,669.95	3,624.95	3,624.95	37.12	62.29	79.55	-3,055.97	4,518.12	4,790.07	4,691.52	98.55	48.608		
4,300.00	3,748.07	3,703.07	3,703.07	38.44	63.65	80.13	-3,055.97	4,518.12	4,776.10	4,674.82	101.28	47.155		
4,400.00	3,826.19	3,781.19	3,781.19	39.76	65.02	80.71	-3,055.97	4,518.12	4,762.92	4,658.89	104.03	45.785		
4,500.00	3,904.30	3,859.30	3,859.30	41.08	66.38	81.30	-3,055.97	4,518.12	4,750.52	4,643.74	106.77	44.491		
4,600.00	3,982.42	3,937.42	3,937.42	42.40	67.74	81.88	-3,055.97	4,518.12	4,738.90	4,629.38	109.52	43.269		
4,700.00	4,060.54	4,015.54	4,015.54	43.72	69.11	82.47	-3,055.97	4,518.12	4,728.09	4,615.82	112.27	42.113		
4,800.00	4,138.66	4,106.34	4,093.66	45.05	70.69	83.06	-3,055.97	4,518.12	4,718.07	4,602.83	115.24	40.940		
4,900.00	4,216.77	4,171.77	4,171.77	46.37	71.83	83.65	-3,055.97	4,518.12	4,708.87	4,591.10	117.77	39.983		
5,000.00	4,294.89	4,249.89	4,249.89	47.69	73.20	84.24	-3,055.97	4,518.12	4,700.47	4,579.95	120.52	39.002		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,328.01	4,328.01	49.02	74.56	84.84	-3,055.97	4,518.12	4,692.89	4,569.62	123.27	38.072		
5,200.00	4,451.12	4,406.12	4,406.12	50.34	75.92	85.43	-3,055.97	4,518.12	4,686.13	4,560.12	126.01	37.189		
5,300.00	4,529.24	4,484.24	4,484.24	51.67	77.29	86.03	-3,055.97	4,518.12	4,680.19	4,551.44	128.75	36.351		
5,400.00	4,607.36	4,562.36	4,562.36	52.99	78.65	86.63	-3,055.97	4,518.12	4,675.08	4,543.59	131.49	35.556		
5,500.00	4,685.47	4,640.47	4,640.47	54.32	80.01	87.22	-3,055.97	4,518.12	4,670.80	4,536.58	134.22	34.800		
5,600.00	4,763.59	4,718.59	4,718.59	55.64	81.38	87.82	-3,055.97	4,518.12	4,667.34	4,530.40	136.94	34.082		
5,700.00	4,841.71	4,803.29	4,796.71	56.97	82.86	88.42	-3,055.97	4,518.12	4,664.72	4,524.95	139.78	33.372		
5,800.00	4,919.83	4,874.83	4,874.83	58.30	84.10	89.02	-3,055.97	4,518.12	4,662.94	4,520.56	142.38	32.750		
5,900.00	4,997.94	4,952.94	4,952.94	59.62	85.47	89.62	-3,055.97	4,518.12	4,661.99	4,516.91	145.08	32.133		
5,963.48	5,047.53	5,002.53	5,002.53	60.47	86.33	90.00	-3,055.97	4,518.12	4,661.82	4,515.03	146.80	31.757		
6,000.00	5,076.06	5,031.06	5,031.06	60.95	86.83	90.22	-3,055.97	4,518.12	4,661.88	4,514.10	147.78	31.546		
6,100.00	5,154.18	5,109.18	5,109.18	62.28	88.19	90.82	-3,055.97	4,518.12	4,662.60	4,512.13	150.47	30.987		
6,200.00	5,232.29	5,187.29	5,187.29	63.61	89.56	91.42	-3,055.97	4,518.12	4,664.16	4,511.01	153.15	30.455		
6,300.00	5,310.41	5,265.41	5,265.41	64.93	90.92	92.02	-3,055.97	4,518.12	4,666.56	4,510.74	155.82	29.949		
6,400.00	5,388.53	5,343.53	5,343.53	66.26	92.28	92.61	-3,055.97	4,518.12	4,669.78	4,511.31	158.48	29.467		
6,500.00	5,466.64	5,421.64	5,421.64	67.59	93.65	93.21	-3,055.97	4,518.12	4,673.84	4,512.72	161.12	29.008		
6,600.00	5,544.76	5,500.24	5,499.76	68.92	95.02	93.81	-3,055.97	4,518.12	4,678.73	4,514.97	163.77	28.570		
6,700.00	5,622.88	5,577.88	5,577.88	70.25	96.37	94.41	-3,055.97	4,518.12	4,684.45	4,518.07	166.38	28.155		
6,800.00	5,701.00	5,656.00	5,656.00	71.58	97.74	95.00	-3,055.97	4,518.12	4,690.99	4,522.00	168.99	27.759		
6,900.00	5,779.11	5,734.11	5,734.11	72.91	99.10	95.60	-3,055.97	4,518.12	4,698.35	4,526.76	171.58	27.382		
7,000.00	5,857.23	5,812.23	5,812.23	74.23	100.47	96.19	-3,055.97	4,518.12	4,706.52	4,532.36	174.17	27.023		
7,100.00	5,935.35	5,909.65	5,890.35	75.56	102.17	96.78	-3,055.97	4,518.12	4,715.51	4,538.44	177.07	26.630		
7,200.00	6,013.46	5,968.46	5,968.46	76.89	103.19	97.37	-3,055.97	4,518.12	4,725.31	4,546.02	179.29	26.356		
7,300.00	6,091.58	6,046.58	6,046.58	78.22	104.56	97.96	-3,055.97	4,518.12	4,735.91	4,554.08	181.83	26.046		
7,400.00	6,169.70	6,124.70	6,124.70	79.55	105.92	98.55	-3,055.97	4,518.12	4,747.31	4,562.96	184.35	25.752		
7,500.00	6,247.81	6,202.81	6,202.81	80.88	107.28	99.13	-3,055.97	4,518.12	4,759.50	4,572.64	186.86	25.471		
7,600.00	6,325.93	6,280.93	6,280.93	82.21	108.65	99.72	-3,055.97	4,518.12	4,772.47	4,583.12	189.35	25.205		
7,700.00	6,404.05	6,359.05	6,359.05	83.54	110.01	100.30	-3,055.97	4,518.12	4,786.23	4,594.40	191.82	24.951		
7,800.00	6,482.17	6,437.17	6,437.17	84.87	111.37	100.88	-3,055.97	4,518.12	4,800.75	4,606.47	194.28	24.710		
7,900.00	6,560.28	6,515.28	6,515.28	86.20	112.74	101.45	-3,055.97	4,518.12	4,816.05	4,619.32	196.72	24.481		
8,000.00	6,638.40	6,606.60	6,593.40	87.53	114.33	102.03	-3,055.97	4,518.12	4,832.10	4,632.72	199.38	24.236		
8,100.00	6,716.52	6,671.52	6,671.52	88.86	115.46	102.60	-3,055.97	4,518.12	4,848.90	4,647.34	201.56	24.057		
8,200.00	6,794.63	6,749.63	6,749.63	90.20	116.83	103.17	-3,055.97	4,518.12	4,866.44	4,662.49	203.95	23.861		
8,300.00	6,872.75	6,827.75	6,827.75	91.53	118.19	103.74	-3,055.97	4,518.12	4,884.72	4,678.40	206.32	23.675		
8,400.00	6,950.87	6,905.87	6,905.87	92.86	119.55	104.30	-3,055.97	4,518.12	4,903.73	4,695.05	208.68	23.499		
8,500.00	7,028.98	6,983.98	6,983.98	94.19	120.92	104.86	-3,055.97	4,518.12	4,923.45	4,712.43	211.02	23.332		
8,600.00	7,107.10	7,062.10	7,062.10	95.52	122.28	105.42	-3,055.97	4,518.12	4,943.89	4,730.54	213.34	23.173		
8,647.91	7,144.53	7,100.47	7,099.53	96.16	122.95	105.69	-3,055.97	4,518.12	4,953.92	4,739.46	214.47	23.099		
8,650.00	7,146.16	7,101.16	7,101.16	96.18	122.96	105.45	-3,055.97	4,518.12	4,954.36	4,739.86	214.50	23.097		
8,700.00	7,185.66	7,140.66	7,140.66	96.84	123.65	99.62	-3,055.97	4,518.12	4,962.70	4,747.04	215.66	23.011		
8,750.00	7,225.78	7,180.78	7,180.78	97.47	124.35	93.31	-3,055.97	4,518.12	4,966.90	4,750.06	216.84	22.906		
8,800.00	7,266.21	7,221.21	7,221.21	98.08	125.06	86.73	-3,055.97	4,518.12	4,966.92	4,748.91	218.01	22.783		
8,850.00	7,306.63	7,261.63	7,261.63	98.64	125.76	80.13	-3,055.97	4,518.12	4,962.76	4,743.59	219.17	22.643		
8,900.00	7,346.75	7,301.75	7,301.75	99.17	126.46	73.75	-3,055.97	4,518.12	4,954.46	4,734.14	220.31	22.488		
8,950.00	7,386.25	7,341.25	7,341.25	99.64	127.15	67.78	-3,055.97	4,518.12	4,942.05	4,720.63	221.42	22.320		
9,000.00	7,424.84	7,379.84	7,379.84	100.06	127.83	62.37	-3,055.97	4,518.12	4,925.63	4,703.14	222.49	22.139		
9,050.00	7,462.22	7,417.22	7,417.22	100.42	128.48	57.58	-3,055.97	4,518.12	4,905.30	4,681.80	223.50	21.947		
9,100.00	7,498.11	7,453.11	7,453.11	100.74	129.10	53.40	-3,055.97	4,518.12	4,881.20	4,656.74	224.46	21.746		
9,150.00	7,532.24	7,487.24	7,487.24	100.99	129.70	49.81	-3,055.97	4,518.12	4,853.50	4,628.14	225.35	21.537		
9,200.00	7,564.34	7,519.34	7,519.34	101.19	130.26	46.75	-3,055.97	4,518.12	4,822.39	4,596.21	226.18	21.321		
9,250.00	7,594.17	7,549.17	7,549.17	101.34	130.78	44.17	-3,055.97	4,518.12	4,788.08	4,561.14	226.93	21.099		
9,300.00	7,621.50	7,576.50	7,576.50	101.45	131.26	42.02	-3,055.97	4,518.12	4,750.81	4,523.20	227.61	20.873		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,601.13	7,601.13	101.50	131.69	40.23	-3,055.97	4,518.12	4,710.84	4,482.64	228.21	20.643		
9,400.00	7,667.87	7,622.87	7,622.87	101.51	132.07	38.77	-3,055.97	4,518.12	4,668.47	4,439.75	228.72	20.411		
9,450.00	7,686.55	7,641.55	7,641.55	101.48	132.39	37.59	-3,055.97	4,518.12	4,623.98	4,394.83	229.15	20.178		
9,500.00	7,702.04	7,657.04	7,657.04	101.42	132.66	36.66	-3,055.97	4,518.12	4,577.71	4,348.20	229.51	19.946		
9,550.00	7,714.20	7,669.20	7,669.20	101.33	132.88	35.92	-3,055.97	4,518.12	4,529.98	4,300.21	229.78	19.715		
9,600.00	7,722.96	7,677.96	7,677.96	101.20	133.03	35.27	-3,055.97	4,518.12	4,481.15	4,251.19	229.97	19.486		
9,650.00	7,728.24	7,683.24	7,683.24	101.06	133.12	34.29	-3,055.97	4,518.12	4,431.58	4,201.51	230.08	19.261		
9,699.97	7,730.00	7,685.00	7,685.00	100.90	133.15	-90.00	-3,055.97	4,518.12	4,381.67	4,151.56	230.11	19.042		
9,800.00	7,730.00	7,685.00	7,685.00	100.56	133.15	-90.00	-3,055.97	4,518.12	4,281.64	4,051.54	230.11	18.607		
9,900.00	7,730.00	7,685.00	7,685.00	100.24	133.15	-90.00	-3,055.97	4,518.12	4,181.64	3,951.54	230.10	18.173		
10,000.00	7,730.00	7,685.00	7,685.00	99.93	133.15	-90.00	-3,055.97	4,518.12	4,081.64	3,851.55	230.10	17.739		
10,100.00	7,730.00	7,685.00	7,685.00	99.64	133.15	-90.00	-3,055.97	4,518.12	3,981.64	3,751.55	230.09	17.305		
10,200.00	7,730.00	7,685.00	7,685.00	99.36	133.15	-90.00	-3,055.97	4,518.12	3,881.65	3,651.56	230.09	16.870		
10,300.00	7,730.00	7,685.00	7,685.00	99.09	133.15	-90.00	-3,055.97	4,518.12	3,781.65	3,551.56	230.08	16.436		
10,400.00	7,730.00	7,685.00	7,685.00	98.84	133.15	-90.00	-3,055.97	4,518.12	3,681.65	3,451.57	230.08	16.002		
10,500.00	7,730.00	7,685.00	7,685.00	98.61	133.15	-90.00	-3,055.97	4,518.12	3,581.65	3,351.57	230.08	15.567		
10,600.00	7,730.00	7,685.00	7,685.00	98.39	133.15	-90.00	-3,055.97	4,518.12	3,481.65	3,251.58	230.07	15.133		
10,700.00	7,730.00	7,685.00	7,685.00	98.18	133.15	-90.00	-3,055.97	4,518.12	3,381.65	3,151.58	230.07	14.698		
10,800.00	7,730.00	7,685.00	7,685.00	97.99	133.15	-90.00	-3,055.97	4,518.12	3,281.65	3,051.58	230.07	14.264		
10,900.00	7,730.00	7,685.00	7,685.00	97.81	133.15	-90.00	-3,055.97	4,518.12	3,181.65	2,951.59	230.06	13.830		
11,000.00	7,730.00	7,685.00	7,685.00	97.64	133.15	-90.00	-3,055.97	4,518.12	3,081.65	2,851.59	230.06	13.395		
11,100.00	7,730.00	7,685.00	7,685.00	97.50	133.15	-90.00	-3,055.97	4,518.12	2,981.65	2,751.60	230.06	12.961		
11,200.00	7,730.00	7,685.00	7,685.00	97.36	133.15	-90.00	-3,055.97	4,518.12	2,881.65	2,651.60	230.05	12.526		
11,300.00	7,730.00	7,685.00	7,685.00	97.24	133.15	-90.00	-3,055.97	4,518.12	2,781.65	2,551.61	230.05	12.092		
11,400.00	7,730.00	7,685.00	7,685.00	97.14	133.15	-90.00	-3,055.97	4,518.12	2,681.65	2,451.61	230.05	11.657		
11,500.00	7,730.00	7,685.00	7,685.00	97.06	133.15	-90.00	-3,055.97	4,518.12	2,581.66	2,351.61	230.04	11.223		
11,600.00	7,730.00	7,685.00	7,685.00	96.98	133.15	-90.00	-3,055.97	4,518.12	2,481.66	2,251.62	230.04	10.788		
11,700.00	7,730.00	7,685.00	7,685.00	96.93	133.15	-90.00	-3,055.97	4,518.12	2,381.66	2,151.62	230.04	10.353		
11,800.00	7,730.00	7,685.00	7,685.00	96.90	133.15	-90.00	-3,055.97	4,518.12	2,281.66	2,051.63	230.03	9.919		
11,900.00	7,730.00	7,685.00	7,685.00	96.88	133.15	-90.00	-3,055.97	4,518.12	2,181.66	1,951.64	230.03	9.484		
12,000.00	7,730.00	7,685.00	7,685.00	96.88	133.15	-90.00	-3,055.97	4,518.12	2,081.66	1,851.64	230.02	9.050		
12,100.00	7,730.00	7,685.00	7,685.00	96.90	133.15	-90.00	-3,055.97	4,518.12	1,981.67	1,751.65	230.02	8.615		
12,200.00	7,730.00	7,685.00	7,685.00	96.94	133.15	-90.00	-3,055.97	4,518.12	1,881.67	1,651.66	230.01	8.181		
12,300.00	7,730.00	7,685.00	7,685.00	97.00	133.15	-90.00	-3,055.97	4,518.12	1,781.67	1,551.66	230.01	7.746		
12,400.00	7,730.00	7,685.00	7,685.00	97.08	133.15	-90.00	-3,055.97	4,518.12	1,681.67	1,451.67	230.00	7.312		
12,500.00	7,730.00	7,685.00	7,685.00	97.18	133.15	-90.00	-3,055.97	4,518.12	1,581.68	1,351.69	229.99	6.877		
12,600.00	7,730.00	7,685.00	7,685.00	97.31	133.15	-90.00	-3,055.97	4,518.12	1,481.68	1,251.70	229.98	6.443		
12,700.00	7,730.00	7,685.00	7,685.00	97.46	133.15	-90.00	-3,055.97	4,518.12	1,381.69	1,151.71	229.97	6.008		
12,800.00	7,730.00	7,685.00	7,685.00	97.64	133.15	-90.00	-3,055.97	4,518.12	1,281.69	1,051.73	229.96	5.574		
12,900.00	7,730.00	7,685.00	7,685.00	97.85	133.15	-90.00	-3,055.97	4,518.12	1,181.70	951.75	229.94	5.139		
13,000.00	7,730.00	7,685.00	7,685.00	98.09	133.15	-90.00	-3,055.97	4,518.12	1,081.70	851.78	229.92	4.705		
13,100.00	7,730.00	7,685.00	7,685.00	98.35	133.15	-90.00	-3,055.97	4,518.12	981.71	751.81	229.90	4.270		
13,200.00	7,730.00	7,685.00	7,685.00	98.65	133.15	-90.00	-3,055.97	4,518.12	881.72	651.86	229.86	3.836		
13,300.00	7,730.00	7,685.00	7,685.00	98.98	133.15	-90.00	-3,055.97	4,518.12	781.73	551.91	229.82	3.401		
13,400.00	7,730.00	7,685.00	7,685.00	99.34	133.15	-90.00	-3,055.97	4,518.12	681.75	451.98	229.77	2.967		
13,500.00	7,730.00	7,685.00	7,685.00	99.74	133.15	-90.00	-3,055.97	4,518.12	581.77	352.08	229.69	2.533		
13,600.00	7,730.00	7,685.00	7,685.00	100.17	133.15	-90.00	-3,055.97	4,518.12	481.80	252.22	229.58	2.099		
13,700.00	7,730.00	7,685.00	7,685.00	100.65	133.15	-90.00	-3,055.97	4,518.12	381.85	152.44	229.41	1.665		
13,800.00	7,730.00	7,685.00	7,685.00	101.16	133.15	-90.00	-3,055.97	4,518.12	281.93	52.83	229.10	1.231 Level 2		
13,900.00	7,730.00	7,685.00	7,685.00	101.71	133.15	-90.00	-3,055.97	4,518.12	182.10	-46.33	228.43	0.797 Level 1		
14,000.00	7,730.00	7,685.00	7,685.00	102.30	133.15	-90.00	-3,055.97	4,518.12	82.67	-143.26	225.93	0.366 Level 1		
14,081.62	7,730.00	7,685.00	7,685.00	102.81	133.15	-90.00	-3,055.97	4,518.12	13.12	-196.63	209.75	0.063 Level 1, CC, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,685.00	7,685.00	102.93	133.15	-90.00	-3,055.97	4,518.12	22.58	-212.83	235.41	0.096	Level 1, ES	
14,200.00	7,730.00	7,685.00	7,685.00	103.60	133.15	-90.00	-3,055.97	4,518.12	119.10	-113.60	232.70	0.512		
14,300.00	7,730.00	7,685.00	7,685.00	104.32	133.15	-90.00	-3,055.97	4,518.12	218.77	-12.92	231.69	0.944		
14,400.00	7,730.00	7,685.00	7,685.00	105.07	133.15	-90.00	-3,055.97	4,518.12	318.65	87.37	231.28	1.378		
14,500.00	7,730.00	7,685.00	7,685.00	105.86	133.15	-90.00	-3,055.97	4,518.12	418.58	187.51	231.07	1.812		
14,600.00	7,730.00	7,685.00	7,685.00	106.70	133.15	-90.00	-3,055.97	4,518.12	518.54	287.60	230.94	2.245		
14,700.00	7,730.00	7,685.00	7,685.00	107.57	133.15	-90.00	-3,055.97	4,518.12	618.52	387.66	230.85	2.679		
14,800.00	7,730.00	7,685.00	7,685.00	108.48	133.15	-90.00	-3,055.97	4,518.12	718.50	487.70	230.80	3.113		
14,900.00	7,730.00	7,685.00	7,685.00	109.43	133.15	-90.00	-3,055.97	4,518.12	818.48	587.73	230.75	3.547		
15,000.00	7,730.00	7,685.00	7,685.00	110.42	133.15	-90.00	-3,055.97	4,518.12	918.47	687.75	230.72	3.981		
15,100.00	7,730.00	7,685.00	7,685.00	111.43	133.15	-90.00	-3,055.97	4,518.12	1,018.46	787.76	230.70	4.415		
15,200.00	7,730.00	7,685.00	7,685.00	112.49	133.15	-90.00	-3,055.97	4,518.12	1,118.45	887.77	230.69	4.848		
15,300.00	7,730.00	7,685.00	7,685.00	113.57	133.15	-90.00	-3,055.97	4,518.12	1,218.45	987.77	230.67	5.282		
15,400.00	7,730.00	7,685.00	7,685.00	114.68	133.15	-90.00	-3,055.97	4,518.12	1,318.44	1,087.78	230.67	5.716		
15,500.00	7,730.00	7,685.00	7,685.00	115.82	133.15	-90.00	-3,055.97	4,518.12	1,418.44	1,187.78	230.66	6.149		
15,600.00	7,730.00	7,685.00	7,685.00	116.99	133.15	-90.00	-3,055.97	4,518.12	1,518.43	1,287.77	230.66	6.583		
15,700.00	7,730.00	7,685.00	7,685.00	118.19	133.15	-90.00	-3,055.97	4,518.12	1,618.43	1,387.77	230.66	7.017		
15,800.00	7,730.00	7,685.00	7,685.00	119.41	133.15	-90.00	-3,055.97	4,518.12	1,718.43	1,487.77	230.66	7.450		
15,900.00	7,730.00	7,685.00	7,685.00	120.65	133.15	-90.00	-3,055.97	4,518.12	1,818.42	1,587.76	230.67	7.883		
16,000.00	7,730.00	7,685.00	7,685.00	121.91	133.15	-90.00	-3,055.97	4,518.12	1,918.42	1,687.75	230.67	8.317		
16,100.00	7,730.00	7,685.00	7,685.00	123.20	133.15	-90.00	-3,055.97	4,518.12	2,018.42	1,787.74	230.68	8.750		
16,200.00	7,730.00	7,685.00	7,685.00	124.50	133.15	-90.00	-3,055.97	4,518.12	2,118.42	1,887.74	230.68	9.183		
16,300.00	7,730.00	7,685.00	7,685.00	125.82	133.15	-90.00	-3,055.97	4,518.12	2,218.42	1,987.73	230.69	9.616		
16,400.00	7,730.00	7,685.00	7,685.00	127.16	133.15	-90.00	-3,055.97	4,518.12	2,318.41	2,087.72	230.70	10.050		
16,500.00	7,730.00	7,685.00	7,685.00	128.52	133.15	-90.00	-3,055.97	4,518.12	2,418.41	2,187.71	230.71	10.483		
16,600.00	7,730.00	7,685.00	7,685.00	129.89	133.15	-90.00	-3,055.97	4,518.12	2,518.41	2,287.69	230.72	10.916		
16,700.00	7,730.00	7,685.00	7,685.00	131.27	133.15	-90.00	-3,055.97	4,518.12	2,618.41	2,387.68	230.73	11.348		
16,800.00	7,730.00	7,685.00	7,685.00	132.67	133.15	-90.00	-3,055.97	4,518.12	2,718.41	2,487.67	230.74	11.781		
16,900.00	7,730.00	7,685.00	7,685.00	134.09	133.15	-90.00	-3,055.97	4,518.12	2,818.41	2,587.66	230.75	12.214		
17,000.00	7,730.00	7,685.00	7,685.00	135.51	133.15	-90.00	-3,055.97	4,518.12	2,918.41	2,687.64	230.76	12.647		
17,100.00	7,730.00	7,685.00	7,685.00	136.95	133.15	-90.00	-3,055.97	4,518.12	3,018.41	2,787.63	230.78	13.079		
17,200.00	7,730.00	7,685.00	7,685.00	138.40	133.15	-90.00	-3,055.97	4,518.12	3,118.40	2,887.62	230.79	13.512		
17,300.00	7,730.00	7,685.00	7,685.00	139.85	133.15	-90.00	-3,055.97	4,518.12	3,218.40	2,987.60	230.80	13.944		
17,400.00	7,730.00	7,685.00	7,685.00	141.32	133.15	-90.00	-3,055.97	4,518.12	3,318.40	3,087.59	230.82	14.377		
17,500.00	7,730.00	7,685.00	7,685.00	142.80	133.15	-90.00	-3,055.97	4,518.12	3,418.40	3,187.57	230.83	14.809		
17,600.00	7,730.00	7,685.00	7,685.00	144.28	133.15	-90.00	-3,055.97	4,518.12	3,518.40	3,287.55	230.85	15.241		
17,700.00	7,730.00	7,685.00	7,685.00	145.78	133.15	-90.00	-3,055.97	4,518.12	3,618.40	3,387.54	230.86	15.673		
17,800.00	7,730.00	7,685.00	7,685.00	147.28	133.15	-90.00	-3,055.97	4,518.12	3,718.40	3,487.52	230.88	16.105		
17,900.00	7,730.00	7,685.00	7,685.00	148.79	133.15	-90.00	-3,055.97	4,518.12	3,818.40	3,587.50	230.90	16.537		
18,000.00	7,730.00	7,685.00	7,685.00	150.31	133.15	-90.00	-3,055.97	4,518.12	3,918.40	3,687.49	230.91	16.969		
18,100.00	7,730.00	7,685.00	7,685.00	151.83	133.15	-90.00	-3,055.97	4,518.12	4,018.40	3,787.47	230.93	17.401		
18,200.00	7,730.00	7,685.00	7,685.00	153.37	133.15	-90.00	-3,055.97	4,518.12	4,118.40	3,887.45	230.95	17.833		
18,300.00	7,730.00	7,685.00	7,685.00	154.90	133.15	-90.00	-3,055.97	4,518.12	4,218.40	3,987.43	230.96	18.264		
18,400.00	7,730.00	7,685.00	7,685.00	156.45	133.15	-90.00	-3,055.97	4,518.12	4,318.40	4,087.41	230.98	18.696		
18,500.00	7,730.00	7,685.00	7,685.00	158.00	133.15	-90.00	-3,055.97	4,518.12	4,418.40	4,187.40	231.00	19.127		
18,600.00	7,730.00	7,685.00	7,685.00	159.55	133.15	-90.00	-3,055.97	4,518.12	4,518.40	4,287.38	231.02	19.558		
18,700.00	7,730.00	7,685.00	7,685.00	161.11	133.15	-90.00	-3,055.97	4,518.12	4,618.40	4,387.36	231.04	19.990		
18,800.00	7,730.00	7,685.00	7,685.00	162.68	133.15	-90.00	-3,055.97	4,518.12	4,718.40	4,487.34	231.06	20.421		
18,900.00	7,730.00	7,685.00	7,685.00	164.25	133.15	-90.00	-3,055.97	4,518.12	4,818.40	4,587.32	231.08	20.852		
19,000.00	7,730.00	7,685.00	7,685.00	165.83	133.15	-90.00	-3,055.97	4,518.12	4,918.39	4,687.30	231.10	21.283		
19,100.00	7,730.00	7,685.00	7,685.00	167.41	133.15	-90.00	-3,055.97	4,518.12	5,018.39	4,787.27	231.12	21.713		
19,200.00	7,730.00	7,685.00	7,685.00	168.99	133.15	-90.00	-3,055.97	4,518.12	5,118.39	4,887.25	231.14	22.144		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 34-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,685.00	7,685.00	170.58	133.15	-90.00	-3,055.97	4,518.12	5,218.39	4,987.23	231.16	22.575	
19,400.00	7,730.00	7,685.00	7,685.00	172.17	133.15	-90.00	-3,055.97	4,518.12	5,318.39	5,087.21	231.18	23.005	
19,430.54	7,730.00	7,685.00	7,685.00	172.66	133.15	-90.00	-3,055.97	4,518.12	5,348.93	5,117.74	231.19	23.137	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	105.11	-1,580.32	5,853.55	6,063.35					
100.00	100.00	47.00	47.00	0.13	0.36	105.11	-1,580.32	5,853.55	6,063.12	6,062.63	0.50	N/A		
200.00	200.00	147.00	147.00	0.49	1.59	105.11	-1,580.32	5,853.55	6,063.12	6,061.04	2.08	2,913.353		
300.00	300.00	247.00	247.00	0.85	3.33	105.11	-1,580.32	5,853.55	6,063.12	6,058.94	4.18	1,448.792		
400.00	400.00	347.00	347.00	1.21	5.08	105.11	-1,580.32	5,853.55	6,063.12	6,056.83	6.29	964.122		
500.00	500.00	447.00	447.00	1.57	6.82	105.11	-1,580.32	5,853.55	6,063.12	6,054.73	8.39	722.441		
600.00	599.98	546.98	546.98	1.92	8.57	39.78	-1,580.32	5,853.55	6,061.78	6,051.29	10.49	577.787		
700.00	699.84	646.84	646.84	2.28	10.31	39.87	-1,580.32	5,853.55	6,057.76	6,045.17	12.59	481.244		
800.00	799.45	746.45	746.45	2.64	12.05	40.01	-1,580.32	5,853.55	6,051.06	6,036.38	14.68	412.063		
900.00	898.70	845.70	845.70	3.02	13.78	40.20	-1,580.32	5,853.55	6,041.71	6,024.93	16.78	360.008		
1,000.00	997.47	944.47	944.47	3.41	15.51	40.45	-1,580.32	5,853.55	6,029.73	6,010.85	18.88	319.370		
1,100.00	1,095.62	1,042.62	1,042.62	3.84	17.22	40.76	-1,580.32	5,853.55	6,015.13	5,994.15	20.98	286.717		
1,200.00	1,193.06	1,140.06	1,140.06	4.29	18.92	41.13	-1,580.32	5,853.55	5,997.95	5,974.87	23.08	259.866		
1,300.00	1,289.64	1,236.64	1,236.64	4.78	20.61	41.56	-1,580.32	5,853.55	5,978.23	5,953.04	25.19	237.362		
1,400.00	1,385.27	1,332.27	1,332.27	5.32	22.28	42.05	-1,580.32	5,853.55	5,956.01	5,928.71	27.30	218.199		
1,500.00	1,479.82	1,426.82	1,426.82	5.90	23.93	42.59	-1,580.32	5,853.55	5,931.33	5,901.92	29.41	201.658		
1,600.00	1,573.17	1,520.17	1,520.17	6.53	25.55	43.21	-1,580.32	5,853.55	5,904.26	5,872.73	31.54	187.215		
1,700.00	1,665.21	1,612.21	1,612.21	7.23	27.16	43.88	-1,580.32	5,853.55	5,874.85	5,841.18	33.67	174.476		
1,800.00	1,755.84	1,702.84	1,702.84	7.98	28.74	44.62	-1,580.32	5,853.55	5,843.17	5,807.36	35.82	163.140		
1,900.00	1,844.94	1,808.06	1,791.94	8.80	30.58	45.43	-1,580.32	5,853.55	5,809.29	5,771.03	38.26	151.851		
2,000.00	1,932.39	1,879.39	1,879.39	9.68	31.82	46.31	-1,580.32	5,853.55	5,773.28	5,733.14	40.15	143.800		
2,100.00	2,018.11	1,965.11	1,965.11	10.63	33.32	47.26	-1,580.32	5,853.55	5,735.23	5,692.90	42.34	135.466		
2,200.00	2,101.97	2,048.97	2,048.97	11.65	34.78	48.27	-1,580.32	5,853.55	5,695.22	5,650.68	44.54	127.857		
2,300.00	2,183.88	2,130.88	2,130.88	12.74	36.21	49.36	-1,580.32	5,853.55	5,653.35	5,606.58	46.77	120.875		
2,400.00	2,263.74	2,210.74	2,210.74	13.90	37.61	50.52	-1,580.32	5,853.55	5,609.71	5,560.69	49.02	114.443		
2,431.61	2,288.54	2,235.54	2,235.54	14.29	38.04	50.90	-1,580.32	5,853.55	5,595.57	5,545.83	49.73	112.512		
2,500.00	2,341.97	2,288.97	2,288.97	15.13	38.97	51.20	-1,580.32	5,853.55	5,564.86	5,513.57	51.29	108.505		
2,600.00	2,420.08	2,367.08	2,367.08	16.37	40.34	51.64	-1,580.32	5,853.55	5,520.25	5,466.67	53.58	103.023		
2,700.00	2,498.20	2,445.20	2,445.20	17.63	41.70	52.08	-1,580.32	5,853.55	5,475.99	5,420.08	55.91	97.950		
2,800.00	2,576.32	2,523.32	2,523.32	18.89	43.06	52.53	-1,580.32	5,853.55	5,432.09	5,373.83	58.25	93.250		
2,900.00	2,654.43	2,601.43	2,601.43	20.17	44.43	52.99	-1,580.32	5,853.55	5,388.55	5,327.93	60.62	88.886		
3,000.00	2,732.55	2,679.55	2,679.55	21.45	45.79	53.45	-1,580.32	5,853.55	5,345.39	5,282.37	63.02	84.827		
3,100.00	2,810.67	2,757.67	2,757.67	22.74	47.15	53.92	-1,580.32	5,853.55	5,302.61	5,237.18	65.43	81.045		
3,200.00	2,888.78	2,835.78	2,835.78	24.03	48.52	54.39	-1,580.32	5,853.55	5,260.22	5,192.36	67.86	77.516		
3,300.00	2,966.90	2,913.90	2,913.90	25.33	49.88	54.87	-1,580.32	5,853.55	5,218.24	5,147.92	70.31	74.216		
3,400.00	3,045.02	3,007.98	2,992.02	26.63	51.52	55.36	-1,580.32	5,853.55	5,176.66	5,103.60	73.06	70.855		
3,500.00	3,123.13	3,070.13	3,070.13	27.94	52.61	55.85	-1,580.32	5,853.55	5,135.52	5,060.25	75.27	68.228		
3,600.00	3,201.25	3,148.25	3,148.25	29.24	53.97	56.35	-1,580.32	5,853.55	5,094.80	5,017.02	77.78	65.506		
3,700.00	3,279.37	3,226.37	3,226.37	30.55	55.33	56.85	-1,580.32	5,853.55	5,054.53	4,974.23	80.30	62.945		
3,800.00	3,357.49	3,304.49	3,304.49	31.86	56.70	57.36	-1,580.32	5,853.55	5,014.71	4,931.87	82.84	60.534		
3,900.00	3,435.60	3,382.60	3,382.60	33.18	58.06	57.87	-1,580.32	5,853.55	4,975.35	4,889.95	85.40	58.259		
4,000.00	3,513.72	3,460.72	3,460.72	34.49	59.42	58.39	-1,580.32	5,853.55	4,936.47	4,848.50	87.98	56.112		
4,100.00	3,591.84	3,538.84	3,538.84	35.81	60.79	58.92	-1,580.32	5,853.55	4,898.08	4,807.51	90.57	54.082		
4,200.00	3,669.95	3,616.95	3,616.95	37.12	62.15	59.45	-1,580.32	5,853.55	4,860.19	4,767.01	93.18	52.161		
4,300.00	3,748.07	3,704.93	3,695.07	38.44	63.69	59.98	-1,580.32	5,853.55	4,822.81	4,726.83	95.97	50.251		
4,400.00	3,826.19	3,773.19	3,773.19	39.76	64.88	60.53	-1,580.32	5,853.55	4,785.95	4,687.50	98.44	48.616		
4,500.00	3,904.30	3,851.30	3,851.30	41.08	66.24	61.08	-1,580.32	5,853.55	4,749.62	4,648.52	101.10	46.978		
4,600.00	3,982.42	3,929.42	3,929.42	42.40	67.60	61.63	-1,580.32	5,853.55	4,713.84	4,610.07	103.78	45.423		
4,700.00	4,060.54	4,007.54	4,007.54	43.72	68.97	62.19	-1,580.32	5,853.55	4,678.63	4,572.16	106.46	43.945		
4,800.00	4,138.66	4,085.66	4,085.66	45.05	70.33	62.76	-1,580.32	5,853.55	4,643.98	4,534.81	109.17	42.539		
4,900.00	4,216.77	4,163.77	4,163.77	46.37	71.69	63.33	-1,580.32	5,853.55	4,609.92	4,498.03	111.89	41.201		
5,000.00	4,294.89	4,241.89	4,241.89	47.69	73.06	63.91	-1,580.32	5,853.55	4,576.46	4,461.83	114.62	39.926		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,320.01	4,320.01	49.02	74.42	64.49	-1,580.32	5,853.55	4,543.60	4,426.23	117.37	38.711		
5,200.00	4,451.12	4,401.88	4,398.12	50.34	75.85	65.08	-1,580.32	5,853.55	4,511.38	4,391.18	120.20	37.532		
5,300.00	4,529.24	4,476.24	4,476.24	51.67	77.15	65.68	-1,580.32	5,853.55	4,479.79	4,356.88	122.91	36.447		
5,400.00	4,607.36	4,554.36	4,554.36	52.99	78.51	66.28	-1,580.32	5,853.55	4,448.85	4,323.15	125.70	35.392		
5,500.00	4,685.47	4,632.47	4,632.47	54.32	79.87	66.89	-1,580.32	5,853.55	4,418.58	4,290.07	128.51	34.384		
5,600.00	4,763.59	4,710.59	4,710.59	55.64	81.24	67.50	-1,580.32	5,853.55	4,388.99	4,257.67	131.32	33.421		
5,700.00	4,841.71	4,788.71	4,788.71	56.97	82.60	68.12	-1,580.32	5,853.55	4,360.09	4,225.94	134.15	32.501		
5,800.00	4,919.83	4,866.83	4,866.83	58.30	83.96	68.74	-1,580.32	5,853.55	4,331.90	4,194.91	136.99	31.622		
5,900.00	4,997.94	4,944.94	4,944.94	59.62	85.33	69.37	-1,580.32	5,853.55	4,304.43	4,164.59	139.84	30.781		
6,000.00	5,076.06	5,023.06	5,023.06	60.95	86.69	70.00	-1,580.32	5,853.55	4,277.69	4,134.99	142.70	29.977		
6,100.00	5,154.18	5,101.18	5,101.18	62.28	88.05	70.64	-1,580.32	5,853.55	4,251.71	4,106.14	145.57	29.207		
6,200.00	5,232.29	5,179.29	5,179.29	63.61	89.42	71.29	-1,580.32	5,853.55	4,226.48	4,078.04	148.45	28.471		
6,300.00	5,310.41	5,257.41	5,257.41	64.93	90.78	71.93	-1,580.32	5,853.55	4,202.03	4,050.70	151.33	27.767		
6,400.00	5,388.53	5,335.53	5,335.53	66.26	92.15	72.59	-1,580.32	5,853.55	4,178.38	4,024.15	154.23	27.093		
6,500.00	5,466.64	5,413.64	5,413.64	67.59	93.51	73.25	-1,580.32	5,853.55	4,155.52	3,998.40	157.12	26.447		
6,600.00	5,544.76	5,508.24	5,491.76	68.92	95.16	73.91	-1,580.32	5,853.55	4,133.48	3,973.17	160.32	25.783		
6,700.00	5,622.88	5,569.88	5,569.88	70.25	96.24	74.58	-1,580.32	5,853.55	4,112.27	3,949.34	162.94	25.238		
6,800.00	5,701.00	5,648.00	5,648.00	71.58	97.60	75.25	-1,580.32	5,853.55	4,091.91	3,926.06	165.85	24.672		
6,900.00	5,779.11	5,726.11	5,726.11	72.91	98.96	75.93	-1,580.32	5,853.55	4,072.40	3,903.63	168.76	24.131		
7,000.00	5,857.23	5,804.23	5,804.23	74.23	100.33	76.61	-1,580.32	5,853.55	4,053.76	3,882.08	171.68	23.612		
7,100.00	5,935.35	5,882.35	5,882.35	75.56	101.69	77.29	-1,580.32	5,853.55	4,035.99	3,861.40	174.60	23.116		
7,200.00	6,013.46	5,960.46	5,960.46	76.89	103.05	77.98	-1,580.32	5,853.55	4,019.12	3,841.61	177.51	22.642		
7,300.00	6,091.58	6,038.58	6,038.58	78.22	104.42	78.67	-1,580.32	5,853.55	4,003.15	3,822.73	180.42	22.188		
7,400.00	6,169.70	6,116.70	6,116.70	79.55	105.78	79.36	-1,580.32	5,853.55	3,988.10	3,804.77	183.33	21.754		
7,500.00	6,247.81	6,205.19	6,194.81	80.88	107.32	80.06	-1,580.32	5,853.55	3,973.97	3,787.55	186.42	21.318		
7,600.00	6,325.93	6,272.93	6,272.93	82.21	108.51	80.76	-1,580.32	5,853.55	3,960.77	3,771.63	189.13	20.942		
7,700.00	6,404.05	6,351.05	6,351.05	83.54	109.87	81.46	-1,580.32	5,853.55	3,948.51	3,756.49	192.03	20.562		
7,800.00	6,482.17	6,429.17	6,429.17	84.87	111.23	82.17	-1,580.32	5,853.55	3,937.21	3,742.30	194.91	20.200		
7,900.00	6,560.28	6,507.28	6,507.28	86.20	112.60	82.88	-1,580.32	5,853.55	3,926.87	3,729.08	197.78	19.854		
8,000.00	6,638.40	6,585.40	6,585.40	87.53	113.96	83.59	-1,580.32	5,853.55	3,917.49	3,716.85	200.65	19.524		
8,100.00	6,716.52	6,663.52	6,663.52	88.86	115.32	84.30	-1,580.32	5,853.55	3,909.09	3,705.59	203.50	19.209		
8,200.00	6,794.63	6,741.63	6,741.63	90.20	116.69	85.02	-1,580.32	5,853.55	3,901.67	3,695.34	206.34	18.909		
8,300.00	6,872.75	6,819.75	6,819.75	91.53	118.05	85.73	-1,580.32	5,853.55	3,895.24	3,686.08	209.16	18.623		
8,400.00	6,950.87	6,902.13	6,897.87	92.86	119.49	86.45	-1,580.32	5,853.55	3,889.80	3,677.76	212.04	18.344		
8,500.00	7,028.98	6,975.98	6,975.98	94.19	120.78	87.17	-1,580.32	5,853.55	3,885.36	3,670.59	214.76	18.091		
8,600.00	7,107.10	7,054.10	7,054.10	95.52	122.14	87.89	-1,580.32	5,853.55	3,881.91	3,664.37	217.54	17.845		
8,647.91	7,144.53	7,108.47	7,091.53	96.16	123.09	88.23	-1,580.32	5,853.55	3,880.61	3,661.46	219.15	17.707		
8,650.00	7,146.16	7,106.84	7,093.16	96.18	123.06	88.00	-1,580.32	5,853.55	3,880.56	3,661.41	219.15	17.707		
8,700.00	7,185.66	7,132.66	7,132.66	96.84	123.51	82.06	-1,580.32	5,853.55	3,877.26	3,656.98	220.29	17.601		
8,750.00	7,225.78	7,172.78	7,172.78	97.47	124.21	75.54	-1,580.32	5,853.55	3,870.16	3,648.52	221.64	17.462		
8,800.00	7,266.21	7,213.21	7,213.21	98.08	124.92	68.62	-1,580.32	5,853.55	3,859.26	3,636.30	222.96	17.309		
8,850.00	7,306.63	7,253.63	7,253.63	98.64	125.62	61.54	-1,580.32	5,853.55	3,844.62	3,620.38	224.24	17.145		
8,900.00	7,346.75	7,306.25	7,293.75	99.17	126.54	54.52	-1,580.32	5,853.55	3,826.30	3,600.62	225.68	16.954		
8,950.00	7,386.25	7,333.25	7,333.25	99.64	127.01	47.74	-1,580.32	5,853.55	3,804.42	3,577.79	226.63	16.787		
9,000.00	7,424.84	7,371.84	7,371.84	100.06	127.69	41.28	-1,580.32	5,853.55	3,779.10	3,551.38	227.72	16.595		
9,050.00	7,462.22	7,409.22	7,409.22	100.42	128.34	35.16	-1,580.32	5,853.55	3,750.50	3,521.76	228.74	16.396		
9,100.00	7,498.11	7,445.11	7,445.11	100.74	128.96	29.32	-1,580.32	5,853.55	3,718.80	3,489.13	229.67	16.192		
9,150.00	7,532.24	7,479.24	7,479.24	100.99	129.56	23.62	-1,580.32	5,853.55	3,684.22	3,453.70	230.51	15.983		
9,200.00	7,564.34	7,511.34	7,511.34	101.19	130.12	17.88	-1,580.32	5,853.55	3,646.99	3,415.73	231.26	15.770		
9,250.00	7,594.17	7,541.17	7,541.17	101.34	130.64	11.86	-1,580.32	5,853.55	3,607.38	3,375.46	231.92	15.555		
9,300.00	7,621.50	7,568.50	7,568.50	101.45	131.12	5.21	-1,580.32	5,853.55	3,565.68	3,333.21	232.47	15.338		
9,350.00	7,646.13	7,606.87	7,593.13	101.50	131.79	-2.48	-1,580.32	5,853.55	3,522.19	3,289.02	233.16	15.106		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,614.87	7,614.87	101.51	131.93	-11.76	-1,580.32	5,853.55	3,477.24	3,243.96	233.28	14.906		
9,450.00	7,686.55	7,633.55	7,633.55	101.48	132.25	-23.14	-1,580.32	5,853.55	3,431.18	3,197.66	233.52	14.693		
9,500.00	7,702.04	7,649.04	7,649.04	101.42	132.52	-36.81	-1,580.32	5,853.55	3,384.38	3,150.72	233.67	14.484		
9,550.00	7,714.20	7,661.20	7,661.20	101.33	132.74	-52.02	-1,580.32	5,853.55	3,337.22	3,103.51	233.71	14.279		
9,600.00	7,722.96	7,669.96	7,669.96	101.20	132.89	-66.97	-1,580.32	5,853.55	3,290.07	3,056.43	233.65	14.081		
9,650.00	7,728.24	7,675.24	7,675.24	101.06	132.98	-79.88	-1,580.32	5,853.55	3,243.35	3,009.86	233.49	13.891		
9,699.97	7,730.00	7,677.00	7,677.00	100.90	133.01	-90.00	-1,580.32	5,853.55	3,197.46	2,964.23	233.23	13.710		
9,800.00	7,730.00	7,677.00	7,677.00	100.56	133.01	-90.00	-1,580.32	5,853.55	3,106.97	2,874.38	232.59	13.358		
9,900.00	7,730.00	7,677.00	7,677.00	100.24	133.01	-90.00	-1,580.32	5,853.55	3,017.12	2,785.21	231.90	13.010		
10,000.00	7,730.00	7,677.00	7,677.00	99.93	133.01	-90.00	-1,580.32	5,853.55	2,927.92	2,696.75	231.16	12.666		
10,100.00	7,730.00	7,677.00	7,677.00	99.64	133.01	-90.00	-1,580.32	5,853.55	2,839.44	2,609.07	230.36	12.326		
10,200.00	7,730.00	7,677.00	7,677.00	99.36	133.01	-90.00	-1,580.32	5,853.55	2,751.75	2,522.25	229.50	11.990		
10,300.00	7,730.00	7,677.00	7,677.00	99.09	133.01	-90.00	-1,580.32	5,853.55	2,664.93	2,436.37	228.56	11.660		
10,400.00	7,730.00	7,677.00	7,677.00	98.84	133.01	-90.00	-1,580.32	5,853.55	2,579.06	2,351.52	227.54	11.335		
10,500.00	7,730.00	7,677.00	7,677.00	98.61	133.01	-90.00	-1,580.32	5,853.55	2,494.24	2,267.81	226.43	11.016		
10,600.00	7,730.00	7,677.00	7,677.00	98.39	133.01	-90.00	-1,580.32	5,853.55	2,410.59	2,185.37	225.22	10.703		
10,700.00	7,730.00	7,677.00	7,677.00	98.18	133.01	-90.00	-1,580.32	5,853.55	2,328.23	2,104.32	223.91	10.398		
10,800.00	7,730.00	7,677.00	7,677.00	97.99	133.01	-90.00	-1,580.32	5,853.55	2,247.30	2,024.83	222.47	10.101		
10,900.00	7,730.00	7,677.00	7,677.00	97.81	133.01	-90.00	-1,580.32	5,853.55	2,167.97	1,947.06	220.91	9.814		
11,000.00	7,730.00	7,677.00	7,677.00	97.64	133.01	-90.00	-1,580.32	5,853.55	2,090.40	1,871.20	219.20	9.536		
11,100.00	7,730.00	7,677.00	7,677.00	97.50	133.01	-90.00	-1,580.32	5,853.55	2,014.82	1,797.47	217.35	9.270		
11,200.00	7,730.00	7,677.00	7,677.00	97.36	133.01	-90.00	-1,580.32	5,853.55	1,941.44	1,726.11	215.33	9.016		
11,300.00	7,730.00	7,677.00	7,677.00	97.24	133.01	-90.00	-1,580.32	5,853.55	1,870.54	1,657.39	213.14	8.776		
11,400.00	7,730.00	7,677.00	7,677.00	97.14	133.01	-90.00	-1,580.32	5,853.55	1,802.39	1,591.60	210.79	8.551		
11,500.00	7,730.00	7,677.00	7,677.00	97.06	133.01	-90.00	-1,580.32	5,853.55	1,737.33	1,529.07	208.27	8.342		
11,600.00	7,730.00	7,677.00	7,677.00	96.98	133.01	-90.00	-1,580.32	5,853.55	1,675.72	1,470.12	205.60	8.151		
11,700.00	7,730.00	7,677.00	7,677.00	96.93	133.01	-90.00	-1,580.32	5,853.55	1,617.94	1,415.13	202.81	7.978		
11,800.00	7,730.00	7,677.00	7,677.00	96.90	133.01	-90.00	-1,580.32	5,853.55	1,564.43	1,364.47	199.96	7.824		
11,900.00	7,730.00	7,677.00	7,677.00	96.88	133.01	-90.00	-1,580.32	5,853.55	1,515.64	1,318.50	197.13	7.688		
12,000.00	7,730.00	7,677.00	7,677.00	96.88	133.01	-90.00	-1,580.32	5,853.55	1,472.03	1,277.58	194.45	7.570		
12,100.00	7,730.00	7,677.00	7,677.00	96.90	133.01	-90.00	-1,580.32	5,853.55	1,434.07	1,242.02	192.06	7.467		
12,200.00	7,730.00	7,677.00	7,677.00	96.94	133.01	-90.00	-1,580.32	5,853.55	1,402.24	1,212.09	190.15	7.374		
12,300.00	7,730.00	7,677.00	7,677.00	97.00	133.01	-90.00	-1,580.32	5,853.55	1,376.95	1,188.02	188.92	7.288		
12,400.00	7,730.00	7,677.00	7,677.00	97.08	133.01	-90.00	-1,580.32	5,853.55	1,358.56	1,170.01	188.55	7.205		
12,500.00	7,730.00	7,677.00	7,677.00	97.18	133.01	-90.00	-1,580.32	5,853.55	1,347.37	1,158.24	189.13	7.124		
12,600.00	7,730.00	7,677.00	7,677.00	97.31	133.01	-90.00	-1,580.32	5,853.55	1,343.54	1,152.88	190.67	7.047		
12,601.46	7,730.00	7,677.00	7,677.00	97.31	133.01	-90.00	-1,580.32	5,853.55	1,343.54	1,152.85	190.69	7.046 CC, ES		
12,700.00	7,730.00	7,677.00	7,677.00	97.46	133.01	-90.00	-1,580.32	5,853.55	1,347.15	1,154.10	193.05	6.978		
12,800.00	7,730.00	7,677.00	7,677.00	97.64	133.01	-90.00	-1,580.32	5,853.55	1,358.13	1,162.04	196.10	6.926		
12,900.00	7,730.00	7,677.00	7,677.00	97.85	133.01	-90.00	-1,580.32	5,853.55	1,376.31	1,176.71	199.60	6.895		
13,000.00	7,730.00	7,677.00	7,677.00	98.09	133.01	-90.00	-1,580.32	5,853.55	1,401.41	1,198.06	203.34	6.892 SF		
13,100.00	7,730.00	7,677.00	7,677.00	98.35	133.01	-90.00	-1,580.32	5,853.55	1,433.06	1,225.90	207.16	6.918		
13,200.00	7,730.00	7,677.00	7,677.00	98.65	133.01	-90.00	-1,580.32	5,853.55	1,470.83	1,259.94	210.90	6.974		
13,300.00	7,730.00	7,677.00	7,677.00	98.98	133.01	-90.00	-1,580.32	5,853.55	1,514.29	1,299.81	214.47	7.060		
13,400.00	7,730.00	7,677.00	7,677.00	99.34	133.01	-90.00	-1,580.32	5,853.55	1,562.94	1,345.12	217.82	7.175		
13,500.00	7,730.00	7,677.00	7,677.00	99.74	133.01	-90.00	-1,580.32	5,853.55	1,616.32	1,395.42	220.90	7.317		
13,600.00	7,730.00	7,677.00	7,677.00	100.17	133.01	-90.00	-1,580.32	5,853.55	1,673.97	1,450.27	223.70	7.483		
13,700.00	7,730.00	7,677.00	7,677.00	100.65	133.01	-90.00	-1,580.32	5,853.55	1,735.48	1,509.24	226.24	7.671		
13,800.00	7,730.00	7,677.00	7,677.00	101.16	133.01	-90.00	-1,580.32	5,853.55	1,800.44	1,571.93	228.51	7.879		
13,900.00	7,730.00	7,677.00	7,677.00	101.71	133.01	-90.00	-1,580.32	5,853.55	1,868.50	1,637.96	230.55	8.105		
14,000.00	7,730.00	7,677.00	7,677.00	102.30	133.01	-90.00	-1,580.32	5,853.55	1,939.33	1,706.98	232.36	8.346		
14,100.00	7,730.00	7,677.00	7,677.00	102.93	133.01	-90.00	-1,580.32	5,853.55	2,012.64	1,778.67	233.97	8.602		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,677.00	7,677.00	103.60	133.01	-90.00	-1,580.32	5,853.55	2,088.17	1,852.76	235.40	8.871		
14,300.00	7,730.00	7,677.00	7,677.00	104.32	133.01	-90.00	-1,580.32	5,853.55	2,165.67	1,929.00	236.67	9.150		
14,400.00	7,730.00	7,677.00	7,677.00	105.07	133.01	-90.00	-1,580.32	5,853.55	2,244.96	2,007.15	237.81	9.440		
14,500.00	7,730.00	7,677.00	7,677.00	105.86	133.01	-90.00	-1,580.32	5,853.55	2,325.85	2,087.03	238.81	9.739		
14,600.00	7,730.00	7,677.00	7,677.00	106.70	133.01	-90.00	-1,580.32	5,853.55	2,408.17	2,168.46	239.71	10.046		
14,700.00	7,730.00	7,677.00	7,677.00	107.57	133.01	-90.00	-1,580.32	5,853.55	2,491.78	2,251.27	240.51	10.360		
14,800.00	7,730.00	7,677.00	7,677.00	108.48	133.01	-90.00	-1,580.32	5,853.55	2,576.56	2,335.34	241.22	10.681		
14,900.00	7,730.00	7,677.00	7,677.00	109.43	133.01	-90.00	-1,580.32	5,853.55	2,662.40	2,420.54	241.86	11.008		
15,000.00	7,730.00	7,677.00	7,677.00	110.42	133.01	-90.00	-1,580.32	5,853.55	2,749.20	2,506.76	242.44	11.340		
15,100.00	7,730.00	7,677.00	7,677.00	111.43	133.01	-90.00	-1,580.32	5,853.55	2,836.87	2,593.91	242.95	11.677		
15,200.00	7,730.00	7,677.00	7,677.00	112.49	133.01	-90.00	-1,580.32	5,853.55	2,925.32	2,681.91	243.42	12.018		
15,300.00	7,730.00	7,677.00	7,677.00	113.57	133.01	-90.00	-1,580.32	5,853.55	3,014.50	2,770.67	243.83	12.363		
15,400.00	7,730.00	7,677.00	7,677.00	114.68	133.01	-90.00	-1,580.32	5,853.55	3,104.34	2,860.13	244.21	12.712		
15,500.00	7,730.00	7,677.00	7,677.00	115.82	133.01	-90.00	-1,580.32	5,853.55	3,194.78	2,950.23	244.55	13.064		
15,600.00	7,730.00	7,677.00	7,677.00	116.99	133.01	-90.00	-1,580.32	5,853.55	3,285.78	3,040.92	244.86	13.419		
15,700.00	7,730.00	7,677.00	7,677.00	118.19	133.01	-90.00	-1,580.32	5,853.55	3,377.28	3,132.14	245.14	13.777		
15,800.00	7,730.00	7,677.00	7,677.00	119.41	133.01	-90.00	-1,580.32	5,853.55	3,469.26	3,223.86	245.40	14.137		
15,900.00	7,730.00	7,677.00	7,677.00	120.65	133.01	-90.00	-1,580.32	5,853.55	3,561.67	3,316.03	245.63	14.500		
16,000.00	7,730.00	7,677.00	7,677.00	121.91	133.01	-90.00	-1,580.32	5,853.55	3,654.47	3,408.63	245.85	14.865		
16,100.00	7,730.00	7,677.00	7,677.00	123.20	133.01	-90.00	-1,580.32	5,853.55	3,747.65	3,501.61	246.04	15.232		
16,200.00	7,730.00	7,677.00	7,677.00	124.50	133.01	-90.00	-1,580.32	5,853.55	3,841.17	3,594.95	246.22	15.601		
16,300.00	7,730.00	7,677.00	7,677.00	125.82	133.01	-90.00	-1,580.32	5,853.55	3,935.01	3,688.63	246.38	15.971		
16,400.00	7,730.00	7,677.00	7,677.00	127.16	133.01	-90.00	-1,580.32	5,853.55	4,029.14	3,782.61	246.53	16.343		
16,500.00	7,730.00	7,677.00	7,677.00	128.52	133.01	-90.00	-1,580.32	5,853.55	4,123.56	3,876.88	246.67	16.717		
16,600.00	7,730.00	7,677.00	7,677.00	129.89	133.01	-90.00	-1,580.32	5,853.55	4,218.22	3,971.42	246.80	17.092		
16,700.00	7,730.00	7,677.00	7,677.00	131.27	133.01	-90.00	-1,580.32	5,853.55	4,313.13	4,066.21	246.92	17.468		
16,800.00	7,730.00	7,677.00	7,677.00	132.67	133.01	-90.00	-1,580.32	5,853.55	4,408.27	4,161.24	247.03	17.845		
16,900.00	7,730.00	7,677.00	7,677.00	134.09	133.01	-90.00	-1,580.32	5,853.55	4,503.61	4,256.48	247.13	18.223		
17,000.00	7,730.00	7,677.00	7,677.00	135.51	133.01	-90.00	-1,580.32	5,853.55	4,599.16	4,351.93	247.23	18.603		
17,100.00	7,730.00	7,677.00	7,677.00	136.95	133.01	-90.00	-1,580.32	5,853.55	4,694.89	4,447.57	247.32	18.983		
17,200.00	7,730.00	7,677.00	7,677.00	138.40	133.01	-90.00	-1,580.32	5,853.55	4,790.79	4,543.39	247.40	19.365		
17,300.00	7,730.00	7,677.00	7,677.00	139.85	133.01	-90.00	-1,580.32	5,853.55	4,886.86	4,639.38	247.48	19.747		
17,400.00	7,730.00	7,677.00	7,677.00	141.32	133.01	-90.00	-1,580.32	5,853.55	4,983.08	4,735.53	247.55	20.130		
17,500.00	7,730.00	7,677.00	7,677.00	142.80	133.01	-90.00	-1,580.32	5,853.55	5,079.45	4,831.83	247.62	20.513		
17,600.00	7,730.00	7,677.00	7,677.00	144.28	133.01	-90.00	-1,580.32	5,853.55	5,175.95	4,928.27	247.68	20.898		
17,700.00	7,730.00	7,677.00	7,677.00	145.78	133.01	-90.00	-1,580.32	5,853.55	5,272.59	5,024.85	247.74	21.283		
17,800.00	7,730.00	7,677.00	7,677.00	147.28	133.01	-90.00	-1,580.32	5,853.55	5,369.35	5,121.55	247.80	21.668		
17,900.00	7,730.00	7,677.00	7,677.00	148.79	133.01	-90.00	-1,580.32	5,853.55	5,466.23	5,218.37	247.85	22.054		
18,000.00	7,730.00	7,677.00	7,677.00	150.31	133.01	-90.00	-1,580.32	5,853.55	5,563.21	5,315.31	247.90	22.441		
18,100.00	7,730.00	7,677.00	7,677.00	151.83	133.01	-90.00	-1,580.32	5,853.55	5,660.30	5,412.35	247.95	22.828		
18,200.00	7,730.00	7,677.00	7,677.00	153.37	133.01	-90.00	-1,580.32	5,853.55	5,757.49	5,509.50	248.00	23.216		
18,300.00	7,730.00	7,677.00	7,677.00	154.90	133.01	-90.00	-1,580.32	5,853.55	5,854.78	5,606.74	248.04	23.604		
18,400.00	7,730.00	7,677.00	7,677.00	156.45	133.01	-90.00	-1,580.32	5,853.55	5,952.16	5,704.07	248.08	23.993		
18,500.00	7,730.00	7,677.00	7,677.00	158.00	133.01	-90.00	-1,580.32	5,853.55	6,049.62	5,801.49	248.12	24.381		
18,600.00	7,730.00	7,677.00	7,677.00	159.55	133.01	-90.00	-1,580.32	5,853.55	6,147.16	5,899.00	248.16	24.771		
18,700.00	7,730.00	7,677.00	7,677.00	161.11	133.01	-90.00	-1,580.32	5,853.55	6,244.78	5,996.58	248.20	25.160		
18,800.00	7,730.00	7,677.00	7,677.00	162.68	133.01	-90.00	-1,580.32	5,853.55	6,342.48	6,094.24	248.23	25.550		
18,900.00	7,730.00	7,677.00	7,677.00	164.25	133.01	-90.00	-1,580.32	5,853.55	6,440.24	6,191.97	248.27	25.941		
19,000.00	7,730.00	7,677.00	7,677.00	165.83	133.01	-90.00	-1,580.32	5,853.55	6,538.07	6,289.77	248.30	26.331		
19,100.00	7,730.00	7,677.00	7,677.00	167.41	133.01	-90.00	-1,580.32	5,853.55	6,635.97	6,387.64	248.33	26.722		
19,200.00	7,730.00	7,677.00	7,677.00	168.99	133.01	-90.00	-1,580.32	5,853.55	6,733.93	6,485.57	248.36	27.113		
19,300.00	7,730.00	7,677.00	7,677.00	170.58	133.01	-90.00	-1,580.32	5,853.55	6,831.95	6,583.55	248.39	27.504		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN 43-23 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,677.00	7,677.00	172.17	133.01	-90.00	-1,580.32	5,853.55	6,930.02	6,681.60	248.42	27.896	
19,430.54	7,730.00	7,677.00	7,677.00	172.66	133.01	-90.00	-1,580.32	5,853.55	6,959.98	6,711.55	248.43	28.016	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	115.08	-2,506.46	5,356.71	5,914.29					
100.00	100.00	53.00	53.00	0.13	0.41	115.08	-2,506.46	5,356.71	5,914.11	5,913.57	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	115.08	-2,506.46	5,356.71	5,914.11	5,911.92	2.19	2,705.610		
300.00	300.00	253.00	253.00	0.85	3.44	115.08	-2,506.46	5,356.71	5,914.11	5,909.82	4.29	1,378.686		
400.00	400.00	353.00	353.00	1.21	5.18	115.08	-2,506.46	5,356.71	5,914.11	5,907.71	6.39	925.023		
500.00	500.00	453.00	453.00	1.57	6.93	115.08	-2,506.46	5,356.71	5,914.11	5,905.61	8.50	696.001		
600.00	599.98	552.98	552.98	1.92	8.67	49.75	-2,506.46	5,356.71	5,912.98	5,902.38	10.60	558.036		
700.00	699.84	652.84	652.84	2.28	10.42	49.84	-2,506.46	5,356.71	5,909.60	5,896.91	12.69	465.606		
800.00	799.45	752.45	752.45	2.64	12.16	50.00	-2,506.46	5,356.71	5,903.97	5,889.18	14.79	399.180		
900.00	898.70	851.70	851.70	3.02	13.89	50.21	-2,506.46	5,356.71	5,896.12	5,879.23	16.89	349.080		
1,000.00	997.47	950.47	950.47	3.41	15.61	50.48	-2,506.46	5,356.71	5,886.07	5,867.07	18.99	309.886		
1,100.00	1,095.62	1,048.62	1,048.62	3.84	17.32	50.81	-2,506.46	5,356.71	5,873.83	5,852.73	21.10	278.334		
1,200.00	1,193.06	1,146.06	1,146.06	4.29	19.03	51.21	-2,506.46	5,356.71	5,859.46	5,836.24	23.22	252.342		
1,300.00	1,289.64	1,242.64	1,242.64	4.78	20.71	51.66	-2,506.46	5,356.71	5,842.98	5,817.63	25.35	230.521		
1,400.00	1,385.27	1,338.27	1,338.27	5.32	22.38	52.18	-2,506.46	5,356.71	5,824.45	5,796.96	27.49	211.909		
1,500.00	1,479.82	1,432.82	1,432.82	5.90	24.03	52.76	-2,506.46	5,356.71	5,803.92	5,774.28	29.64	195.821		
1,600.00	1,573.17	1,526.17	1,526.17	6.53	25.66	53.40	-2,506.46	5,356.71	5,781.44	5,749.63	31.81	181.753		
1,700.00	1,665.21	1,618.21	1,618.21	7.23	27.27	54.10	-2,506.46	5,356.71	5,757.10	5,723.10	34.00	169.332		
1,800.00	1,755.84	1,708.84	1,708.84	7.98	28.85	54.86	-2,506.46	5,356.71	5,730.95	5,694.74	36.21	158.269		
1,900.00	1,844.94	1,802.06	1,797.94	8.80	30.47	55.69	-2,506.46	5,356.71	5,703.07	5,664.55	38.52	148.066		
2,000.00	1,932.39	1,885.39	1,885.39	9.68	31.93	56.57	-2,506.46	5,356.71	5,673.55	5,632.84	40.71	139.380		
2,100.00	2,018.11	1,971.11	1,971.11	10.63	33.42	57.51	-2,506.46	5,356.71	5,642.48	5,599.48	42.99	131.239		
2,200.00	2,101.97	2,054.97	2,054.97	11.65	34.89	58.51	-2,506.46	5,356.71	5,609.94	5,564.63	45.31	123.809		
2,300.00	2,183.88	2,136.88	2,136.88	12.74	36.32	59.57	-2,506.46	5,356.71	5,576.05	5,528.39	47.66	116.997		
2,400.00	2,263.74	2,216.74	2,216.74	13.90	37.71	60.68	-2,506.46	5,356.71	5,540.91	5,490.87	50.04	110.728		
2,431.61	2,288.54	2,241.54	2,241.54	14.29	38.14	61.04	-2,506.46	5,356.71	5,529.56	5,478.76	50.80	108.850		
2,500.00	2,341.97	2,305.04	2,294.97	15.13	39.25	61.37	-2,506.46	5,356.71	5,504.99	5,452.36	52.63	104.603		
2,600.00	2,420.08	2,373.08	2,373.08	16.37	40.44	61.85	-2,506.46	5,356.71	5,469.46	5,414.57	54.89	99.640		
2,700.00	2,498.20	2,451.20	2,451.20	17.63	41.80	62.33	-2,506.46	5,356.71	5,434.42	5,377.06	57.36	94.744		
2,800.00	2,576.32	2,529.32	2,529.32	18.89	43.17	62.82	-2,506.46	5,356.71	5,399.87	5,340.03	59.85	90.224		
2,900.00	2,654.43	2,607.43	2,607.43	20.17	44.53	63.31	-2,506.46	5,356.71	5,365.83	5,303.47	62.36	86.044		
3,000.00	2,732.55	2,685.55	2,685.55	21.45	45.89	63.81	-2,506.46	5,356.71	5,332.30	5,267.41	64.89	82.171		
3,100.00	2,810.67	2,763.67	2,763.67	22.74	47.26	64.31	-2,506.46	5,356.71	5,299.30	5,231.85	67.44	78.574		
3,200.00	2,888.78	2,841.78	2,841.78	24.03	48.62	64.81	-2,506.46	5,356.71	5,266.82	5,196.81	70.01	75.228		
3,300.00	2,966.90	2,919.90	2,919.90	25.33	49.98	65.32	-2,506.46	5,356.71	5,234.89	5,162.30	72.60	72.110		
3,400.00	3,045.02	3,001.98	2,998.02	26.63	51.42	65.83	-2,506.46	5,356.71	5,203.52	5,128.25	75.27	69.135		
3,500.00	3,123.13	3,076.13	3,076.13	27.94	52.71	66.35	-2,506.46	5,356.71	5,172.71	5,094.89	77.81	66.476		
3,600.00	3,201.25	3,154.25	3,154.25	29.24	54.07	66.87	-2,506.46	5,356.71	5,142.47	5,062.02	80.44	63.927		
3,700.00	3,279.37	3,232.37	3,232.37	30.55	55.44	67.40	-2,506.46	5,356.71	5,112.81	5,029.72	83.09	61.535		
3,800.00	3,357.49	3,310.49	3,310.49	31.86	56.80	67.93	-2,506.46	5,356.71	5,083.75	4,998.00	85.74	59.289		
3,900.00	3,435.60	3,388.60	3,388.60	33.18	58.16	68.46	-2,506.46	5,356.71	5,055.29	4,966.87	88.42	57.176		
4,000.00	3,513.72	3,466.72	3,466.72	34.49	59.53	69.00	-2,506.46	5,356.71	5,027.45	4,936.35	91.10	55.187		
4,100.00	3,591.84	3,544.84	3,544.84	35.81	60.89	69.54	-2,506.46	5,356.71	5,000.23	4,906.43	93.79	53.311		
4,200.00	3,669.95	3,622.95	3,622.95	37.12	62.26	70.09	-2,506.46	5,356.71	4,973.64	4,877.14	96.50	51.541		
4,300.00	3,748.07	3,701.07	3,701.07	38.44	63.62	70.64	-2,506.46	5,356.71	4,947.70	4,848.48	99.22	49.868		
4,400.00	3,826.19	3,779.19	3,779.19	39.76	64.98	71.19	-2,506.46	5,356.71	4,922.42	4,820.47	101.94	48.285		
4,500.00	3,904.30	3,857.30	3,857.30	41.08	66.35	71.75	-2,506.46	5,356.71	4,897.80	4,793.12	104.68	46.788		
4,600.00	3,982.42	3,935.42	3,935.42	42.40	67.71	72.31	-2,506.46	5,356.71	4,873.85	4,766.42	107.43	45.369		
4,700.00	4,060.54	4,013.54	4,013.54	43.72	69.07	72.87	-2,506.46	5,356.71	4,850.59	4,740.41	110.18	44.023		
4,800.00	4,138.66	4,108.34	4,091.66	45.05	70.73	73.44	-2,506.46	5,356.71	4,828.03	4,714.79	113.24	42.636		
4,900.00	4,216.77	4,169.77	4,169.77	46.37	71.80	74.01	-2,506.46	5,356.71	4,806.17	4,690.45	115.72	41.534		
5,000.00	4,294.89	4,247.89	4,247.89	47.69	73.16	74.58	-2,506.46	5,356.71	4,785.03	4,666.53	118.50	40.381		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,326.01	4,326.01	49.02	74.53	75.16	-2,506.46	5,356.71	4,764.61	4,643.33	121.28	39.286		
5,200.00	4,451.12	4,404.12	4,404.12	50.34	75.89	75.74	-2,506.46	5,356.71	4,744.92	4,620.85	124.07	38.244		
5,300.00	4,529.24	4,482.24	4,482.24	51.67	77.25	76.32	-2,506.46	5,356.71	4,725.98	4,599.12	126.87	37.252		
5,400.00	4,607.36	4,560.36	4,560.36	52.99	78.62	76.91	-2,506.46	5,356.71	4,707.79	4,578.13	129.67	36.307		
5,500.00	4,685.47	4,638.47	4,638.47	54.32	79.98	77.50	-2,506.46	5,356.71	4,690.36	4,557.89	132.47	35.407		
5,600.00	4,763.59	4,716.59	4,716.59	55.64	81.34	78.09	-2,506.46	5,356.71	4,673.70	4,538.42	135.27	34.550		
5,700.00	4,841.71	4,805.29	4,794.71	56.97	82.89	78.68	-2,506.46	5,356.71	4,657.82	4,519.55	138.27	33.687		
5,800.00	4,919.83	4,872.83	4,872.83	58.30	84.07	79.28	-2,506.46	5,356.71	4,642.72	4,501.82	140.89	32.952		
5,900.00	4,997.94	4,950.94	4,950.94	59.62	85.43	79.88	-2,506.46	5,356.71	4,628.41	4,484.71	143.70	32.208		
6,000.00	5,076.06	5,029.06	5,029.06	60.95	86.80	80.48	-2,506.46	5,356.71	4,614.91	4,468.39	146.51	31.498		
6,100.00	5,154.18	5,107.18	5,107.18	62.28	88.16	81.08	-2,506.46	5,356.71	4,602.21	4,452.88	149.32	30.820		
6,200.00	5,232.29	5,185.29	5,185.29	63.61	89.52	81.69	-2,506.46	5,356.71	4,590.32	4,438.19	152.13	30.173		
6,300.00	5,310.41	5,263.41	5,263.41	64.93	90.89	82.30	-2,506.46	5,356.71	4,579.26	4,424.32	154.94	29.555		
6,400.00	5,388.53	5,341.53	5,341.53	66.26	92.25	82.91	-2,506.46	5,356.71	4,569.02	4,411.28	157.74	28.965		
6,500.00	5,466.64	5,419.64	5,419.64	67.59	93.61	83.52	-2,506.46	5,356.71	4,559.62	4,399.08	160.54	28.402		
6,600.00	5,544.76	5,502.24	5,497.76	68.92	95.05	84.13	-2,506.46	5,356.71	4,551.05	4,387.64	163.41	27.850		
6,700.00	5,622.88	5,575.88	5,575.88	70.25	96.34	84.74	-2,506.46	5,356.71	4,543.32	4,377.20	166.12	27.349		
6,800.00	5,701.00	5,654.00	5,654.00	71.58	97.70	85.36	-2,506.46	5,356.71	4,536.44	4,367.54	168.90	26.858		
6,900.00	5,779.11	5,732.11	5,732.11	72.91	99.07	85.97	-2,506.46	5,356.71	4,530.41	4,358.74	171.68	26.389		
7,000.00	5,857.23	5,810.23	5,810.23	74.23	100.43	86.59	-2,506.46	5,356.71	4,525.23	4,350.79	174.44	25.941		
7,100.00	5,935.35	5,888.35	5,888.35	75.56	101.79	87.21	-2,506.46	5,356.71	4,520.91	4,343.71	177.20	25.513		
7,200.00	6,013.46	5,966.46	5,966.46	76.89	103.16	87.82	-2,506.46	5,356.71	4,517.45	4,337.51	179.95	25.104		
7,300.00	6,091.58	6,044.58	6,044.58	78.22	104.52	88.44	-2,506.46	5,356.71	4,514.85	4,332.17	182.68	24.714		
7,400.00	6,169.70	6,122.70	6,122.70	79.55	105.88	89.06	-2,506.46	5,356.71	4,513.11	4,327.70	185.41	24.341		
7,500.00	6,247.81	6,200.81	6,200.81	80.88	107.25	89.68	-2,506.46	5,356.71	4,512.24	4,324.11	188.12	23.986		
7,551.38	6,287.95	6,240.95	6,240.95	81.57	107.95	90.00	-2,506.46	5,356.71	4,512.12	4,322.61	189.51	23.809		
7,600.00	6,325.93	6,278.93	6,278.93	82.21	108.61	90.30	-2,506.46	5,356.71	4,512.22	4,321.40	190.82	23.646		
7,700.00	6,404.05	6,357.05	6,357.05	83.54	109.97	90.92	-2,506.46	5,356.71	4,513.08	4,319.56	193.51	23.322		
7,800.00	6,482.17	6,435.17	6,435.17	84.87	111.34	91.54	-2,506.46	5,356.71	4,514.79	4,318.61	196.19	23.013		
7,900.00	6,560.28	6,513.28	6,513.28	86.20	112.70	92.16	-2,506.46	5,356.71	4,517.37	4,318.52	198.84	22.718		
8,000.00	6,638.40	6,608.60	6,591.40	87.53	114.36	92.78	-2,506.46	5,356.71	4,520.81	4,319.02	201.79	22.404		
8,100.00	6,716.52	6,669.52	6,669.52	88.86	115.43	93.39	-2,506.46	5,356.71	4,525.10	4,320.99	204.12	22.169		
8,200.00	6,794.63	6,747.63	6,747.63	90.20	116.79	94.01	-2,506.46	5,356.71	4,530.26	4,323.53	206.73	21.914		
8,300.00	6,872.75	6,825.75	6,825.75	91.53	118.15	94.63	-2,506.46	5,356.71	4,536.26	4,326.94	209.32	21.671		
8,400.00	6,950.87	6,903.87	6,903.87	92.86	119.52	95.24	-2,506.46	5,356.71	4,543.12	4,331.22	211.90	21.440		
8,500.00	7,028.98	6,981.98	6,981.98	94.19	120.88	95.85	-2,506.46	5,356.71	4,550.82	4,336.36	214.46	21.220		
8,600.00	7,107.10	7,060.10	7,060.10	95.52	122.24	96.47	-2,506.46	5,356.71	4,559.37	4,342.37	217.00	21.011		
8,647.91	7,144.53	7,102.47	7,097.53	96.16	122.98	96.76	-2,506.46	5,356.71	4,563.76	4,345.46	218.30	20.906		
8,650.00	7,146.16	7,100.84	7,099.16	96.18	122.96	96.53	-2,506.46	5,356.71	4,563.95	4,345.66	218.29	20.907		
8,700.00	7,185.66	7,138.66	7,138.66	96.84	123.62	97.11	-2,506.46	5,356.71	4,566.45	4,346.92	219.53	20.801		
8,750.00	7,225.78	7,178.78	7,178.78	97.47	124.32	97.78	-2,506.46	5,356.71	4,568.89	4,348.10	220.79	20.675		
8,800.00	7,266.21	7,219.21	7,219.21	98.08	125.02	98.39	-2,506.46	5,356.71	4,569.27	4,337.23	222.04	20.533		
8,850.00	7,306.63	7,259.63	7,259.63	98.64	125.73	99.02	-2,506.46	5,356.71	4,569.62	4,326.36	223.27	20.377		
8,900.00	7,346.75	7,300.25	7,299.75	99.17	126.44	99.69	-2,506.46	5,356.71	4,535.99	4,311.52	224.47	20.208		
8,950.00	7,386.25	7,339.25	7,339.25	99.64	127.12	100.26	-2,506.46	5,356.71	4,518.45	4,292.85	225.60	20.028		
9,000.00	7,424.84	7,377.84	7,377.84	100.06	127.79	100.86	-2,506.46	5,356.71	4,497.13	4,270.43	226.69	19.838		
9,050.00	7,462.22	7,415.22	7,415.22	100.42	128.44	101.47	-2,506.46	5,356.71	4,472.14	4,244.42	227.72	19.639		
9,100.00	7,498.11	7,451.11	7,451.11	100.74	129.07	102.08	-2,506.46	5,356.71	4,443.67	4,214.99	228.68	19.432		
9,150.00	7,532.24	7,485.24	7,485.24	100.99	129.66	102.69	-2,506.46	5,356.71	4,411.89	4,182.32	229.57	19.218		
9,200.00	7,564.34	7,517.34	7,517.34	101.19	130.22	103.30	-2,506.46	5,356.71	4,377.03	4,146.65	230.37	19.000		
9,250.00	7,594.17	7,547.17	7,547.17	101.34	130.75	103.91	-2,506.46	5,356.71	4,339.32	4,108.22	231.10	18.777		
9,300.00	7,621.50	7,574.50	7,574.50	101.45	131.22	104.52	-2,506.46	5,356.71	4,299.04	4,067.30	231.74	18.551		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,600.87	7,599.13	101.50	131.68	20.78	-2,506.46	5,356.71	4,256.47	4,024.15	232.32	18.322		
9,400.00	7,667.87	7,620.87	7,620.87	101.51	132.03	15.62	-2,506.46	5,356.71	4,211.92	3,979.17	232.75	18.096		
9,450.00	7,686.55	7,639.55	7,639.55	101.48	132.36	8.98	-2,506.46	5,356.71	4,165.72	3,932.59	233.13	17.869		
9,500.00	7,702.04	7,655.04	7,655.04	101.42	132.63	-0.50	-2,506.46	5,356.71	4,118.21	3,884.80	233.41	17.644		
9,550.00	7,714.20	7,667.20	7,667.20	101.33	132.84	-15.30	-2,506.46	5,356.71	4,069.75	3,836.15	233.60	17.422		
9,600.00	7,722.96	7,675.96	7,675.96	101.20	132.99	-38.46	-2,506.46	5,356.71	4,020.71	3,787.00	233.71	17.204		
9,650.00	7,728.24	7,681.24	7,681.24	101.06	133.09	-67.01	-2,506.46	5,356.71	3,971.48	3,737.75	233.73	16.992		
9,699.97	7,730.00	7,683.00	7,683.00	100.90	133.12	-90.00	-2,506.46	5,356.71	3,922.47	3,688.80	233.67	16.786		
9,800.00	7,730.00	7,683.00	7,683.00	100.56	133.12	-90.00	-2,506.46	5,356.71	3,824.88	3,591.42	233.46	16.384		
9,900.00	7,730.00	7,683.00	7,683.00	100.24	133.12	-90.00	-2,506.46	5,356.71	3,727.45	3,494.21	233.23	15.982		
10,000.00	7,730.00	7,683.00	7,683.00	99.93	133.12	-90.00	-2,506.46	5,356.71	3,630.15	3,397.16	233.00	15.580		
10,100.00	7,730.00	7,683.00	7,683.00	99.64	133.12	-90.00	-2,506.46	5,356.71	3,533.01	3,300.27	232.74	15.180		
10,200.00	7,730.00	7,683.00	7,683.00	99.36	133.12	-90.00	-2,506.46	5,356.71	3,436.03	3,203.55	232.47	14.780		
10,300.00	7,730.00	7,683.00	7,683.00	99.09	133.12	-90.00	-2,506.46	5,356.71	3,339.23	3,107.04	232.19	14.382		
10,400.00	7,730.00	7,683.00	7,683.00	98.84	133.12	-90.00	-2,506.46	5,356.71	3,242.62	3,010.74	231.88	13.984		
10,500.00	7,730.00	7,683.00	7,683.00	98.61	133.12	-90.00	-2,506.46	5,356.71	3,146.22	2,914.67	231.55	13.588		
10,600.00	7,730.00	7,683.00	7,683.00	98.39	133.12	-90.00	-2,506.46	5,356.71	3,050.06	2,818.86	231.20	13.192		
10,700.00	7,730.00	7,683.00	7,683.00	98.18	133.12	-90.00	-2,506.46	5,356.71	2,954.15	2,723.34	230.82	12.799		
10,800.00	7,730.00	7,683.00	7,683.00	97.99	133.12	-90.00	-2,506.46	5,356.71	2,858.52	2,628.12	230.41	12.406		
10,900.00	7,730.00	7,683.00	7,683.00	97.81	133.12	-90.00	-2,506.46	5,356.71	2,763.21	2,533.24	229.97	12.016		
11,000.00	7,730.00	7,683.00	7,683.00	97.64	133.12	-90.00	-2,506.46	5,356.71	2,668.23	2,438.74	229.49	11.627		
11,100.00	7,730.00	7,683.00	7,683.00	97.50	133.12	-90.00	-2,506.46	5,356.71	2,573.64	2,344.67	228.97	11.240		
11,200.00	7,730.00	7,683.00	7,683.00	97.36	133.12	-90.00	-2,506.46	5,356.71	2,479.46	2,251.07	228.40	10.856		
11,300.00	7,730.00	7,683.00	7,683.00	97.24	133.12	-90.00	-2,506.46	5,356.71	2,385.77	2,157.99	227.78	10.474		
11,400.00	7,730.00	7,683.00	7,683.00	97.14	133.12	-90.00	-2,506.46	5,356.71	2,292.60	2,065.50	227.10	10.095		
11,500.00	7,730.00	7,683.00	7,683.00	97.06	133.12	-90.00	-2,506.46	5,356.71	2,200.04	1,973.68	226.36	9.719		
11,600.00	7,730.00	7,683.00	7,683.00	96.98	133.12	-90.00	-2,506.46	5,356.71	2,108.16	1,882.62	225.54	9.347		
11,700.00	7,730.00	7,683.00	7,683.00	96.93	133.12	-90.00	-2,506.46	5,356.71	2,017.05	1,792.42	224.63	8.979		
11,800.00	7,730.00	7,683.00	7,683.00	96.90	133.12	-90.00	-2,506.46	5,356.71	1,926.82	1,703.19	223.62	8.616		
11,900.00	7,730.00	7,683.00	7,683.00	96.88	133.12	-90.00	-2,506.46	5,356.71	1,837.60	1,615.09	222.51	8.259		
12,000.00	7,730.00	7,683.00	7,683.00	96.88	133.12	-90.00	-2,506.46	5,356.71	1,749.55	1,528.28	221.26	7.907		
12,100.00	7,730.00	7,683.00	7,683.00	96.90	133.12	-90.00	-2,506.46	5,356.71	1,662.85	1,442.97	219.87	7.563		
12,200.00	7,730.00	7,683.00	7,683.00	96.94	133.12	-90.00	-2,506.46	5,356.71	1,577.72	1,359.40	218.32	7.227		
12,300.00	7,730.00	7,683.00	7,683.00	97.00	133.12	-90.00	-2,506.46	5,356.71	1,494.44	1,277.86	216.58	6.900		
12,400.00	7,730.00	7,683.00	7,683.00	97.08	133.12	-90.00	-2,506.46	5,356.71	1,413.33	1,198.69	214.64	6.585		
12,500.00	7,730.00	7,683.00	7,683.00	97.18	133.12	-90.00	-2,506.46	5,356.71	1,334.78	1,122.30	212.48	6.282		
12,600.00	7,730.00	7,683.00	7,683.00	97.31	133.12	-90.00	-2,506.46	5,356.71	1,259.28	1,049.17	210.11	5.994		
12,700.00	7,730.00	7,683.00	7,683.00	97.46	133.12	-90.00	-2,506.46	5,356.71	1,187.40	979.88	207.52	5.722		
12,800.00	7,730.00	7,683.00	7,683.00	97.64	133.12	-90.00	-2,506.46	5,356.71	1,119.86	915.07	204.79	5.468		
12,900.00	7,730.00	7,683.00	7,683.00	97.85	133.12	-90.00	-2,506.46	5,356.71	1,057.46	855.45	202.01	5.235		
13,000.00	7,730.00	7,683.00	7,683.00	98.09	133.12	-90.00	-2,506.46	5,356.71	1,001.18	801.80	199.38	5.021		
13,100.00	7,730.00	7,683.00	7,683.00	98.35	133.12	-90.00	-2,506.46	5,356.71	952.11	754.88	197.23	4.827		
13,200.00	7,730.00	7,683.00	7,683.00	98.65	133.12	-90.00	-2,506.46	5,356.71	911.40	715.44	195.96	4.651		
13,300.00	7,730.00	7,683.00	7,683.00	98.98	133.12	-90.00	-2,506.46	5,356.71	880.23	684.22	196.01	4.491		
13,400.00	7,730.00	7,683.00	7,683.00	99.34	133.12	-90.00	-2,506.46	5,356.71	859.62	661.96	197.66	4.349		
13,500.00	7,730.00	7,683.00	7,683.00	99.74	133.12	-90.00	-2,506.46	5,356.71	850.35	649.45	200.90	4.233		
13,529.27	7,730.00	7,683.00	7,683.00	99.86	133.12	-90.00	-2,506.46	5,356.71	849.85	647.74	202.11	4.205 CC		
13,600.00	7,730.00	7,683.00	7,683.00	100.17	133.12	-90.00	-2,506.46	5,356.71	852.78	647.41	205.37	4.152 ES		
13,700.00	7,730.00	7,683.00	7,683.00	100.65	133.12	-90.00	-2,506.46	5,356.71	866.83	656.32	210.51	4.118 SF		
13,800.00	7,730.00	7,683.00	7,683.00	101.16	133.12	-90.00	-2,506.46	5,356.71	891.93	676.16	215.77	4.134		
13,900.00	7,730.00	7,683.00	7,683.00	101.71	133.12	-90.00	-2,506.46	5,356.71	927.19	706.46	220.73	4.201		
14,000.00	7,730.00	7,683.00	7,683.00	102.30	133.12	-90.00	-2,506.46	5,356.71	971.51	746.36	225.15	4.315		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,683.00	7,683.00	102.93	133.12	-90.00	-2,506.46	5,356.71	1,023.70	794.78	228.92	4.472		
14,200.00	7,730.00	7,683.00	7,683.00	103.60	133.12	-90.00	-2,506.46	5,356.71	1,082.64	850.58	232.06	4.665		
14,300.00	7,730.00	7,683.00	7,683.00	104.32	133.12	-90.00	-2,506.46	5,356.71	1,147.28	912.66	234.62	4.890		
14,400.00	7,730.00	7,683.00	7,683.00	105.07	133.12	-90.00	-2,506.46	5,356.71	1,216.72	980.04	236.68	5.141		
14,500.00	7,730.00	7,683.00	7,683.00	105.86	133.12	-90.00	-2,506.46	5,356.71	1,290.17	1,051.84	238.33	5.413		
14,600.00	7,730.00	7,683.00	7,683.00	106.70	133.12	-90.00	-2,506.46	5,356.71	1,367.00	1,127.36	239.64	5.704		
14,700.00	7,730.00	7,683.00	7,683.00	107.57	133.12	-90.00	-2,506.46	5,356.71	1,446.67	1,205.98	240.69	6.011		
14,800.00	7,730.00	7,683.00	7,683.00	108.48	133.12	-90.00	-2,506.46	5,356.71	1,528.72	1,287.21	241.51	6.330		
14,900.00	7,730.00	7,683.00	7,683.00	109.43	133.12	-90.00	-2,506.46	5,356.71	1,612.80	1,370.64	242.17	6.660		
15,000.00	7,730.00	7,683.00	7,683.00	110.42	133.12	-90.00	-2,506.46	5,356.71	1,698.61	1,455.93	242.68	6.999		
15,100.00	7,730.00	7,683.00	7,683.00	111.43	133.12	-90.00	-2,506.46	5,356.71	1,785.90	1,542.80	243.09	7.347		
15,200.00	7,730.00	7,683.00	7,683.00	112.49	133.12	-90.00	-2,506.46	5,356.71	1,874.45	1,631.04	243.41	7.701		
15,300.00	7,730.00	7,683.00	7,683.00	113.57	133.12	-90.00	-2,506.46	5,356.71	1,964.11	1,720.44	243.67	8.061		
15,400.00	7,730.00	7,683.00	7,683.00	114.68	133.12	-90.00	-2,506.46	5,356.71	2,054.72	1,810.85	243.86	8.426		
15,500.00	7,730.00	7,683.00	7,683.00	115.82	133.12	-90.00	-2,506.46	5,356.71	2,146.16	1,902.15	244.01	8.795		
15,600.00	7,730.00	7,683.00	7,683.00	116.99	133.12	-90.00	-2,506.46	5,356.71	2,238.34	1,994.21	244.13	9.169		
15,700.00	7,730.00	7,683.00	7,683.00	118.19	133.12	-90.00	-2,506.46	5,356.71	2,331.16	2,086.94	244.22	9.545		
15,800.00	7,730.00	7,683.00	7,683.00	119.41	133.12	-90.00	-2,506.46	5,356.71	2,424.55	2,180.27	244.28	9.925		
15,900.00	7,730.00	7,683.00	7,683.00	120.65	133.12	-90.00	-2,506.46	5,356.71	2,518.45	2,274.12	244.33	10.308		
16,000.00	7,730.00	7,683.00	7,683.00	121.91	133.12	-90.00	-2,506.46	5,356.71	2,612.80	2,368.45	244.36	10.693		
16,100.00	7,730.00	7,683.00	7,683.00	123.20	133.12	-90.00	-2,506.46	5,356.71	2,707.56	2,463.19	244.37	11.080		
16,200.00	7,730.00	7,683.00	7,683.00	124.50	133.12	-90.00	-2,506.46	5,356.71	2,802.68	2,558.30	244.38	11.468		
16,300.00	7,730.00	7,683.00	7,683.00	125.82	133.12	-90.00	-2,506.46	5,356.71	2,898.13	2,653.75	244.38	11.859		
16,400.00	7,730.00	7,683.00	7,683.00	127.16	133.12	-90.00	-2,506.46	5,356.71	2,993.88	2,749.51	244.37	12.251		
16,500.00	7,730.00	7,683.00	7,683.00	128.52	133.12	-90.00	-2,506.46	5,356.71	3,089.90	2,845.54	244.36	12.645		
16,600.00	7,730.00	7,683.00	7,683.00	129.89	133.12	-90.00	-2,506.46	5,356.71	3,186.16	2,941.81	244.35	13.040		
16,700.00	7,730.00	7,683.00	7,683.00	131.27	133.12	-90.00	-2,506.46	5,356.71	3,282.64	3,038.32	244.33	13.435		
16,800.00	7,730.00	7,683.00	7,683.00	132.67	133.12	-90.00	-2,506.46	5,356.71	3,379.33	3,135.03	244.30	13.832		
16,900.00	7,730.00	7,683.00	7,683.00	134.09	133.12	-90.00	-2,506.46	5,356.71	3,476.21	3,231.93	244.28	14.230		
17,000.00	7,730.00	7,683.00	7,683.00	135.51	133.12	-90.00	-2,506.46	5,356.71	3,573.26	3,329.00	244.26	14.629		
17,100.00	7,730.00	7,683.00	7,683.00	136.95	133.12	-90.00	-2,506.46	5,356.71	3,670.47	3,426.24	244.23	15.029		
17,200.00	7,730.00	7,683.00	7,683.00	138.40	133.12	-90.00	-2,506.46	5,356.71	3,767.82	3,523.62	244.20	15.429		
17,300.00	7,730.00	7,683.00	7,683.00	139.85	133.12	-90.00	-2,506.46	5,356.71	3,865.31	3,621.13	244.18	15.830		
17,400.00	7,730.00	7,683.00	7,683.00	141.32	133.12	-90.00	-2,506.46	5,356.71	3,962.93	3,718.77	244.15	16.231		
17,500.00	7,730.00	7,683.00	7,683.00	142.80	133.12	-90.00	-2,506.46	5,356.71	4,060.66	3,816.53	244.12	16.634		
17,600.00	7,730.00	7,683.00	7,683.00	144.28	133.12	-90.00	-2,506.46	5,356.71	4,158.49	3,914.39	244.10	17.036		
17,700.00	7,730.00	7,683.00	7,683.00	145.78	133.12	-90.00	-2,506.46	5,356.71	4,256.43	4,012.36	244.07	17.439		
17,800.00	7,730.00	7,683.00	7,683.00	147.28	133.12	-90.00	-2,506.46	5,356.71	4,354.46	4,110.42	244.05	17.843		
17,900.00	7,730.00	7,683.00	7,683.00	148.79	133.12	-90.00	-2,506.46	5,356.71	4,452.58	4,208.56	244.02	18.247		
18,000.00	7,730.00	7,683.00	7,683.00	150.31	133.12	-90.00	-2,506.46	5,356.71	4,550.79	4,306.79	244.00	18.651		
18,100.00	7,730.00	7,683.00	7,683.00	151.83	133.12	-90.00	-2,506.46	5,356.71	4,649.06	4,405.09	243.98	19.055		
18,200.00	7,730.00	7,683.00	7,683.00	153.37	133.12	-90.00	-2,506.46	5,356.71	4,747.41	4,503.46	243.95	19.460		
18,300.00	7,730.00	7,683.00	7,683.00	154.90	133.12	-90.00	-2,506.46	5,356.71	4,845.83	4,601.90	243.93	19.866		
18,400.00	7,730.00	7,683.00	7,683.00	156.45	133.12	-90.00	-2,506.46	5,356.71	4,944.31	4,700.40	243.91	20.271		
18,500.00	7,730.00	7,683.00	7,683.00	158.00	133.12	-90.00	-2,506.46	5,356.71	5,042.85	4,798.96	243.89	20.677		
18,600.00	7,730.00	7,683.00	7,683.00	159.55	133.12	-90.00	-2,506.46	5,356.71	5,141.45	4,897.58	243.87	21.083		
18,700.00	7,730.00	7,683.00	7,683.00	161.11	133.12	-90.00	-2,506.46	5,356.71	5,240.10	4,996.25	243.85	21.489		
18,800.00	7,730.00	7,683.00	7,683.00	162.68	133.12	-90.00	-2,506.46	5,356.71	5,338.80	5,094.97	243.84	21.895		
18,900.00	7,730.00	7,683.00	7,683.00	164.25	133.12	-90.00	-2,506.46	5,356.71	5,437.55	5,193.73	243.82	22.301		
19,000.00	7,730.00	7,683.00	7,683.00	165.83	133.12	-90.00	-2,506.46	5,356.71	5,536.34	5,292.54	243.80	22.708		
19,100.00	7,730.00	7,683.00	7,683.00	167.41	133.12	-90.00	-2,506.46	5,356.71	5,635.18	5,391.39	243.79	23.115		
19,200.00	7,730.00	7,683.00	7,683.00	168.99	133.12	-90.00	-2,506.46	5,356.71	5,734.06	5,490.28	243.78	23.522		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 23-T1N-R68W - EXIST VERT HELEN E UNIT 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,683.00	7,683.00	170.58	133.12	-90.00	-2,506.46	5,356.71	5,832.97	5,589.21	243.76	23.929	
19,400.00	7,730.00	7,683.00	7,683.00	172.17	133.12	-90.00	-2,506.46	5,356.71	5,931.92	5,688.17	243.75	24.336	
19,430.54	7,730.00	7,683.00	7,683.00	172.66	133.12	-90.00	-2,506.46	5,356.71	5,962.14	5,718.39	243.75	24.460	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	143.84	-4,237.21	3,097.08	5,248.47					
100.00	100.00	75.00	75.00	0.13	0.62	143.84	-4,237.21	3,097.08	5,248.41	5,247.66	0.76	6,940.497		
200.00	200.00	175.00	175.00	0.49	2.14	143.84	-4,237.21	3,097.08	5,248.41	5,245.78	2.63	1,994.890		
300.00	300.00	275.00	275.00	0.85	3.88	143.84	-4,237.21	3,097.08	5,248.41	5,243.68	4.73	1,108.493		
400.00	400.00	375.00	375.00	1.21	5.63	143.84	-4,237.21	3,097.08	5,248.41	5,241.57	6.84	767.477		
500.00	500.00	475.00	475.00	1.57	7.37	143.84	-4,237.21	3,097.08	5,248.41	5,239.47	8.94	586.918		
600.00	599.98	574.98	574.98	1.92	9.12	78.51	-4,237.21	3,097.08	5,248.06	5,237.02	11.04	475.315		
700.00	699.84	674.84	674.84	2.28	10.86	78.59	-4,237.21	3,097.08	5,247.02	5,233.89	13.14	399.384		
800.00	799.45	774.45	774.45	2.64	12.60	78.71	-4,237.21	3,097.08	5,245.30	5,230.06	15.24	344.211		
900.00	898.70	873.70	873.70	3.02	14.33	78.89	-4,237.21	3,097.08	5,242.92	5,225.57	17.35	302.250		
1,000.00	997.47	972.47	972.47	3.41	16.06	79.12	-4,237.21	3,097.08	5,239.90	5,220.43	19.46	269.205		
1,100.00	1,095.62	1,070.62	1,070.62	3.84	17.77	79.39	-4,237.21	3,097.08	5,236.27	5,214.68	21.60	242.458		
1,200.00	1,193.06	1,168.06	1,168.06	4.29	19.47	79.71	-4,237.21	3,097.08	5,232.09	5,208.34	23.75	220.325		
1,300.00	1,289.64	1,264.64	1,264.64	4.78	21.16	80.07	-4,237.21	3,097.08	5,227.39	5,201.47	25.92	201.676		
1,400.00	1,385.27	1,360.27	1,360.27	5.32	22.82	80.47	-4,237.21	3,097.08	5,222.23	5,194.11	28.12	185.725		
1,500.00	1,479.82	1,454.82	1,454.82	5.90	24.48	80.92	-4,237.21	3,097.08	5,216.67	5,186.33	30.35	171.910		
1,600.00	1,573.17	1,548.17	1,548.17	6.53	26.10	81.40	-4,237.21	3,097.08	5,210.78	5,178.18	32.60	159.818		
1,700.00	1,665.21	1,640.21	1,640.21	7.23	27.71	81.91	-4,237.21	3,097.08	5,204.63	5,169.73	34.90	149.139		
1,800.00	1,755.84	1,730.84	1,730.84	7.98	29.29	82.46	-4,237.21	3,097.08	5,198.30	5,161.08	37.23	139.636		
1,900.00	1,844.94	1,819.94	1,819.94	8.80	30.85	83.03	-4,237.21	3,097.08	5,191.88	5,152.28	39.59	131.125		
2,000.00	1,932.39	1,907.39	1,907.39	9.68	32.37	83.62	-4,237.21	3,097.08	5,185.45	5,143.45	42.00	123.460		
2,100.00	2,018.11	2,006.89	1,993.11	10.63	34.11	84.23	-4,237.21	3,097.08	5,179.11	5,134.42	44.69	115.897		
2,200.00	2,101.97	2,076.97	2,076.97	11.65	35.33	84.86	-4,237.21	3,097.08	5,172.95	5,126.02	46.93	110.224		
2,300.00	2,183.88	2,158.88	2,158.88	12.74	36.76	85.50	-4,237.21	3,097.08	5,167.08	5,117.62	49.46	104.480		
2,400.00	2,263.74	2,238.74	2,238.74	13.90	38.16	86.14	-4,237.21	3,097.08	5,161.60	5,109.58	52.02	99.228		
2,431.61	2,288.54	2,263.54	2,263.54	14.29	38.59	86.34	-4,237.21	3,097.08	5,159.96	5,107.13	52.83	97.664		
2,500.00	2,341.97	2,316.97	2,316.97	15.13	39.52	86.71	-4,237.21	3,097.08	5,156.66	5,102.04	54.61	94.426		
2,600.00	2,420.08	2,404.92	2,395.08	16.37	41.06	87.25	-4,237.21	3,097.08	5,152.45	5,095.06	57.40	89.770		
2,700.00	2,498.20	2,473.20	2,473.20	17.63	42.25	87.80	-4,237.21	3,097.08	5,149.01	5,089.15	59.85	86.029		
2,800.00	2,576.32	2,551.32	2,551.32	18.89	43.61	88.34	-4,237.21	3,097.08	5,146.31	5,083.82	62.49	82.355		
2,900.00	2,654.43	2,629.43	2,629.43	20.17	44.98	88.88	-4,237.21	3,097.08	5,144.38	5,079.24	65.14	78.980		
3,000.00	2,732.55	2,707.55	2,707.55	21.45	46.34	89.43	-4,237.21	3,097.08	5,143.20	5,075.41	67.79	75.873		
3,100.00	2,810.67	2,785.67	2,785.67	22.74	47.70	89.97	-4,237.21	3,097.08	5,142.78	5,072.33	70.44	73.007		
3,105.64	2,815.07	2,809.93	2,790.07	22.81	48.13	90.00	-4,237.21	3,097.08	5,142.77	5,071.84	70.94	72.496		
3,200.00	2,888.78	2,863.78	2,863.78	24.03	49.07	90.51	-4,237.21	3,097.08	5,143.11	5,070.01	73.10	70.357		
3,300.00	2,966.90	2,941.90	2,941.90	25.33	50.43	91.06	-4,237.21	3,097.08	5,144.21	5,068.45	75.76	67.902		
3,400.00	3,045.02	3,020.02	3,020.02	26.63	51.79	91.60	-4,237.21	3,097.08	5,146.06	5,067.64	78.42	65.622		
3,500.00	3,123.13	3,101.87	3,098.13	27.94	53.22	92.14	-4,237.21	3,097.08	5,148.66	5,067.52	81.14	63.452		
3,600.00	3,201.25	3,176.25	3,176.25	29.24	54.52	92.68	-4,237.21	3,097.08	5,152.03	5,068.29	83.74	61.528		
3,700.00	3,279.37	3,254.37	3,254.37	30.55	55.88	93.23	-4,237.21	3,097.08	5,156.14	5,069.75	86.39	59.685		
3,800.00	3,357.49	3,332.49	3,332.49	31.86	57.25	93.77	-4,237.21	3,097.08	5,161.01	5,071.97	89.04	57.962		
3,900.00	3,435.60	3,410.60	3,410.60	33.18	58.61	94.31	-4,237.21	3,097.08	5,166.63	5,074.94	91.69	56.350		
4,000.00	3,513.72	3,488.72	3,488.72	34.49	59.97	94.85	-4,237.21	3,097.08	5,173.00	5,078.67	94.33	54.839		
4,100.00	3,591.84	3,566.84	3,566.84	35.81	61.34	95.39	-4,237.21	3,097.08	5,180.11	5,083.14	96.97	53.421		
4,200.00	3,669.95	3,644.95	3,644.95	37.12	62.70	95.92	-4,237.21	3,097.08	5,187.96	5,088.36	99.60	52.089		
4,300.00	3,748.07	3,723.07	3,723.07	38.44	64.06	96.46	-4,237.21	3,097.08	5,196.55	5,094.33	102.22	50.836		
4,400.00	3,826.19	3,801.19	3,801.19	39.76	65.43	97.00	-4,237.21	3,097.08	5,205.88	5,101.04	104.84	49.655		
4,500.00	3,904.30	3,879.30	3,879.30	41.08	66.79	97.53	-4,237.21	3,097.08	5,215.93	5,108.48	107.45	48.543		
4,600.00	3,982.42	3,957.42	3,957.42	42.40	68.15	98.07	-4,237.21	3,097.08	5,226.71	5,116.66	110.05	47.493		
4,700.00	4,060.54	4,035.54	4,035.54	43.72	69.52	98.60	-4,237.21	3,097.08	5,238.22	5,125.57	112.65	46.502		
4,800.00	4,138.66	4,113.66	4,113.66	45.05	70.88	99.13	-4,237.21	3,097.08	5,250.44	5,135.21	115.23	45.565		
4,900.00	4,216.77	4,208.23	4,191.77	46.37	72.53	99.66	-4,237.21	3,097.08	5,263.37	5,145.28	118.09	44.570		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,269.89	4,269.89	47.69	73.61	100.18	-4,237.21	3,097.08	5,277.01	5,156.64	120.37	43.839		
5,100.00	4,373.01	4,348.01	4,348.01	49.02	74.97	100.71	-4,237.21	3,097.08	5,291.35	5,168.43	122.93	43.045		
5,200.00	4,451.12	4,426.12	4,426.12	50.34	76.33	101.23	-4,237.21	3,097.08	5,306.39	5,180.92	125.47	42.291		
5,300.00	4,529.24	4,504.24	4,504.24	51.67	77.70	101.76	-4,237.21	3,097.08	5,322.12	5,194.11	128.01	41.577		
5,400.00	4,607.36	4,582.36	4,582.36	52.99	79.06	102.28	-4,237.21	3,097.08	5,338.53	5,208.00	130.53	40.898		
5,500.00	4,685.47	4,660.47	4,660.47	54.32	80.42	102.79	-4,237.21	3,097.08	5,355.62	5,222.58	133.05	40.254		
5,600.00	4,763.59	4,738.59	4,738.59	55.64	81.79	103.31	-4,237.21	3,097.08	5,373.38	5,237.83	135.55	39.642		
5,700.00	4,841.71	4,816.71	4,816.71	56.97	83.15	103.82	-4,237.21	3,097.08	5,391.81	5,253.77	138.04	39.060		
5,800.00	4,919.83	4,905.17	4,894.83	58.30	84.70	104.33	-4,237.21	3,097.08	5,410.89	5,270.19	140.70	38.458		
5,900.00	4,997.94	4,972.94	4,972.94	59.62	85.88	104.84	-4,237.21	3,097.08	5,430.62	5,287.64	142.98	37.981		
6,000.00	5,076.06	5,051.06	5,051.06	60.95	87.24	105.35	-4,237.21	3,097.08	5,451.00	5,305.56	145.44	37.480		
6,100.00	5,154.18	5,050.00	5,050.00	62.28	87.22	105.34	-4,237.21	3,097.08	5,472.58	5,326.13	146.45	37.368		
6,200.00	5,232.29	5,050.00	5,050.00	63.61	87.22	105.34	-4,237.21	3,097.08	5,495.90	5,348.47	147.44	37.276		
6,300.00	5,310.41	5,050.00	5,050.00	64.93	87.22	105.34	-4,237.21	3,097.08	5,520.94	5,372.55	148.39	37.207		
6,400.00	5,388.53	5,050.00	5,050.00	66.26	87.22	105.34	-4,237.21	3,097.08	5,547.66	5,398.37	149.29	37.161		
6,500.00	5,466.64	5,050.00	5,050.00	67.59	87.22	105.34	-4,237.21	3,097.08	5,576.05	5,425.90	150.15	37.137		
6,600.00	5,544.76	5,050.00	5,050.00	68.92	87.22	105.34	-4,237.21	3,097.08	5,606.08	5,455.12	150.97	37.135		
6,700.00	5,622.88	5,050.00	5,050.00	70.25	87.22	105.34	-4,237.21	3,097.08	5,637.73	5,485.98	151.74	37.153		
6,800.00	5,701.00	5,050.00	5,050.00	71.58	87.22	105.34	-4,237.21	3,097.08	5,670.96	5,518.48	152.48	37.192		
6,900.00	5,779.11	5,050.00	5,050.00	72.91	87.22	105.34	-4,237.21	3,097.08	5,705.75	5,552.57	153.17	37.250		
7,000.00	5,857.23	5,050.00	5,050.00	74.23	87.22	105.34	-4,237.21	3,097.08	5,742.07	5,588.24	153.83	37.327		
7,100.00	5,935.35	5,050.00	5,050.00	75.56	87.22	105.34	-4,237.21	3,097.08	5,779.89	5,625.44	154.45	37.423		
7,200.00	6,013.46	5,050.00	5,050.00	76.89	87.22	105.34	-4,237.21	3,097.08	5,819.19	5,664.16	155.03	37.537		
7,300.00	6,091.58	5,050.00	5,050.00	78.22	87.22	105.34	-4,237.21	3,097.08	5,859.92	5,704.35	155.57	37.667		
7,400.00	6,169.70	5,050.00	5,050.00	79.55	87.22	105.34	-4,237.21	3,097.08	5,902.08	5,746.00	156.08	37.815		
7,500.00	6,247.81	5,050.00	5,050.00	80.88	87.22	105.34	-4,237.21	3,097.08	5,945.61	5,789.06	156.55	37.978		
7,600.00	6,325.93	5,050.00	5,050.00	82.21	87.22	105.34	-4,237.21	3,097.08	5,990.50	5,833.51	156.99	38.158		
7,700.00	6,404.05	5,050.00	5,050.00	83.54	87.22	105.34	-4,237.21	3,097.08	6,036.71	5,879.31	157.40	38.352		
7,800.00	6,482.17	5,050.00	5,050.00	84.87	87.22	105.34	-4,237.21	3,097.08	6,084.22	5,926.44	157.78	38.562		
7,900.00	6,560.28	5,050.00	5,050.00	86.20	87.22	105.34	-4,237.21	3,097.08	6,132.98	5,974.86	158.13	38.785		
8,000.00	6,638.40	5,050.00	5,050.00	87.53	87.22	105.34	-4,237.21	3,097.08	6,182.98	6,024.54	158.45	39.023		
8,100.00	6,716.52	5,050.00	5,050.00	88.86	87.22	105.34	-4,237.21	3,097.08	6,234.19	6,075.45	158.74	39.273		
8,200.00	6,794.63	5,050.00	5,050.00	90.20	87.22	105.34	-4,237.21	3,097.08	6,286.56	6,127.56	159.00	39.537		
8,300.00	6,872.75	5,050.00	5,050.00	91.53	87.22	105.34	-4,237.21	3,097.08	6,340.08	6,180.84	159.25	39.813		
8,400.00	6,950.87	5,050.00	5,050.00	92.86	87.22	105.34	-4,237.21	3,097.08	6,394.72	6,235.26	159.46	40.102		
8,500.00	7,028.98	5,050.00	5,050.00	94.19	87.22	105.34	-4,237.21	3,097.08	6,450.45	6,290.79	159.66	40.402		
8,600.00	7,107.10	5,050.00	5,050.00	95.52	87.22	105.34	-4,237.21	3,097.08	6,507.23	6,347.40	159.83	40.714		
8,647.91	7,144.53	5,050.00	5,050.00	96.16	87.22	105.34	-4,237.21	3,097.08	6,534.80	6,374.90	159.90	40.867		
8,650.00	7,146.16	5,050.00	5,050.00	96.18	87.22	105.11	-4,237.21	3,097.08	6,536.01	6,376.10	159.91	40.874		
8,700.00	7,185.66	5,050.00	5,050.00	96.84	87.22	99.18	-4,237.21	3,097.08	6,563.09	6,403.11	159.98	41.024		
8,750.00	7,225.78	5,050.00	5,050.00	97.47	87.22	92.76	-4,237.21	3,097.08	6,586.70	6,426.66	160.05	41.155		
8,800.00	7,266.21	5,050.00	5,050.00	98.08	87.22	86.06	-4,237.21	3,097.08	6,606.71	6,446.61	160.10	41.265		
8,850.00	7,306.63	5,050.00	5,050.00	98.64	87.22	79.33	-4,237.21	3,097.08	6,623.00	6,462.85	160.15	41.355		
8,900.00	7,346.75	5,050.00	5,050.00	99.17	87.22	72.80	-4,237.21	3,097.08	6,635.46	6,475.29	160.18	41.426		
8,950.00	7,386.25	5,050.00	5,050.00	99.64	87.22	66.68	-4,237.21	3,097.08	6,644.03	6,483.85	160.18	41.478		
9,000.00	7,424.84	5,050.00	5,050.00	100.06	87.22	61.10	-4,237.21	3,097.08	6,648.66	6,488.49	160.16	41.511		
9,050.00	7,462.22	5,050.00	5,050.00	100.42	87.22	56.12	-4,237.21	3,097.08	6,649.31	6,489.19	160.12	41.527		
9,100.00	7,498.11	5,050.00	5,050.00	100.74	87.22	51.75	-4,237.21	3,097.08	6,645.99	6,485.94	160.05	41.525		
9,150.00	7,532.24	5,050.00	5,050.00	100.99	87.22	47.95	-4,237.21	3,097.08	6,638.71	6,478.76	159.95	41.504		
9,200.00	7,564.34	5,050.00	5,050.00	101.19	87.22	44.66	-4,237.21	3,097.08	6,627.52	6,467.69	159.83	41.467		
9,250.00	7,594.17	5,050.00	5,050.00	101.34	87.22	41.83	-4,237.21	3,097.08	6,612.48	6,452.80	159.68	41.411		
9,300.00	7,621.50	5,050.00	5,050.00	101.45	87.22	39.40	-4,237.21	3,097.08	6,593.68	6,434.17	159.51	41.338		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,050.00	5,050.00	101.50	87.22	37.31	-4,237.21	3,097.08	6,571.23	6,411.92	159.31	41.248		
9,400.00	7,667.87	5,050.00	5,050.00	101.51	87.22	35.50	-4,237.21	3,097.08	6,545.27	6,386.17	159.10	41.139		
9,450.00	7,686.55	5,050.00	5,050.00	101.48	87.22	33.94	-4,237.21	3,097.08	6,515.95	6,357.08	158.88	41.013		
9,500.00	7,702.04	5,050.00	5,050.00	101.42	87.22	32.56	-4,237.21	3,097.08	6,483.46	6,324.82	158.64	40.868		
9,550.00	7,714.20	5,050.00	5,050.00	101.33	87.22	31.33	-4,237.21	3,097.08	6,447.99	6,289.58	158.40	40.706		
9,600.00	7,722.96	5,050.00	5,050.00	101.20	87.22	30.20	-4,237.21	3,097.08	6,409.76	6,251.60	158.17	40.526		
9,650.00	7,728.24	5,050.00	5,050.00	101.06	87.22	29.08	-4,237.21	3,097.08	6,369.03	6,211.10	157.93	40.327		
9,699.97	7,730.00	5,050.00	5,050.00	100.90	87.22	27.87	-4,237.21	3,097.08	6,326.08	6,168.37	157.71	40.112		
9,800.00	7,730.00	5,050.00	5,050.00	100.56	87.22	27.87	-4,237.21	3,097.08	6,238.22	6,080.95	157.27	39.665		
9,900.00	7,730.00	5,050.00	5,050.00	100.24	87.22	27.87	-4,237.21	3,097.08	6,150.76	5,993.95	156.81	39.224		
10,000.00	7,730.00	5,050.00	5,050.00	99.93	87.22	27.87	-4,237.21	3,097.08	6,063.69	5,907.35	156.34	38.786		
10,100.00	7,730.00	5,050.00	5,050.00	99.64	87.22	27.87	-4,237.21	3,097.08	5,977.02	5,821.18	155.85	38.352		
10,200.00	7,730.00	5,050.00	5,050.00	99.36	87.22	27.87	-4,237.21	3,097.08	5,890.78	5,735.44	155.34	37.923		
10,300.00	7,730.00	5,050.00	5,050.00	99.09	87.22	27.87	-4,237.21	3,097.08	5,804.98	5,650.17	154.81	37.498		
10,400.00	7,730.00	5,050.00	5,050.00	98.84	87.22	27.87	-4,237.21	3,097.08	5,719.63	5,565.38	154.26	37.078		
10,500.00	7,730.00	5,050.00	5,050.00	98.61	87.22	27.87	-4,237.21	3,097.08	5,634.77	5,481.09	153.69	36.664		
10,600.00	7,730.00	5,050.00	5,050.00	98.39	87.22	27.87	-4,237.21	3,097.08	5,550.42	5,397.32	153.10	36.254		
10,700.00	7,730.00	5,050.00	5,050.00	98.18	87.22	27.87	-4,237.21	3,097.08	5,466.59	5,314.11	152.48	35.851		
10,800.00	7,730.00	5,050.00	5,050.00	97.99	87.22	27.87	-4,237.21	3,097.08	5,383.31	5,231.47	151.85	35.453		
10,900.00	7,730.00	5,050.00	5,050.00	97.81	87.22	27.87	-4,237.21	3,097.08	5,300.62	5,149.43	151.18	35.061		
11,000.00	7,730.00	5,050.00	5,050.00	97.64	87.22	27.87	-4,237.21	3,097.08	5,218.52	5,068.03	150.50	34.676		
11,100.00	7,730.00	5,050.00	5,050.00	97.50	87.22	27.87	-4,237.21	3,097.08	5,137.07	4,987.29	149.78	34.297		
11,200.00	7,730.00	5,050.00	5,050.00	97.36	87.22	27.87	-4,237.21	3,097.08	5,056.28	4,907.24	149.04	33.926		
11,300.00	7,730.00	5,050.00	5,050.00	97.24	87.22	27.87	-4,237.21	3,097.08	4,976.18	4,827.92	148.27	33.562		
11,400.00	7,730.00	5,050.00	5,050.00	97.14	87.22	27.87	-4,237.21	3,097.08	4,896.82	4,749.36	147.47	33.206		
11,500.00	7,730.00	5,050.00	5,050.00	97.06	87.22	27.87	-4,237.21	3,097.08	4,818.23	4,671.59	146.63	32.859		
11,600.00	7,730.00	5,050.00	5,050.00	96.98	87.22	27.87	-4,237.21	3,097.08	4,740.44	4,594.67	145.77	32.520		
11,700.00	7,730.00	5,050.00	5,050.00	96.93	87.22	27.87	-4,237.21	3,097.08	4,663.50	4,518.63	144.87	32.190		
11,800.00	7,730.00	5,050.00	5,050.00	96.90	87.22	27.87	-4,237.21	3,097.08	4,587.45	4,443.51	143.94	31.871		
11,900.00	7,730.00	5,050.00	5,050.00	96.88	87.22	27.87	-4,237.21	3,097.08	4,512.34	4,369.36	142.97	31.561		
12,000.00	7,730.00	5,050.00	5,050.00	96.88	87.22	27.87	-4,237.21	3,097.08	4,438.20	4,296.23	141.97	31.262		
12,100.00	7,730.00	5,050.00	5,050.00	96.90	87.22	27.87	-4,237.21	3,097.08	4,365.10	4,224.17	140.93	30.974		
12,200.00	7,730.00	5,050.00	5,050.00	96.94	87.22	27.87	-4,237.21	3,097.08	4,293.09	4,153.23	139.85	30.697		
12,300.00	7,730.00	5,050.00	5,050.00	97.00	87.22	27.87	-4,237.21	3,097.08	4,222.21	4,083.47	138.74	30.433		
12,400.00	7,730.00	5,050.00	5,050.00	97.08	87.22	27.87	-4,237.21	3,097.08	4,152.53	4,014.95	137.58	30.182		
12,500.00	7,730.00	5,050.00	5,050.00	97.18	87.22	27.87	-4,237.21	3,097.08	4,084.11	3,947.72	136.39	29.944		
12,600.00	7,730.00	5,050.00	5,050.00	97.31	87.22	27.87	-4,237.21	3,097.08	4,017.02	3,881.86	135.16	29.720		
12,700.00	7,730.00	5,050.00	5,050.00	97.46	87.22	27.87	-4,237.21	3,097.08	3,951.32	3,817.42	133.90	29.510		
12,800.00	7,730.00	5,050.00	5,050.00	97.64	87.22	27.87	-4,237.21	3,097.08	3,887.08	3,754.49	132.59	29.316		
12,900.00	7,730.00	5,050.00	5,050.00	97.85	87.22	27.87	-4,237.21	3,097.08	3,824.38	3,693.12	131.26	29.136		
13,000.00	7,730.00	5,050.00	5,050.00	98.09	87.22	27.87	-4,237.21	3,097.08	3,763.29	3,633.40	129.89	28.973		
13,100.00	7,730.00	5,050.00	5,050.00	98.35	87.22	27.87	-4,237.21	3,097.08	3,703.89	3,575.39	128.49	28.826		
13,200.00	7,730.00	5,050.00	5,050.00	98.65	87.22	27.87	-4,237.21	3,097.08	3,646.27	3,519.19	127.07	28.695		
13,300.00	7,730.00	5,050.00	5,050.00	98.98	87.22	27.87	-4,237.21	3,097.08	3,590.50	3,464.88	125.63	28.580		
13,400.00	7,730.00	5,050.00	5,050.00	99.34	87.22	27.87	-4,237.21	3,097.08	3,536.69	3,412.52	124.17	28.483		
13,500.00	7,730.00	5,050.00	5,050.00	99.74	87.22	27.87	-4,237.21	3,097.08	3,484.92	3,362.21	122.70	28.401		
13,600.00	7,730.00	5,050.00	5,050.00	100.17	87.22	27.87	-4,237.21	3,097.08	3,435.28	3,314.04	121.24	28.335		
13,700.00	7,730.00	5,050.00	5,050.00	100.65	87.22	27.87	-4,237.21	3,097.08	3,387.86	3,268.08	119.78	28.285		
13,800.00	7,730.00	5,050.00	5,050.00	101.16	87.22	27.87	-4,237.21	3,097.08	3,342.76	3,224.42	118.34	28.248		
13,900.00	7,730.00	5,050.00	5,050.00	101.71	87.22	27.87	-4,237.21	3,097.08	3,300.08	3,183.15	116.93	28.224		
14,000.00	7,730.00	5,050.00	5,050.00	102.30	87.22	27.87	-4,237.21	3,097.08	3,259.91	3,144.35	115.56	28.210		
14,100.00	7,730.00	5,050.00	5,050.00	102.93	87.22	27.87	-4,237.21	3,097.08	3,222.34	3,108.09	114.25	28.205		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,050.00	5,050.00	103.60	87.22	27.87	-4,237.21	3,097.08	3,187.46	3,074.46	113.01	28.206		
14,300.00	7,730.00	5,050.00	5,050.00	104.32	87.22	27.87	-4,237.21	3,097.08	3,155.37	3,043.52	111.85	28.210		
14,400.00	7,730.00	5,050.00	5,050.00	105.07	87.22	27.87	-4,237.21	3,097.08	3,126.16	3,015.35	110.81	28.212		
14,500.00	7,730.00	5,050.00	5,050.00	105.86	87.22	27.87	-4,237.21	3,097.08	3,099.89	2,990.01	109.88	28.211		
14,600.00	7,730.00	5,050.00	5,050.00	106.70	87.22	27.87	-4,237.21	3,097.08	3,076.65	2,967.55	109.10	28.201		
14,700.00	7,730.00	5,050.00	5,050.00	107.57	87.22	27.87	-4,237.21	3,097.08	3,056.51	2,948.04	108.47	28.179		
14,800.00	7,730.00	5,050.00	5,050.00	108.48	87.22	27.87	-4,237.21	3,097.08	3,039.52	2,931.52	108.01	28.142		
14,900.00	7,730.00	5,050.00	5,050.00	109.43	87.22	27.87	-4,237.21	3,097.08	3,025.75	2,918.02	107.73	28.086		
15,000.00	7,730.00	5,050.00	5,050.00	110.42	87.22	27.87	-4,237.21	3,097.08	3,015.23	2,907.58	107.65	28.009		
15,100.00	7,730.00	5,050.00	5,050.00	111.43	87.22	27.87	-4,237.21	3,097.08	3,008.01	2,900.23	107.78	27.909		
15,200.00	7,730.00	5,050.00	5,050.00	112.49	87.22	27.87	-4,237.21	3,097.08	3,004.09	2,895.98	108.11	27.788		
15,267.67	7,730.00	5,050.00	5,050.00	113.22	87.22	27.87	-4,237.21	3,097.08	3,003.33	2,894.88	108.45	27.693 CC		
15,300.00	7,730.00	5,050.00	5,050.00	113.57	87.22	27.87	-4,237.21	3,097.08	3,003.50	2,894.86	108.65	27.644 ES		
15,400.00	7,730.00	5,050.00	5,050.00	114.68	87.22	27.87	-4,237.21	3,097.08	3,006.24	2,896.86	109.39	27.482		
15,500.00	7,730.00	5,050.00	5,050.00	115.82	87.22	27.87	-4,237.21	3,097.08	3,012.30	2,901.98	110.32	27.304		
15,600.00	7,730.00	5,050.00	5,050.00	116.99	87.22	27.87	-4,237.21	3,097.08	3,021.66	2,910.22	111.44	27.115		
15,700.00	7,730.00	5,050.00	5,050.00	118.19	87.22	27.87	-4,237.21	3,097.08	3,034.29	2,921.56	112.72	26.918		
15,800.00	7,730.00	5,050.00	5,050.00	119.41	87.22	27.87	-4,237.21	3,097.08	3,050.14	2,935.99	114.15	26.720		
15,900.00	7,730.00	5,050.00	5,050.00	120.65	87.22	27.87	-4,237.21	3,097.08	3,069.18	2,953.46	115.71	26.524		
16,000.00	7,730.00	5,050.00	5,050.00	121.91	87.22	27.87	-4,237.21	3,097.08	3,091.33	2,973.95	117.38	26.336		
16,100.00	7,730.00	5,050.00	5,050.00	123.20	87.22	27.87	-4,237.21	3,097.08	3,116.53	2,997.40	119.13	26.160		
16,200.00	7,730.00	5,050.00	5,050.00	124.50	87.22	27.87	-4,237.21	3,097.08	3,144.72	3,023.76	120.95	26.000		
16,300.00	7,730.00	5,050.00	5,050.00	125.82	87.22	27.87	-4,237.21	3,097.08	3,175.80	3,052.98	122.82	25.857		
16,400.00	7,730.00	5,050.00	5,050.00	127.16	87.22	27.87	-4,237.21	3,097.08	3,209.70	3,084.98	124.72	25.736		
16,500.00	7,730.00	5,050.00	5,050.00	128.52	87.22	27.87	-4,237.21	3,097.08	3,246.33	3,119.70	126.63	25.637		
16,600.00	7,730.00	5,050.00	5,050.00	129.89	87.22	27.87	-4,237.21	3,097.08	3,285.59	3,157.05	128.54	25.561		
16,700.00	7,730.00	5,050.00	5,050.00	131.27	87.22	27.87	-4,237.21	3,097.08	3,327.40	3,196.96	130.43	25.510		
16,800.00	7,730.00	5,050.00	5,050.00	132.67	87.22	27.87	-4,237.21	3,097.08	3,371.65	3,239.34	132.31	25.483		
16,900.00	7,730.00	5,050.00	5,050.00	134.09	87.22	27.87	-4,237.21	3,097.08	3,418.26	3,284.11	134.15	25.481 SF		
17,000.00	7,730.00	5,050.00	5,050.00	135.51	87.22	27.87	-4,237.21	3,097.08	3,467.13	3,331.18	135.95	25.503		
17,100.00	7,730.00	5,050.00	5,050.00	136.95	87.22	27.87	-4,237.21	3,097.08	3,518.16	3,380.45	137.70	25.549		
17,200.00	7,730.00	5,050.00	5,050.00	138.40	87.22	27.87	-4,237.21	3,097.08	3,571.26	3,431.85	139.41	25.618		
17,300.00	7,730.00	5,050.00	5,050.00	139.85	87.22	27.87	-4,237.21	3,097.08	3,626.34	3,485.29	141.06	25.709		
17,400.00	7,730.00	5,050.00	5,050.00	141.32	87.22	27.87	-4,237.21	3,097.08	3,683.32	3,540.67	142.65	25.821		
17,500.00	7,730.00	5,050.00	5,050.00	142.80	87.22	27.87	-4,237.21	3,097.08	3,742.10	3,597.91	144.18	25.954		
17,600.00	7,730.00	5,050.00	5,050.00	144.28	87.22	27.87	-4,237.21	3,097.08	3,802.60	3,656.94	145.66	26.106		
17,700.00	7,730.00	5,050.00	5,050.00	145.78	87.22	27.87	-4,237.21	3,097.08	3,864.74	3,717.67	147.08	26.277		
17,800.00	7,730.00	5,050.00	5,050.00	147.28	87.22	27.87	-4,237.21	3,097.08	3,928.45	3,780.01	148.43	26.466		
17,900.00	7,730.00	5,050.00	5,050.00	148.79	87.22	27.87	-4,237.21	3,097.08	3,993.64	3,843.90	149.74	26.671		
18,000.00	7,730.00	5,050.00	5,050.00	150.31	87.22	27.87	-4,237.21	3,097.08	4,060.25	3,909.27	150.98	26.893		
18,100.00	7,730.00	5,050.00	5,050.00	151.83	87.22	27.87	-4,237.21	3,097.08	4,128.21	3,976.04	152.17	27.129		
18,200.00	7,730.00	5,050.00	5,050.00	153.37	87.22	27.87	-4,237.21	3,097.08	4,197.45	4,044.14	153.30	27.380		
18,300.00	7,730.00	5,050.00	5,050.00	154.90	87.22	27.87	-4,237.21	3,097.08	4,267.91	4,113.52	154.39	27.644		
18,400.00	7,730.00	5,050.00	5,050.00	156.45	87.22	27.87	-4,237.21	3,097.08	4,339.53	4,184.10	155.42	27.921		
18,500.00	7,730.00	5,050.00	5,050.00	158.00	87.22	27.87	-4,237.21	3,097.08	4,412.25	4,255.84	156.41	28.210		
18,600.00	7,730.00	5,050.00	5,050.00	159.55	87.22	27.87	-4,237.21	3,097.08	4,486.02	4,328.68	157.35	28.510		
18,700.00	7,730.00	5,050.00	5,050.00	161.11	87.22	27.87	-4,237.21	3,097.08	4,560.80	4,402.56	158.24	28.822		
18,800.00	7,730.00	5,050.00	5,050.00	162.68	87.22	27.87	-4,237.21	3,097.08	4,636.52	4,477.43	159.10	29.143		
18,900.00	7,730.00	5,050.00	5,050.00	164.25	87.22	27.87	-4,237.21	3,097.08	4,713.15	4,553.24	159.91	29.474		
19,000.00	7,730.00	5,050.00	5,050.00	165.83	87.22	27.87	-4,237.21	3,097.08	4,790.65	4,629.96	160.69	29.814		
19,100.00	7,730.00	5,050.00	5,050.00	167.41	87.22	27.87	-4,237.21	3,097.08	4,868.96	4,707.53	161.42	30.162		
19,200.00	7,730.00	5,050.00	5,050.00	168.99	87.22	27.87	-4,237.21	3,097.08	4,948.05	4,785.92	162.13	30.519		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,050.00	5,050.00	170.58	87.22	27.87	-4,237.21	3,097.08	5,027.89	4,865.09	162.80	30.884	
19,400.00	7,730.00	5,050.00	5,050.00	172.17	87.22	27.87	-4,237.21	3,097.08	5,108.44	4,945.00	163.44	31.255	
19,430.54	7,730.00	5,050.00	5,050.00	172.66	87.22	27.87	-4,237.21	3,097.08	5,133.17	4,969.54	163.63	31.370	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	157.24	-4,237.34	1,778.04	4,595.32					
100.00	100.00	77.00	77.00	0.13	0.63	157.24	-4,237.34	1,778.04	4,595.27	4,594.50	0.77	5,998.553		
200.00	200.00	177.00	177.00	0.49	2.16	157.24	-4,237.34	1,778.04	4,595.27	4,592.61	2.66	1,729.424		
300.00	300.00	277.00	277.00	0.85	3.91	157.24	-4,237.34	1,778.04	4,595.27	4,590.50	4.76	965.208		
400.00	400.00	377.00	377.00	1.21	5.65	157.24	-4,237.34	1,778.04	4,595.27	4,588.40	6.86	669.404		
500.00	500.00	477.00	477.00	1.57	7.40	157.24	-4,237.34	1,778.04	4,595.27	4,586.30	8.97	512.378		
600.00	599.98	576.98	576.98	1.92	9.15	91.91	-4,237.34	1,778.04	4,595.32	4,584.26	11.07	415.207		
700.00	699.84	676.84	676.84	2.28	10.89	91.97	-4,237.34	1,778.04	4,595.50	4,582.34	13.16	349.082		
800.00	799.45	776.45	776.45	2.64	12.63	92.07	-4,237.34	1,778.04	4,595.81	4,580.54	15.27	301.044		
900.00	898.70	875.70	875.70	3.02	14.36	92.21	-4,237.34	1,778.04	4,596.27	4,578.89	17.38	264.526		
1,000.00	997.47	974.47	974.47	3.41	16.08	92.39	-4,237.34	1,778.04	4,596.90	4,577.41	19.50	235.788		
1,100.00	1,095.62	1,072.62	1,072.62	3.84	17.80	92.61	-4,237.34	1,778.04	4,597.75	4,576.12	21.63	212.549		
1,200.00	1,193.06	1,170.06	1,170.06	4.29	19.50	92.86	-4,237.34	1,778.04	4,598.85	4,575.07	23.79	193.342		
1,300.00	1,289.64	1,266.64	1,266.64	4.78	21.18	93.14	-4,237.34	1,778.04	4,600.25	4,574.29	25.96	177.182		
1,400.00	1,385.27	1,362.27	1,362.27	5.32	22.85	93.45	-4,237.34	1,778.04	4,602.01	4,573.85	28.17	163.383		
1,500.00	1,479.82	1,456.82	1,456.82	5.90	24.50	93.79	-4,237.34	1,778.04	4,604.19	4,573.79	30.40	151.456		
1,600.00	1,573.17	1,550.17	1,550.17	6.53	26.13	94.15	-4,237.34	1,778.04	4,606.85	4,574.19	32.66	141.040		
1,700.00	1,665.21	1,642.21	1,642.21	7.23	27.74	94.54	-4,237.34	1,778.04	4,610.06	4,575.10	34.96	131.866		
1,800.00	1,755.84	1,732.84	1,732.84	7.98	29.32	94.93	-4,237.34	1,778.04	4,613.91	4,576.62	37.29	123.725		
1,900.00	1,844.94	1,821.94	1,821.94	8.80	30.87	95.34	-4,237.34	1,778.04	4,618.47	4,578.82	39.66	116.458		
2,000.00	1,932.39	1,909.39	1,909.39	9.68	32.40	95.76	-4,237.34	1,778.04	4,623.83	4,581.77	42.06	109.936		
2,100.00	2,018.11	2,004.89	1,995.11	10.63	34.07	96.18	-4,237.34	1,778.04	4,630.07	4,585.41	44.67	103.660		
2,200.00	2,101.97	2,078.97	2,078.97	11.65	35.36	96.60	-4,237.34	1,778.04	4,637.29	4,590.32	46.96	98.740		
2,300.00	2,183.88	2,160.88	2,160.88	12.74	36.79	97.01	-4,237.34	1,778.04	4,645.56	4,596.10	49.47	93.914		
2,400.00	2,263.74	2,240.74	2,240.74	13.90	38.18	97.41	-4,237.34	1,778.04	4,654.99	4,602.99	52.00	89.524		
2,431.61	2,288.54	2,265.54	2,265.54	14.29	38.62	97.54	-4,237.34	1,778.04	4,658.22	4,605.42	52.80	88.221		
2,500.00	2,341.97	2,318.97	2,318.97	15.13	39.55	97.95	-4,237.34	1,778.04	4,665.54	4,610.99	54.55	85.527		
2,600.00	2,420.08	2,402.92	2,397.08	16.37	41.01	98.54	-4,237.34	1,778.04	4,676.93	4,619.71	57.22	81.739		
2,700.00	2,498.20	2,475.20	2,475.20	17.63	42.28	99.14	-4,237.34	1,778.04	4,689.12	4,629.43	59.69	78.561		
2,800.00	2,576.32	2,553.32	2,553.32	18.89	43.64	99.73	-4,237.34	1,778.04	4,702.11	4,639.85	62.26	75.522		
2,900.00	2,654.43	2,631.43	2,631.43	20.17	45.00	100.32	-4,237.34	1,778.04	4,715.89	4,651.05	64.84	72.736		
3,000.00	2,732.55	2,709.55	2,709.55	21.45	46.37	100.91	-4,237.34	1,778.04	4,730.45	4,663.04	67.41	70.177		
3,100.00	2,810.67	2,787.67	2,787.67	22.74	47.73	101.49	-4,237.34	1,778.04	4,745.79	4,675.82	69.98	67.820		
3,200.00	2,888.78	2,865.78	2,865.78	24.03	49.09	102.08	-4,237.34	1,778.04	4,761.90	4,689.36	72.54	65.645		
3,300.00	2,966.90	2,943.90	2,943.90	25.33	50.46	102.66	-4,237.34	1,778.04	4,778.77	4,703.67	75.10	63.634		
3,400.00	3,045.02	3,022.02	3,022.02	26.63	51.82	103.23	-4,237.34	1,778.04	4,796.39	4,718.75	77.65	61.770		
3,500.00	3,123.13	3,100.13	3,100.13	27.94	53.18	103.81	-4,237.34	1,778.04	4,814.76	4,734.57	80.19	60.041		
3,600.00	3,201.25	3,178.25	3,178.25	29.24	54.55	104.38	-4,237.34	1,778.04	4,833.87	4,751.14	82.73	58.432		
3,700.00	3,279.37	3,256.37	3,256.37	30.55	55.91	104.95	-4,237.34	1,778.04	4,853.70	4,768.45	85.25	56.933		
3,800.00	3,357.49	3,334.49	3,334.49	31.86	57.27	105.52	-4,237.34	1,778.04	4,874.25	4,786.48	87.77	55.535		
3,900.00	3,435.60	3,412.60	3,412.60	33.18	58.64	106.08	-4,237.34	1,778.04	4,895.52	4,805.24	90.27	54.229		
4,000.00	3,513.72	3,509.28	3,490.72	34.49	60.32	106.64	-4,237.34	1,778.04	4,917.48	4,824.38	93.09	52.823		
4,100.00	3,591.84	3,568.84	3,568.84	35.81	61.36	107.20	-4,237.34	1,778.04	4,940.13	4,844.88	95.25	51.862		
4,200.00	3,669.95	3,646.95	3,646.95	37.12	62.73	107.75	-4,237.34	1,778.04	4,963.47	4,865.74	97.73	50.789		
4,300.00	3,748.07	3,725.07	3,725.07	38.44	64.09	108.30	-4,237.34	1,778.04	4,987.48	4,887.29	100.19	49.780		
4,400.00	3,826.19	3,803.19	3,803.19	39.76	65.45	108.85	-4,237.34	1,778.04	5,012.15	4,909.51	102.64	48.832		
4,500.00	3,904.30	3,881.30	3,881.30	41.08	66.82	109.39	-4,237.34	1,778.04	5,037.47	4,932.39	105.08	47.940		
4,600.00	3,982.42	3,959.42	3,959.42	42.40	68.18	109.93	-4,237.34	1,778.04	5,063.44	4,955.93	107.51	47.099		
4,700.00	4,060.54	4,037.54	4,037.54	43.72	69.54	110.47	-4,237.34	1,778.04	5,090.04	4,980.12	109.92	46.307		
4,800.00	4,138.66	4,115.66	4,115.66	45.05	70.91	111.00	-4,237.34	1,778.04	5,117.26	5,004.94	112.32	45.559		
4,900.00	4,216.77	4,206.23	4,193.77	46.37	72.49	111.53	-4,237.34	1,778.04	5,145.10	5,030.17	114.93	44.768		
5,000.00	4,294.89	4,271.89	4,271.89	47.69	73.63	112.05	-4,237.34	1,778.04	5,173.54	5,056.45	117.09	44.185		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,350.01	4,350.01	49.02	75.00	112.57	-4,237.34	1,778.04	5,202.58	5,083.13	119.45	43.553		
5,200.00	4,451.12	4,428.12	4,428.12	50.34	76.36	113.09	-4,237.34	1,778.04	5,232.20	5,110.39	121.81	42.955		
5,300.00	4,529.24	4,506.24	4,506.24	51.67	77.72	113.60	-4,237.34	1,778.04	5,262.39	5,138.25	124.15	42.389		
5,400.00	4,607.36	4,584.36	4,584.36	52.99	79.09	114.11	-4,237.34	1,778.04	5,293.15	5,166.67	126.47	41.852		
5,500.00	4,685.47	4,662.47	4,662.47	54.32	80.45	114.62	-4,237.34	1,778.04	5,324.46	5,195.67	128.79	41.343		
5,600.00	4,763.59	4,740.59	4,740.59	55.64	81.81	115.12	-4,237.34	1,778.04	5,356.32	5,225.22	131.09	40.860		
5,700.00	4,841.71	4,818.71	4,818.71	56.97	83.18	115.61	-4,237.34	1,778.04	5,388.71	5,255.33	133.38	40.401		
5,800.00	4,919.83	4,903.17	4,896.83	58.30	84.65	116.11	-4,237.34	1,778.04	5,421.62	5,285.85	135.77	39.933		
5,900.00	4,997.94	4,974.94	4,974.94	59.62	85.90	116.59	-4,237.34	1,778.04	5,455.06	5,317.13	137.92	39.551		
6,000.00	5,076.06	5,053.06	5,053.06	60.95	87.27	117.08	-4,237.34	1,778.04	5,488.99	5,348.82	140.18	39.157		
6,100.00	5,154.18	5,131.18	5,131.18	62.28	88.63	117.56	-4,237.34	1,778.04	5,523.43	5,381.01	142.42	38.782		
6,200.00	5,232.29	5,209.29	5,209.29	63.61	89.99	118.04	-4,237.34	1,778.04	5,558.35	5,413.70	144.65	38.426		
6,300.00	5,310.41	5,287.41	5,287.41	64.93	91.36	118.51	-4,237.34	1,778.04	5,593.76	5,446.89	146.87	38.086		
6,400.00	5,388.53	5,365.53	5,365.53	66.26	92.72	118.98	-4,237.34	1,778.04	5,629.63	5,480.55	149.08	37.763		
6,500.00	5,466.64	5,443.64	5,443.64	67.59	94.08	119.44	-4,237.34	1,778.04	5,665.96	5,514.69	151.27	37.455		
6,600.00	5,544.76	5,521.76	5,521.76	68.92	95.44	119.91	-4,237.34	1,778.04	5,703.20	5,551.06	153.49	37.147		
6,700.00	5,622.88	5,600.00	5,600.00	70.25	96.80	120.38	-4,237.34	1,778.04	5,741.93	5,589.09	155.71	36.840		
6,800.00	5,701.00	5,678.00	5,678.00	71.58	98.16	120.85	-4,237.34	1,778.04	5,782.14	5,628.63	157.93	36.533		
6,900.00	5,779.11	5,756.00	5,756.00	72.91	99.52	121.32	-4,237.34	1,778.04	5,823.78	5,669.64	160.15	36.226		
7,000.00	5,857.23	5,834.00	5,834.00	74.23	100.88	121.79	-4,237.34	1,778.04	5,866.83	5,712.11	162.37	35.919		
7,100.00	5,935.35	5,912.00	5,912.00	75.56	102.24	122.26	-4,237.34	1,778.04	5,911.27	5,755.98	164.59	35.612		
7,200.00	6,013.46	5,990.00	5,990.00	76.89	103.60	122.73	-4,237.34	1,778.04	5,957.04	5,801.24	166.81	35.305		
7,300.00	6,091.58	6,068.00	6,068.00	78.22	104.96	123.20	-4,237.34	1,778.04	6,004.14	5,847.86	169.03	35.000		
7,400.00	6,169.70	6,146.00	6,146.00	79.55	106.32	123.67	-4,237.34	1,778.04	6,052.52	5,895.79	171.25	34.695		
7,500.00	6,247.81	6,224.00	6,224.00	80.88	107.68	124.14	-4,237.34	1,778.04	6,102.16	5,945.00	173.47	34.390		
7,600.00	6,325.93	6,302.00	6,302.00	82.21	109.04	124.61	-4,237.34	1,778.04	6,153.02	5,995.48	175.69	34.085		
7,700.00	6,404.05	6,380.00	6,380.00	83.54	110.40	125.08	-4,237.34	1,778.04	6,205.07	6,047.17	177.91	33.780		
7,800.00	6,482.17	6,458.00	6,458.00	84.87	111.76	125.55	-4,237.34	1,778.04	6,258.29	6,100.06	180.13	33.475		
7,900.00	6,560.28	6,536.00	6,536.00	86.20	113.12	126.02	-4,237.34	1,778.04	6,312.65	6,154.12	182.35	33.170		
8,000.00	6,638.40	6,614.00	6,614.00	87.53	114.48	126.49	-4,237.34	1,778.04	6,368.11	6,209.30	184.57	32.865		
8,100.00	6,716.52	6,692.00	6,692.00	88.86	115.84	126.96	-4,237.34	1,778.04	6,424.65	6,265.59	186.79	32.560		
8,200.00	6,794.63	6,770.00	6,770.00	90.20	117.20	127.43	-4,237.34	1,778.04	6,482.24	6,322.95	189.01	32.255		
8,300.00	6,872.75	6,848.00	6,848.00	91.53	118.56	127.90	-4,237.34	1,778.04	6,540.86	6,381.36	191.23	31.950		
8,400.00	6,950.87	6,926.00	6,926.00	92.86	119.92	128.37	-4,237.34	1,778.04	6,600.46	6,440.78	193.45	31.645		
8,500.00	7,028.98	7,004.00	7,004.00	94.19	121.28	128.84	-4,237.34	1,778.04	6,661.04	6,501.19	195.67	31.340		
8,600.00	7,107.10	7,082.00	7,082.00	95.52	122.64	129.31	-4,237.34	1,778.04	6,722.56	6,562.56	197.89	31.035		
8,647.91	7,144.53	7,120.00	7,120.00	96.16	123.20	129.56	-4,237.34	1,778.04	6,752.35	6,592.30	199.00	30.820		
8,650.00	7,146.16	7,122.00	7,122.00	96.18	123.20	129.56	-4,237.34	1,778.04	6,753.66	6,593.59	199.06	30.814		
8,700.00	7,185.66	7,161.00	7,161.00	96.84	124.48	130.03	-4,237.34	1,778.04	6,783.13	6,623.00	199.00	30.780		
8,750.00	7,225.78	7,201.00	7,201.00	97.47	125.76	130.50	-4,237.34	1,778.04	6,809.28	6,649.08	199.00	30.746		
8,800.00	7,266.21	7,241.00	7,241.00	98.08	127.04	130.97	-4,237.34	1,778.04	6,831.94	6,671.67	199.00	30.712		
8,850.00	7,306.63	7,282.00	7,282.00	98.64	128.32	131.44	-4,237.34	1,778.04	6,850.99	6,690.65	199.00	30.678		
8,900.00	7,346.75	7,322.00	7,322.00	99.17	129.60	131.91	-4,237.34	1,778.04	6,866.30	6,705.89	199.00	30.644		
8,950.00	7,386.25	7,362.00	7,362.00	99.64	130.88	132.38	-4,237.34	1,778.04	6,877.78	6,717.33	199.00	30.610		
9,000.00	7,424.84	7,400.00	7,400.00	100.06	132.16	132.85	-4,237.34	1,778.04	6,885.37	6,724.88	199.00	30.576		
9,050.00	7,462.22	7,438.00	7,438.00	100.42	133.44	133.32	-4,237.34	1,778.04	6,889.02	6,728.51	199.00	30.542		
9,100.00	7,498.11	7,474.00	7,474.00	100.74	134.72	133.79	-4,237.34	1,778.04	6,888.71	6,728.20	199.00	30.508		
9,150.00	7,532.24	7,508.00	7,508.00	100.99	136.00	134.26	-4,237.34	1,778.04	6,884.44	6,723.95	199.00	30.474		
9,200.00	7,564.34	7,540.00	7,540.00	101.19	137.28	134.73	-4,237.34	1,778.04	6,876.24	6,715.78	199.00	30.440		
9,250.00	7,594.17	7,570.00	7,570.00	101.34	138.56	135.20	-4,237.34	1,778.04	6,864.15	6,703.75	199.00	30.406		
9,300.00	7,621.50	7,597.00	7,597.00	101.45	139.84	135.67	-4,237.34	1,778.04	6,848.24	6,687.93	199.00	30.372		
9,350.00	7,646.13	7,622.00	7,622.00	101.50	141.12	136.14	-4,237.34	1,778.04	6,828.62	6,668.41	199.00	30.338		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	5,450.00	5,450.00	101.51	94.20	48.52	-4,237.34	1,778.04	6,805.40	6,645.31	160.09	42.509		
9,450.00	7,686.55	5,450.00	5,450.00	101.48	94.20	47.73	-4,237.34	1,778.04	6,778.72	6,618.75	159.97	42.376		
9,500.00	7,702.04	5,450.00	5,450.00	101.42	94.20	47.33	-4,237.34	1,778.04	6,748.74	6,588.91	159.83	42.225		
9,550.00	7,714.20	5,450.00	5,450.00	101.33	94.20	47.34	-4,237.34	1,778.04	6,715.65	6,555.97	159.68	42.057		
9,600.00	7,722.96	5,450.00	5,450.00	101.20	94.20	47.80	-4,237.34	1,778.04	6,679.66	6,520.12	159.53	41.870		
9,650.00	7,728.24	5,450.00	5,450.00	101.06	94.20	48.76	-4,237.34	1,778.04	6,640.99	6,481.60	159.39	41.665		
9,699.97	7,730.00	5,450.00	5,450.00	100.90	94.20	50.35	-4,237.34	1,778.04	6,599.92	6,440.67	159.25	41.443		
9,800.00	7,730.00	5,450.00	5,450.00	100.56	94.20	50.35	-4,237.34	1,778.04	6,515.69	6,356.71	158.98	40.985		
9,900.00	7,730.00	5,450.00	5,450.00	100.24	94.20	50.35	-4,237.34	1,778.04	6,431.93	6,273.23	158.70	40.530		
10,000.00	7,730.00	5,450.00	5,450.00	99.93	94.20	50.35	-4,237.34	1,778.04	6,348.64	6,190.23	158.41	40.077		
10,100.00	7,730.00	5,450.00	5,450.00	99.64	94.20	50.35	-4,237.34	1,778.04	6,265.84	6,107.73	158.12	39.628		
10,200.00	7,730.00	5,450.00	5,450.00	99.36	94.20	50.35	-4,237.34	1,778.04	6,183.56	6,025.74	157.81	39.182		
10,300.00	7,730.00	5,450.00	5,450.00	99.09	94.20	50.35	-4,237.34	1,778.04	6,101.80	5,944.29	157.51	38.740		
10,400.00	7,730.00	5,450.00	5,450.00	98.84	94.20	50.35	-4,237.34	1,778.04	6,020.59	5,863.39	157.19	38.301		
10,500.00	7,730.00	5,450.00	5,450.00	98.61	94.20	50.35	-4,237.34	1,778.04	5,939.95	5,783.08	156.87	37.866		
10,600.00	7,730.00	5,450.00	5,450.00	98.39	94.20	50.35	-4,237.34	1,778.04	5,859.91	5,703.37	156.54	37.434		
10,700.00	7,730.00	5,450.00	5,450.00	98.18	94.20	50.35	-4,237.34	1,778.04	5,780.49	5,624.29	156.20	37.007		
10,800.00	7,730.00	5,450.00	5,450.00	97.99	94.20	50.35	-4,237.34	1,778.04	5,701.72	5,545.87	155.86	36.583		
10,900.00	7,730.00	5,450.00	5,450.00	97.81	94.20	50.35	-4,237.34	1,778.04	5,623.63	5,468.12	155.50	36.164		
11,000.00	7,730.00	5,450.00	5,450.00	97.64	94.20	50.35	-4,237.34	1,778.04	5,546.24	5,391.09	155.14	35.749		
11,100.00	7,730.00	5,450.00	5,450.00	97.50	94.20	50.35	-4,237.34	1,778.04	5,469.58	5,314.80	154.78	35.338		
11,200.00	7,730.00	5,450.00	5,450.00	97.36	94.20	50.35	-4,237.34	1,778.04	5,393.68	5,239.28	154.40	34.932		
11,300.00	7,730.00	5,450.00	5,450.00	97.24	94.20	50.35	-4,237.34	1,778.04	5,318.59	5,164.56	154.02	34.531		
11,400.00	7,730.00	5,450.00	5,450.00	97.14	94.20	50.35	-4,237.34	1,778.04	5,244.32	5,090.69	153.63	34.135		
11,500.00	7,730.00	5,450.00	5,450.00	97.06	94.20	50.35	-4,237.34	1,778.04	5,170.92	5,017.68	153.24	33.744		
11,600.00	7,730.00	5,450.00	5,450.00	96.98	94.20	50.35	-4,237.34	1,778.04	5,098.43	4,945.59	152.84	33.358		
11,700.00	7,730.00	5,450.00	5,450.00	96.93	94.20	50.35	-4,237.34	1,778.04	5,026.88	4,874.45	152.43	32.978		
11,800.00	7,730.00	5,450.00	5,450.00	96.90	94.20	50.35	-4,237.34	1,778.04	4,956.32	4,804.30	152.02	32.603		
11,900.00	7,730.00	5,450.00	5,450.00	96.88	94.20	50.35	-4,237.34	1,778.04	4,886.78	4,735.18	151.60	32.234		
12,000.00	7,730.00	5,450.00	5,450.00	96.88	94.20	50.35	-4,237.34	1,778.04	4,818.32	4,667.14	151.18	31.871		
12,100.00	7,730.00	5,450.00	5,450.00	96.90	94.20	50.35	-4,237.34	1,778.04	4,750.97	4,600.21	150.76	31.514		
12,200.00	7,730.00	5,450.00	5,450.00	96.94	94.20	50.35	-4,237.34	1,778.04	4,684.79	4,534.46	150.33	31.163		
12,300.00	7,730.00	5,450.00	5,450.00	97.00	94.20	50.35	-4,237.34	1,778.04	4,619.83	4,469.93	149.90	30.819		
12,400.00	7,730.00	5,450.00	5,450.00	97.08	94.20	50.35	-4,237.34	1,778.04	4,556.14	4,406.66	149.47	30.481		
12,500.00	7,730.00	5,450.00	5,450.00	97.18	94.20	50.35	-4,237.34	1,778.04	4,493.77	4,344.72	149.04	30.151		
12,600.00	7,730.00	5,450.00	5,450.00	97.31	94.20	50.35	-4,237.34	1,778.04	4,432.77	4,284.15	148.62	29.827		
12,700.00	7,730.00	5,450.00	5,450.00	97.46	94.20	50.35	-4,237.34	1,778.04	4,373.22	4,225.02	148.20	29.510		
12,800.00	7,730.00	5,450.00	5,450.00	97.64	94.20	50.35	-4,237.34	1,778.04	4,315.16	4,167.38	147.78	29.200		
12,900.00	7,730.00	5,450.00	5,450.00	97.85	94.20	50.35	-4,237.34	1,778.04	4,258.65	4,111.28	147.37	28.898		
13,000.00	7,730.00	5,450.00	5,450.00	98.09	94.20	50.35	-4,237.34	1,778.04	4,203.77	4,056.80	146.97	28.603		
13,100.00	7,730.00	5,450.00	5,450.00	98.35	94.20	50.35	-4,237.34	1,778.04	4,150.57	4,003.98	146.58	28.316		
13,200.00	7,730.00	5,450.00	5,450.00	98.65	94.20	50.35	-4,237.34	1,778.04	4,099.12	3,952.91	146.21	28.036		
13,300.00	7,730.00	5,450.00	5,450.00	98.98	94.20	50.35	-4,237.34	1,778.04	4,049.48	3,903.63	145.85	27.764		
13,400.00	7,730.00	5,450.00	5,450.00	99.34	94.20	50.35	-4,237.34	1,778.04	4,001.73	3,856.22	145.51	27.501		
13,500.00	7,730.00	5,450.00	5,450.00	99.74	94.20	50.35	-4,237.34	1,778.04	3,955.93	3,810.73	145.20	27.245		
13,600.00	7,730.00	5,450.00	5,450.00	100.17	94.20	50.35	-4,237.34	1,778.04	3,912.15	3,767.24	144.91	26.997		
13,700.00	7,730.00	5,450.00	5,450.00	100.65	94.20	50.35	-4,237.34	1,778.04	3,870.46	3,725.82	144.65	26.758		
13,800.00	7,730.00	5,450.00	5,450.00	101.16	94.20	50.35	-4,237.34	1,778.04	3,830.93	3,686.52	144.42	26.527		
13,900.00	7,730.00	5,450.00	5,450.00	101.71	94.20	50.35	-4,237.34	1,778.04	3,793.62	3,649.40	144.22	26.305		
14,000.00	7,730.00	5,450.00	5,450.00	102.30	94.20	50.35	-4,237.34	1,778.04	3,758.61	3,614.55	144.06	26.091		
14,100.00	7,730.00	5,450.00	5,450.00	102.93	94.20	50.35	-4,237.34	1,778.04	3,725.95	3,582.01	143.94	25.885		
14,200.00	7,730.00	5,450.00	5,450.00	103.60	94.20	50.35	-4,237.34	1,778.04	3,695.70	3,551.84	143.86	25.689		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	5,450.00	5,450.00	104.32	94.20	50.35	-4,237.34	1,778.04	3,667.94	3,524.10	143.83	25.501		
14,400.00	7,730.00	5,450.00	5,450.00	105.07	94.20	50.35	-4,237.34	1,778.04	3,642.71	3,498.86	143.85	25.323		
14,500.00	7,730.00	5,450.00	5,450.00	105.86	94.20	50.35	-4,237.34	1,778.04	3,620.06	3,476.15	143.92	25.154		
14,600.00	7,730.00	5,450.00	5,450.00	106.70	94.20	50.35	-4,237.34	1,778.04	3,600.06	3,456.02	144.04	24.994		
14,700.00	7,730.00	5,450.00	5,450.00	107.57	94.20	50.35	-4,237.34	1,778.04	3,582.73	3,438.52	144.21	24.844		
14,800.00	7,730.00	5,450.00	5,450.00	108.48	94.20	50.35	-4,237.34	1,778.04	3,568.12	3,423.69	144.43	24.704		
14,900.00	7,730.00	5,450.00	5,450.00	109.43	94.20	50.35	-4,237.34	1,778.04	3,556.27	3,411.56	144.71	24.575		
15,000.00	7,730.00	5,450.00	5,450.00	110.42	94.20	50.35	-4,237.34	1,778.04	3,547.19	3,402.15	145.05	24.456		
15,100.00	7,730.00	5,450.00	5,450.00	111.43	94.20	50.35	-4,237.34	1,778.04	3,540.92	3,395.49	145.43	24.348		
15,200.00	7,730.00	5,450.00	5,450.00	112.49	94.20	50.35	-4,237.34	1,778.04	3,537.47	3,391.60	145.87	24.251		
15,272.27	7,730.00	5,450.00	5,450.00	113.27	94.20	50.35	-4,237.34	1,778.04	3,536.73	3,390.52	146.21	24.189 CC		
15,300.00	7,730.00	5,450.00	5,450.00	113.57	94.20	50.35	-4,237.34	1,778.04	3,536.84	3,390.49	146.35	24.166 ES		
15,400.00	7,730.00	5,450.00	5,450.00	114.68	94.20	50.35	-4,237.34	1,778.04	3,539.04	3,392.15	146.89	24.094		
15,500.00	7,730.00	5,450.00	5,450.00	115.82	94.20	50.35	-4,237.34	1,778.04	3,544.05	3,396.59	147.46	24.033		
15,600.00	7,730.00	5,450.00	5,450.00	116.99	94.20	50.35	-4,237.34	1,778.04	3,551.88	3,403.80	148.08	23.986		
15,700.00	7,730.00	5,450.00	5,450.00	118.19	94.20	50.35	-4,237.34	1,778.04	3,562.50	3,413.76	148.74	23.951		
15,800.00	7,730.00	5,450.00	5,450.00	119.41	94.20	50.35	-4,237.34	1,778.04	3,575.89	3,426.46	149.43	23.930		
15,900.00	7,730.00	5,450.00	5,450.00	120.65	94.20	50.35	-4,237.34	1,778.04	3,592.01	3,441.86	150.15	23.923 SF		
16,000.00	7,730.00	5,450.00	5,450.00	121.91	94.20	50.35	-4,237.34	1,778.04	3,610.82	3,459.93	150.89	23.930		
16,100.00	7,730.00	5,450.00	5,450.00	123.20	94.20	50.35	-4,237.34	1,778.04	3,632.30	3,480.64	151.66	23.951		
16,200.00	7,730.00	5,450.00	5,450.00	124.50	94.20	50.35	-4,237.34	1,778.04	3,656.38	3,503.95	152.44	23.986		
16,300.00	7,730.00	5,450.00	5,450.00	125.82	94.20	50.35	-4,237.34	1,778.04	3,683.03	3,529.80	153.23	24.036		
16,400.00	7,730.00	5,450.00	5,450.00	127.16	94.20	50.35	-4,237.34	1,778.04	3,712.17	3,558.14	154.03	24.100		
16,500.00	7,730.00	5,450.00	5,450.00	128.52	94.20	50.35	-4,237.34	1,778.04	3,743.77	3,588.93	154.83	24.179		
16,600.00	7,730.00	5,450.00	5,450.00	129.89	94.20	50.35	-4,237.34	1,778.04	3,777.74	3,622.10	155.64	24.272		
16,700.00	7,730.00	5,450.00	5,450.00	131.27	94.20	50.35	-4,237.34	1,778.04	3,814.04	3,657.60	156.44	24.380		
16,800.00	7,730.00	5,450.00	5,450.00	132.67	94.20	50.35	-4,237.34	1,778.04	3,852.59	3,695.35	157.24	24.502		
16,900.00	7,730.00	5,450.00	5,450.00	134.09	94.20	50.35	-4,237.34	1,778.04	3,893.32	3,735.30	158.02	24.637		
17,000.00	7,730.00	5,450.00	5,450.00	135.51	94.20	50.35	-4,237.34	1,778.04	3,936.18	3,777.38	158.80	24.787		
17,100.00	7,730.00	5,450.00	5,450.00	136.95	94.20	50.35	-4,237.34	1,778.04	3,981.09	3,821.53	159.56	24.950		
17,200.00	7,730.00	5,450.00	5,450.00	138.40	94.20	50.35	-4,237.34	1,778.04	4,027.98	3,867.67	160.31	25.127		
17,300.00	7,730.00	5,450.00	5,450.00	139.85	94.20	50.35	-4,237.34	1,778.04	4,076.78	3,915.75	161.04	25.316		
17,400.00	7,730.00	5,450.00	5,450.00	141.32	94.20	50.35	-4,237.34	1,778.04	4,127.43	3,965.69	161.75	25.518		
17,500.00	7,730.00	5,450.00	5,450.00	142.80	94.20	50.35	-4,237.34	1,778.04	4,179.86	4,017.42	162.44	25.732		
17,600.00	7,730.00	5,450.00	5,450.00	144.28	94.20	50.35	-4,237.34	1,778.04	4,234.01	4,070.90	163.11	25.958		
17,700.00	7,730.00	5,450.00	5,450.00	145.78	94.20	50.35	-4,237.34	1,778.04	4,289.80	4,126.04	163.76	26.196		
17,800.00	7,730.00	5,450.00	5,450.00	147.28	94.20	50.35	-4,237.34	1,778.04	4,347.17	4,182.78	164.39	26.445		
17,900.00	7,730.00	5,450.00	5,450.00	148.79	94.20	50.35	-4,237.34	1,778.04	4,406.07	4,241.07	164.99	26.704		
18,000.00	7,730.00	5,450.00	5,450.00	150.31	94.20	50.35	-4,237.34	1,778.04	4,466.43	4,300.85	165.58	26.974		
18,100.00	7,730.00	5,450.00	5,450.00	151.83	94.20	50.35	-4,237.34	1,778.04	4,528.19	4,362.05	166.14	27.255		
18,200.00	7,730.00	5,450.00	5,450.00	153.37	94.20	50.35	-4,237.34	1,778.04	4,591.30	4,424.62	166.69	27.544		
18,300.00	7,730.00	5,450.00	5,450.00	154.90	94.20	50.35	-4,237.34	1,778.04	4,655.71	4,488.50	167.21	27.844		
18,400.00	7,730.00	5,450.00	5,450.00	156.45	94.20	50.35	-4,237.34	1,778.04	4,721.35	4,553.64	167.71	28.152		
18,500.00	7,730.00	5,450.00	5,450.00	158.00	94.20	50.35	-4,237.34	1,778.04	4,788.19	4,619.99	168.19	28.469		
18,600.00	7,730.00	5,450.00	5,450.00	159.55	94.20	50.35	-4,237.34	1,778.04	4,856.16	4,687.50	168.65	28.794		
18,700.00	7,730.00	5,450.00	5,450.00	161.11	94.20	50.35	-4,237.34	1,778.04	4,925.22	4,756.12	169.10	29.127		
18,800.00	7,730.00	5,450.00	5,450.00	162.68	94.20	50.35	-4,237.34	1,778.04	4,995.33	4,825.81	169.52	29.467		
18,900.00	7,730.00	5,450.00	5,450.00	164.25	94.20	50.35	-4,237.34	1,778.04	5,066.45	4,896.52	169.93	29.815		
19,000.00	7,730.00	5,450.00	5,450.00	165.83	94.20	50.35	-4,237.34	1,778.04	5,138.53	4,968.21	170.32	30.170		
19,100.00	7,730.00	5,450.00	5,450.00	167.41	94.20	50.35	-4,237.34	1,778.04	5,211.53	5,040.83	170.69	30.532		
19,200.00	7,730.00	5,450.00	5,450.00	168.99	94.20	50.35	-4,237.34	1,778.04	5,285.41	5,114.36	171.05	30.900		
19,300.00	7,730.00	5,450.00	5,450.00	170.58	94.20	50.35	-4,237.34	1,778.04	5,360.14	5,188.75	171.39	31.274		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	5,450.00	5,450.00	172.17	94.20	50.35	-4,237.34	1,778.04	5,435.68	5,263.96	171.72	31.655	
19,430.54	7,730.00	5,450.00	5,450.00	172.66	94.20	50.35	-4,237.34	1,778.04	5,458.91	5,287.09	171.81	31.772	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	155.26	-4,568.82	2,105.73	5,030.73					
100.00	100.00	72.71	72.71	0.13	0.12	155.26	-4,569.04	2,105.60	5,030.92	5,030.67	0.25	N/A		
200.00	200.00	168.27	168.27	0.49	0.41	155.27	-4,569.81	2,105.16	5,031.45	5,030.55	0.90	5,603.369		
300.00	300.00	288.11	288.11	0.85	0.83	155.27	-4,570.50	2,104.65	5,031.81	5,030.12	1.69	2,984.912		
400.00	400.00	382.97	382.97	1.21	1.17	155.28	-4,570.70	2,104.54	5,031.95	5,029.57	2.38	2,112.334		
500.00	500.00	485.01	485.00	1.57	1.54	155.28	-4,570.94	2,104.54	5,032.17	5,029.06	3.10	1,621.120		
600.00	599.98	616.91	616.89	1.92	2.00	89.96	-4,571.17	2,103.86	5,032.13	5,028.21	3.92	1,282.124		
700.00	699.84	781.17	781.14	2.28	2.57	90.10	-4,569.77	2,101.90	5,030.74	5,025.90	4.85	1,038.168		
800.00	799.45	875.10	875.06	2.64	2.89	90.23	-4,568.47	2,100.85	5,029.04	5,023.51	5.53	908.915		
900.00	898.70	974.98	974.93	3.02	3.24	90.40	-4,567.16	2,099.89	5,027.50	5,021.24	6.26	803.544		
1,000.00	997.47	1,109.73	1,109.64	3.41	3.71	90.68	-4,564.90	2,098.53	5,025.70	5,018.58	7.12	705.579		
1,100.00	1,095.62	1,179.13	1,179.03	3.84	3.95	90.87	-4,563.72	2,097.79	5,023.92	5,016.13	7.79	644.971		
1,200.00	1,193.06	1,268.87	1,268.76	4.29	4.27	91.13	-4,562.46	2,096.97	5,022.62	5,014.06	8.56	586.808		
1,300.00	1,289.64	1,355.19	1,355.07	4.78	4.58	91.41	-4,561.28	2,096.30	5,021.61	5,012.25	9.36	536.730		
1,400.00	1,385.27	1,434.95	1,434.82	5.32	4.86	91.69	-4,560.51	2,095.53	5,021.10	5,010.93	10.17	493.532		
1,432.52	1,416.14	1,460.21	1,460.08	5.50	4.95	91.78	-4,560.32	2,095.29	5,021.07	5,010.62	10.45	480.356		
1,500.00	1,479.82	1,514.02	1,513.89	5.90	5.14	91.99	-4,560.00	2,094.84	5,021.22	5,010.18	11.04	454.883		
1,600.00	1,573.17	1,601.04	1,600.90	6.53	5.45	92.33	-4,559.59	2,094.15	5,021.88	5,009.89	11.98	419.030		
1,700.00	1,665.21	1,701.35	1,701.21	7.23	5.81	92.77	-4,559.12	2,093.29	5,022.95	5,009.91	13.03	385.345		
1,800.00	1,755.84	1,772.88	1,772.74	7.98	6.06	93.08	-4,558.88	2,092.65	5,024.62	5,010.58	14.04	357.819		
1,900.00	1,844.94	1,854.92	1,854.77	8.80	6.36	93.46	-4,558.86	2,091.94	5,027.14	5,011.99	15.15	331.830		
2,000.00	1,932.39	1,941.93	1,941.77	9.68	6.67	93.89	-4,558.95	2,090.94	5,030.33	5,013.99	16.34	307.860		
2,100.00	2,018.11	2,033.56	2,033.40	10.63	7.00	94.36	-4,559.01	2,089.90	5,034.27	5,016.65	17.61	285.830		
2,200.00	2,101.97	2,129.11	2,128.94	11.65	7.34	94.87	-4,558.88	2,088.58	5,038.80	5,019.83	18.97	265.650		
2,300.00	2,183.88	2,210.09	2,209.91	12.74	7.63	95.29	-4,558.68	2,087.57	5,044.22	5,023.88	20.34	248.012		
2,400.00	2,263.74	2,297.43	2,297.24	13.90	7.94	95.77	-4,558.40	2,086.44	5,050.59	5,028.79	21.80	231.677		
2,431.61	2,288.54	2,321.09	2,320.90	14.29	8.03	95.90	-4,558.31	2,086.10	5,052.81	5,030.55	22.26	226.981		
2,500.00	2,341.97	2,371.31	2,371.12	15.13	8.21	96.26	-4,558.15	2,085.40	5,057.94	5,034.67	23.27	217.395		
2,600.00	2,420.08	2,454.52	2,454.32	16.37	8.50	96.85	-4,557.85	2,084.34	5,066.11	5,041.32	24.78	204.430		
2,700.00	2,498.20	2,541.13	2,540.92	17.63	8.81	97.46	-4,557.30	2,083.44	5,074.89	5,048.57	26.32	192.840		
2,800.00	2,576.32	2,631.28	2,631.06	18.89	9.14	98.10	-4,556.59	2,082.49	5,084.32	5,056.45	27.87	182.441		
2,900.00	2,654.43	2,723.19	2,722.96	20.17	9.46	98.75	-4,555.58	2,081.25	5,094.20	5,064.78	29.43	173.105		
3,000.00	2,732.55	2,788.38	2,788.14	21.45	9.70	99.22	-4,554.93	2,080.25	5,104.90	5,074.01	30.89	165.248		
3,100.00	2,810.67	2,858.80	2,858.55	22.74	9.95	99.71	-4,554.41	2,078.99	5,116.52	5,084.14	32.37	158.045		
3,200.00	2,888.78	2,929.91	2,929.64	24.03	10.21	100.22	-4,554.05	2,077.37	5,128.98	5,095.13	33.85	151.501		
3,300.00	2,966.90	3,001.05	3,000.76	25.33	10.46	100.73	-4,553.78	2,075.71	5,142.30	5,106.97	35.33	145.548		
3,400.00	3,045.02	3,068.78	3,068.47	26.63	10.70	101.21	-4,553.62	2,074.17	5,156.49	5,119.70	36.79	140.165		
3,500.00	3,123.13	3,150.78	3,150.45	27.94	11.00	101.78	-4,553.49	2,072.37	5,171.51	5,133.21	38.29	135.050		
3,600.00	3,201.25	3,234.08	3,233.73	29.24	11.30	102.37	-4,553.18	2,070.47	5,187.09	5,147.30	39.80	130.343		
3,700.00	3,279.37	3,305.91	3,305.54	30.55	11.56	102.87	-4,552.92	2,069.03	5,203.45	5,162.20	41.25	126.150		
3,800.00	3,357.49	3,378.43	3,378.05	31.86	11.82	103.38	-4,552.71	2,067.58	5,220.61	5,177.91	42.69	122.277		
3,900.00	3,435.60	3,446.71	3,446.31	33.18	12.06	103.85	-4,552.62	2,066.12	5,238.57	5,194.46	44.12	118.744		
4,000.00	3,513.72	3,516.60	3,516.19	34.49	12.31	104.33	-4,552.64	2,064.72	5,257.39	5,211.86	45.53	115.460		
4,100.00	3,591.84	3,599.75	3,599.32	35.81	12.61	104.90	-4,552.63	2,063.20	5,276.91	5,229.92	46.99	112.291		
4,200.00	3,669.95	3,670.44	3,670.00	37.12	12.87	105.39	-4,552.63	2,061.90	5,297.12	5,248.73	48.39	109.457		
4,300.00	3,748.07	3,751.19	3,750.73	38.44	13.16	105.94	-4,552.68	2,060.31	5,318.07	5,268.25	49.82	106.738		
4,400.00	3,826.19	3,833.12	3,832.65	39.76	13.45	106.49	-4,552.62	2,058.69	5,339.58	5,288.34	51.25	104.193		
4,500.00	3,904.30	3,907.33	3,906.85	41.08	13.72	106.99	-4,552.56	2,057.30	5,361.78	5,309.15	52.63	101.877		
4,600.00	3,982.42	3,979.29	3,978.80	42.40	13.98	107.47	-4,552.56	2,056.02	5,384.69	5,330.70	53.99	99.730		
4,700.00	4,060.54	4,075.88	4,075.37	43.72	14.32	108.11	-4,552.47	2,054.39	5,408.20	5,352.76	55.44	97.551		
4,800.00	4,138.66	4,179.81	4,179.29	45.05	14.69	108.79	-4,551.86	2,052.99	5,431.98	5,375.07	56.90	95.459		
4,900.00	4,216.77	4,280.44	4,279.91	46.37	15.05	109.44	-4,550.80	2,052.33	5,456.02	5,397.68	58.34	93.521		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,351.06	4,350.52	47.69	15.30	109.89	-4,549.92	2,052.18	5,480.52	5,420.87	59.65	91.879		
5,100.00	4,373.01	4,415.21	4,414.67	49.02	15.52	110.30	-4,549.28	2,052.14	5,505.82	5,444.90	60.92	90.375		
5,200.00	4,451.12	4,481.68	4,481.14	50.34	15.75	110.72	-4,548.78	2,052.05	5,531.88	5,469.69	62.19	88.948		
5,300.00	4,529.24	4,553.71	4,553.17	51.67	16.01	111.17	-4,548.35	2,051.80	5,558.66	5,495.19	63.47	87.574		
5,400.00	4,607.36	4,640.44	4,639.89	52.99	16.32	111.72	-4,547.86	2,051.09	5,586.03	5,521.23	64.80	86.201		
5,500.00	4,685.47	4,756.15	4,755.59	54.32	16.73	112.44	-4,546.63	2,049.30	5,613.63	5,547.40	66.23	84.758		
5,600.00	4,763.59	4,856.89	4,856.30	55.64	17.09	113.07	-4,544.90	2,047.48	5,641.29	5,573.70	67.59	83.466		
5,700.00	4,841.71	4,937.16	4,936.54	56.97	17.38	113.57	-4,543.37	2,046.03	5,669.38	5,600.52	68.85	82.339		
5,800.00	4,919.83	5,009.00	5,008.35	58.30	17.64	114.02	-4,542.03	2,044.74	5,698.06	5,627.98	70.07	81.314		
5,900.00	4,997.94	5,072.00	5,071.33	59.62	17.86	114.41	-4,540.97	2,043.55	5,727.44	5,656.19	71.25	80.386		
6,000.00	5,076.06	5,136.75	5,136.06	60.95	18.09	114.80	-4,540.04	2,042.25	5,757.55	5,685.14	72.42	79.505		
6,100.00	5,154.18	5,203.36	5,202.66	62.28	18.33	115.21	-4,539.20	2,040.80	5,788.36	5,714.78	73.58	78.668		
6,200.00	5,232.29	5,281.68	5,280.94	63.61	18.62	115.68	-4,538.26	2,039.07	5,819.76	5,744.98	74.78	77.828		
6,300.00	5,310.41	5,371.31	5,370.55	64.93	18.94	116.22	-4,537.11	2,037.11	5,851.61	5,775.60	76.01	76.987		
6,400.00	5,388.53	5,453.67	5,452.87	66.26	19.23	116.71	-4,535.88	2,035.24	5,883.81	5,806.62	77.20	76.218		
6,500.00	5,466.64	5,528.86	5,528.04	67.59	19.50	117.16	-4,534.74	2,033.50	5,916.52	5,838.18	78.35	75.519		
6,600.00	5,544.76	5,600.96	5,600.12	68.92	19.76	117.58	-4,533.74	2,032.11	5,949.78	5,870.31	79.47	74.868		
6,700.00	5,622.88	5,674.87	5,674.01	70.25	20.03	118.01	-4,532.81	2,030.88	5,983.59	5,903.00	80.59	74.245		
6,800.00	5,701.00	5,741.07	5,740.20	71.58	20.27	118.39	-4,532.04	2,029.84	6,017.94	5,936.27	81.67	73.685		
6,900.00	5,779.11	5,804.70	5,803.82	72.91	20.49	118.75	-4,531.51	2,029.09	6,052.95	5,970.22	82.73	73.167		
7,000.00	5,857.23	5,888.77	5,887.89	74.23	20.80	119.22	-4,530.87	2,028.19	6,088.45	6,004.59	83.86	72.601		
7,100.00	5,935.35	6,049.34	6,048.43	75.56	21.37	120.12	-4,528.54	2,026.07	6,123.98	6,038.68	85.30	71.796		
7,200.00	6,013.46	6,139.43	6,138.48	76.89	21.69	120.61	-4,526.30	2,025.34	6,158.97	6,072.54	86.43	71.259		
7,300.00	6,091.58	6,200.00	6,199.03	78.22	21.90	120.94	-4,524.93	2,024.19	6,194.74	6,107.31	87.43	70.854		
7,400.00	6,169.70	6,243.32	6,242.33	79.55	22.06	121.18	-4,524.09	2,023.16	6,231.24	6,142.90	88.35	70.531		
7,500.00	6,247.81	6,300.00	6,298.99	80.88	22.26	121.49	-4,523.18	2,021.98	6,268.42	6,179.11	89.31	70.189		
7,600.00	6,325.93	6,343.24	6,342.21	82.21	22.42	121.73	-4,522.66	2,021.06	6,306.36	6,216.16	90.20	69.916		
7,700.00	6,404.05	7,700.00	6,458.28	83.54	27.26	122.35	-4,521.46	2,018.43	6,344.90	6,249.09	95.81	66.222		
7,800.00	6,482.17	7,800.00	6,641.40	84.87	27.52	123.31	-4,517.62	2,017.35	6,382.53	6,285.64	96.89	65.875		
7,900.00	6,560.28	6,803.79	6,802.58	86.20	24.04	124.12	-4,512.33	2,018.29	6,419.45	6,325.25	94.20	68.147		
8,000.00	6,638.40	6,833.59	6,832.36	87.53	24.14	124.27	-4,511.34	2,018.54	6,456.69	6,361.68	95.01	67.956		
8,100.00	6,716.52	6,865.78	6,864.53	88.86	24.25	124.42	-4,510.51	2,018.82	6,494.87	6,399.05	95.82	67.782		
8,200.00	6,794.63	6,900.00	6,898.75	90.20	24.37	124.59	-4,509.89	2,019.14	6,533.96	6,437.34	96.62	67.625		
8,300.00	6,872.75	6,986.25	6,984.99	91.53	24.67	125.02	-4,508.30	2,018.94	6,573.64	6,476.01	97.63	67.330		
8,400.00	6,950.87	7,074.50	7,073.21	92.86	24.98	125.45	-4,506.33	2,018.13	6,613.53	6,514.89	98.64	67.047		
8,500.00	7,028.98	7,132.98	7,131.67	94.19	25.19	125.73	-4,505.30	2,018.51	6,653.77	6,554.25	99.52	66.859		
8,600.00	7,107.10	7,178.76	7,177.45	95.52	25.35	125.95	-4,504.67	2,018.63	6,694.69	6,594.36	100.33	66.727		
8,647.91	7,144.53	7,200.00	7,198.69	96.16	25.42	126.05	-4,504.43	2,018.61	6,714.55	6,613.84	100.71	66.672		
8,650.00	7,146.16	7,200.00	7,198.69	96.18	25.42	125.78	-4,504.43	2,018.61	6,715.42	6,614.69	100.72	66.672		
8,700.00	7,185.66	7,229.69	7,228.37	96.84	25.52	119.19	-4,504.14	2,018.49	6,734.22	6,633.05	101.16	66.568		
8,750.00	7,225.78	7,257.82	7,256.51	97.47	25.63	112.29	-4,503.88	2,018.28	6,749.23	6,647.61	101.61	66.421		
8,800.00	7,266.21	7,286.00	7,284.68	98.08	25.73	105.28	-4,503.65	2,017.97	6,760.36	6,658.29	102.07	66.231		
8,850.00	7,306.63	7,330.24	7,328.92	98.64	25.88	98.46	-4,503.28	2,017.37	6,767.52	6,664.91	102.61	65.953		
8,900.00	7,346.75	7,390.11	7,388.78	99.17	26.10	92.07	-4,502.65	2,016.58	6,770.54	6,667.31	103.22	65.592		
8,950.00	7,386.25	7,431.55	7,430.21	99.64	26.25	86.15	-4,502.13	2,016.01	6,769.42	6,665.67	103.75	65.250		
9,000.00	7,424.84	7,468.35	7,467.00	100.06	26.38	80.88	-4,501.62	2,015.39	6,764.26	6,660.02	104.24	64.893		
9,050.00	7,462.22	7,503.75	7,502.39	100.42	26.51	76.37	-4,501.11	2,014.69	6,755.12	6,650.41	104.71	64.515		
9,100.00	7,498.11	7,524.78	7,523.42	100.74	26.58	72.53	-4,500.84	2,014.31	6,742.11	6,637.02	105.09	64.153		
9,150.00	7,532.24	7,546.21	7,544.84	100.99	26.66	69.45	-4,500.64	2,014.00	6,725.35	6,619.89	105.47	63.768		
9,200.00	7,564.34	7,566.57	7,565.20	101.19	26.73	67.07	-4,500.52	2,013.78	6,704.96	6,599.14	105.81	63.367		
9,250.00	7,594.17	7,585.70	7,584.33	101.34	26.80	65.38	-4,500.46	2,013.65	6,681.06	6,574.94	106.13	62.953		
9,300.00	7,621.50	7,613.24	7,611.87	101.45	26.90	64.43	-4,500.46	2,013.55	6,653.84	6,547.37	106.46	62.499		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	9,350.00	7,761.77	101.50	32.98	65.29	-4,498.84	2,013.42	6,623.07	6,510.17	112.90	58.665		
9,400.00	7,667.87	9,400.00	7,782.80	101.51	33.15	65.85	-4,498.46	2,013.50	6,589.29	6,476.04	113.26	58.180		
9,450.00	7,686.55	9,450.00	7,800.72	101.48	33.33	67.20	-4,498.14	2,013.57	6,552.86	6,439.27	113.59	57.688		
9,500.00	7,702.04	7,800.00	7,798.61	101.42	27.55	69.25	-4,498.18	2,013.57	6,514.06	6,406.12	107.93	60.352		
9,550.00	7,714.20	7,800.00	7,798.61	101.33	27.55	72.43	-4,498.18	2,013.57	6,473.15	6,365.12	108.04	59.916		
9,600.00	7,722.96	7,800.00	7,798.61	101.20	27.55	76.97	-4,498.18	2,013.57	6,430.43	6,322.30	108.12	59.474		
9,650.00	7,728.24	7,800.00	7,798.61	101.06	27.55	83.26	-4,498.18	2,013.57	6,386.16	6,277.97	108.19	59.025		
9,699.97	7,730.00	7,800.00	7,798.61	100.90	27.55	91.72	-4,498.18	2,013.57	6,340.70	6,232.45	108.26	58.571		
9,800.00	7,730.00	7,800.00	7,798.61	100.56	27.55	91.72	-4,498.18	2,013.57	6,248.82	6,140.45	108.37	57.661		
9,900.00	7,730.00	7,800.00	7,798.61	100.24	27.55	91.72	-4,498.18	2,013.57	6,157.21	6,048.72	108.49	56.752		
10,000.00	7,730.00	7,800.00	7,798.61	99.93	27.55	91.72	-4,498.18	2,013.57	6,065.87	5,957.25	108.62	55.846		
10,100.00	7,730.00	7,800.00	7,798.61	99.64	27.55	91.72	-4,498.18	2,013.57	5,974.81	5,866.06	108.75	54.941		
10,200.00	7,730.00	7,800.00	7,798.61	99.36	27.55	91.72	-4,498.18	2,013.57	5,884.04	5,775.15	108.89	54.038		
10,300.00	7,730.00	7,800.00	7,798.61	99.09	27.55	91.72	-4,498.18	2,013.57	5,793.57	5,684.54	109.03	53.138		
10,400.00	7,730.00	7,800.00	7,798.61	98.84	27.55	91.72	-4,498.18	2,013.57	5,703.42	5,594.24	109.18	52.240		
10,500.00	7,730.00	7,800.00	7,798.61	98.61	27.55	91.72	-4,498.18	2,013.57	5,613.60	5,504.27	109.33	51.344		
10,600.00	7,730.00	7,800.00	7,798.61	98.39	27.55	91.72	-4,498.18	2,013.57	5,524.13	5,414.64	109.50	50.451		
10,700.00	7,730.00	7,800.00	7,798.61	98.18	27.55	91.72	-4,498.18	2,013.57	5,435.03	5,325.37	109.66	49.560		
10,800.00	7,730.00	7,800.00	7,798.61	97.99	27.55	91.72	-4,498.18	2,013.57	5,346.32	5,236.48	109.84	48.673		
10,900.00	7,730.00	7,800.00	7,798.61	97.81	27.55	91.72	-4,498.18	2,013.57	5,258.01	5,147.98	110.03	47.789		
11,000.00	7,730.00	7,800.00	7,798.61	97.64	27.55	91.72	-4,498.18	2,013.57	5,170.13	5,059.91	110.22	46.908		
11,100.00	7,730.00	7,800.00	7,798.61	97.50	27.55	91.72	-4,498.18	2,013.57	5,082.69	4,972.27	110.42	46.031		
11,200.00	7,730.00	7,800.00	7,798.61	97.36	27.55	91.72	-4,498.18	2,013.57	4,995.73	4,885.10	110.63	45.157		
11,300.00	7,730.00	7,800.00	7,798.61	97.24	27.55	91.72	-4,498.18	2,013.57	4,909.26	4,798.41	110.85	44.288		
11,400.00	7,730.00	7,800.00	7,798.61	97.14	27.55	91.72	-4,498.18	2,013.57	4,823.31	4,712.24	111.08	43.423		
11,500.00	7,730.00	11,500.00	7,807.18	97.06	40.50	91.92	-4,498.02	2,013.60	4,737.91	4,613.62	124.30	38.118		
11,600.00	7,730.00	11,600.00	7,805.37	96.98	40.85	91.87	-4,498.05	2,013.59	4,653.11	4,528.21	124.89	37.257		
11,700.00	7,730.00	7,800.00	7,798.61	96.93	27.55	91.72	-4,498.18	2,013.57	4,568.91	4,457.09	111.83	40.857		
11,800.00	7,730.00	7,800.00	7,798.61	96.90	27.55	91.72	-4,498.18	2,013.57	4,485.37	4,373.27	112.10	40.013		
11,900.00	7,730.00	7,800.00	7,798.61	96.88	27.55	91.72	-4,498.18	2,013.57	4,402.51	4,290.12	112.38	39.174		
12,000.00	7,730.00	7,800.00	7,798.61	96.88	27.55	91.72	-4,498.18	2,013.57	4,320.37	4,207.69	112.68	38.342		
12,100.00	7,730.00	7,800.00	7,798.61	96.90	27.55	91.72	-4,498.18	2,013.57	4,239.00	4,126.01	112.99	37.517		
12,200.00	7,730.00	7,800.00	7,798.61	96.94	27.55	91.72	-4,498.18	2,013.57	4,158.45	4,045.14	113.31	36.700		
12,300.00	7,730.00	7,800.00	7,798.61	97.00	27.55	91.72	-4,498.18	2,013.57	4,078.75	3,965.11	113.65	35.890		
12,400.00	7,730.00	7,800.00	7,798.61	97.08	27.55	91.72	-4,498.18	2,013.57	3,999.97	3,885.97	114.00	35.089		
12,500.00	7,730.00	7,800.00	7,798.61	97.18	27.55	91.72	-4,498.18	2,013.57	3,922.15	3,807.79	114.36	34.297		
12,600.00	7,730.00	7,800.00	7,798.61	97.31	27.55	91.72	-4,498.18	2,013.57	3,845.36	3,730.63	114.74	33.514		
12,700.00	7,730.00	7,800.00	7,798.61	97.46	27.55	91.72	-4,498.18	2,013.57	3,769.66	3,654.53	115.13	32.742		
12,800.00	7,730.00	7,800.00	7,798.61	97.64	27.55	91.72	-4,498.18	2,013.57	3,695.12	3,579.58	115.54	31.982		
12,900.00	7,730.00	7,800.00	7,798.61	97.85	27.55	91.72	-4,498.18	2,013.57	3,621.80	3,505.84	115.96	31.233		
13,000.00	7,730.00	13,000.00	7,779.94	98.09	45.76	91.29	-4,498.51	2,013.49	3,549.74	3,415.21	134.53	26.387		
13,100.00	7,730.00	13,100.00	7,778.12	98.35	46.11	91.25	-4,498.55	2,013.48	3,479.10	3,343.78	135.32	25.710		
13,200.00	7,730.00	13,200.00	7,776.30	98.65	46.46	91.20	-4,498.58	2,013.47	3,409.92	3,273.80	136.12	25.050		
13,300.00	7,730.00	13,300.00	7,774.49	98.98	46.81	91.16	-4,498.61	2,013.47	3,342.31	3,205.37	136.94	24.407		
13,400.00	7,730.00	13,400.00	7,772.67	99.34	47.16	91.12	-4,498.65	2,013.46	3,276.35	3,138.58	137.77	23.781		
13,500.00	7,730.00	13,500.00	7,770.85	99.74	47.51	91.08	-4,498.68	2,013.45	3,212.15	3,073.54	138.61	23.173		
13,600.00	7,730.00	13,600.00	7,769.04	100.17	47.86	91.04	-4,498.71	2,013.45	3,149.82	3,010.35	139.46	22.585		
13,700.00	7,730.00	13,700.00	7,767.22	100.65	48.21	91.00	-4,498.75	2,013.44	3,089.46	2,949.14	140.32	22.017		
13,800.00	7,730.00	13,800.00	7,765.40	101.16	48.56	90.95	-4,498.78	2,013.43	3,031.20	2,890.02	141.19	21.469		
13,900.00	7,730.00	7,811.75	7,810.36	101.71	27.59	91.99	-4,497.86	2,013.74	2,975.37	2,854.34	121.02	24.585		
14,000.00	7,730.00	7,800.90	7,799.50	102.30	27.56	91.74	-4,498.15	2,013.58	2,921.71	2,800.25	121.45	24.056		
14,100.00	7,730.00	7,791.31	7,789.92	102.93	27.52	91.52	-4,498.40	2,013.45	2,870.52	2,748.63	121.89	23.550		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
14,200.00	7,730.00	7,782.77	7,781.39	103.60	27.49	91.32	-4,498.60	2,013.35	2,821.94	2,699.62	122.33	23.069		
14,300.00	7,730.00	7,775.13	7,773.75	104.32	27.47	91.15	-4,498.78	2,013.28	2,776.11	2,653.35	122.76	22.614		
14,400.00	7,730.00	7,768.25	7,766.87	105.07	27.44	90.99	-4,498.92	2,013.22	2,733.17	2,609.99	123.18	22.188		
14,500.00	7,730.00	7,762.03	7,760.65	105.86	27.42	90.84	-4,499.05	2,013.18	2,693.25	2,569.66	123.59	21.792		
14,600.00	7,730.00	7,756.36	7,754.98	106.70	27.40	90.71	-4,499.16	2,013.14	2,656.49	2,532.51	123.97	21.428		
14,700.00	7,730.00	7,751.18	7,749.81	107.57	27.38	90.59	-4,499.26	2,013.12	2,623.03	2,498.69	124.34	21.096		
14,800.00	7,730.00	7,746.44	7,745.06	108.48	27.37	90.49	-4,499.35	2,013.10	2,592.99	2,468.32	124.66	20.800		
14,900.00	7,730.00	7,742.07	7,740.69	109.43	27.35	90.38	-4,499.42	2,013.09	2,566.49	2,441.54	124.95	20.540		
15,000.00	7,730.00	7,738.03	7,736.66	110.42	27.34	90.29	-4,499.49	2,013.08	2,543.65	2,418.45	125.20	20.317		
15,100.00	7,730.00	7,734.29	7,732.92	111.43	27.32	90.21	-4,499.55	2,013.07	2,524.56	2,399.16	125.40	20.132		
15,200.00	7,730.00	7,730.82	7,729.45	112.49	27.31	90.13	-4,499.60	2,013.07	2,509.32	2,383.77	125.55	19.987		
15,300.00	7,730.00	7,727.59	7,726.22	113.57	27.30	90.05	-4,499.65	2,013.07	2,497.99	2,372.35	125.64	19.882		
15,400.00	7,730.00	7,724.57	7,723.20	114.68	27.29	89.98	-4,499.69	2,013.07	2,490.62	2,364.94	125.68	19.818		
15,500.00	7,730.00	7,721.75	7,720.37	115.82	27.28	89.92	-4,499.73	2,013.08	2,487.25	2,361.60	125.65	19.795 SF		
15,533.88	7,730.00	7,720.83	7,719.46	116.22	27.28	89.90	-4,499.74	2,013.08	2,487.02	2,361.39	125.63	19.796 CC, ES		
15,600.00	7,730.00	7,719.10	7,717.73	116.99	27.27	89.86	-4,499.77	2,013.08	2,487.90	2,362.33	125.57	19.813		
15,700.00	7,730.00	7,716.61	7,715.24	118.19	27.26	89.80	-4,499.80	2,013.09	2,492.56	2,367.14	125.42	19.873		
15,800.00	7,730.00	7,714.27	7,712.90	119.41	27.25	89.74	-4,499.83	2,013.10	2,501.21	2,375.99	125.22	19.975		
15,900.00	7,730.00	7,712.06	7,710.69	120.65	27.25	89.69	-4,499.86	2,013.10	2,513.81	2,388.85	124.96	20.116		
16,000.00	7,730.00	7,709.97	7,708.60	121.91	27.24	89.65	-4,499.88	2,013.11	2,530.31	2,405.65	124.65	20.299		
16,100.00	7,730.00	7,708.00	7,706.63	123.20	27.23	89.60	-4,499.90	2,013.12	2,550.62	2,426.32	124.30	20.520		
16,200.00	7,730.00	7,706.13	7,704.75	124.50	27.23	89.56	-4,499.93	2,013.13	2,574.66	2,450.75	123.90	20.780		
16,300.00	7,730.00	7,704.35	7,702.98	125.82	27.22	89.52	-4,499.94	2,013.14	2,602.31	2,478.85	123.47	21.077		
16,400.00	7,730.00	7,702.67	7,701.29	127.16	27.21	89.48	-4,499.96	2,013.15	2,633.48	2,510.48	123.00	21.410		
16,500.00	7,730.00	7,701.06	7,699.69	128.52	27.21	89.44	-4,499.98	2,013.15	2,668.03	2,545.52	122.51	21.778		
16,600.00	7,730.00	7,699.74	7,698.36	129.89	27.20	89.41	-4,499.99	2,013.16	2,705.84	2,583.84	122.00	22.179		
16,700.00	7,730.00	7,698.90	7,697.53	131.27	27.20	89.39	-4,500.00	2,013.17	2,746.77	2,625.29	121.48	22.611		
16,800.00	7,730.00	7,698.08	7,696.71	132.67	27.20	89.37	-4,500.01	2,013.17	2,790.69	2,669.74	120.95	23.074		
16,900.00	7,730.00	7,697.27	7,695.90	134.09	27.19	89.35	-4,500.02	2,013.18	2,837.45	2,717.04	120.41	23.565		
17,000.00	7,730.00	7,696.48	7,695.11	135.51	27.19	89.33	-4,500.03	2,013.18	2,886.91	2,767.05	119.87	24.084		
17,100.00	7,730.00	7,695.70	7,694.33	136.95	27.19	89.32	-4,500.03	2,013.19	2,938.95	2,819.62	119.33	24.629		
17,200.00	7,730.00	7,694.93	7,693.56	138.40	27.19	89.30	-4,500.04	2,013.19	2,993.43	2,874.63	118.79	25.198		
17,300.00	7,730.00	7,694.18	7,692.81	139.85	27.18	89.28	-4,500.05	2,013.19	3,050.21	2,931.94	118.27	25.790		
17,400.00	7,730.00	7,693.44	7,692.07	141.32	27.18	89.26	-4,500.05	2,013.20	3,109.17	2,991.41	117.75	26.404		
17,500.00	7,730.00	7,692.72	7,691.34	142.80	27.18	89.25	-4,500.06	2,013.20	3,170.19	3,052.94	117.25	27.038		
17,600.00	7,730.00	7,692.00	7,690.63	144.28	27.18	89.23	-4,500.07	2,013.21	3,233.15	3,116.39	116.76	27.690		
17,700.00	7,730.00	7,691.30	7,689.93	145.78	27.17	89.22	-4,500.07	2,013.21	3,297.94	3,181.65	116.29	28.360		
17,800.00	7,730.00	7,690.61	7,689.24	147.28	27.17	89.20	-4,500.08	2,013.21	3,364.46	3,248.63	115.83	29.047		
17,900.00	7,730.00	7,689.93	7,688.56	148.79	27.17	89.18	-4,500.09	2,013.22	3,432.60	3,317.21	115.39	29.749		
18,000.00	7,730.00	7,689.26	7,687.89	150.31	27.17	89.17	-4,500.09	2,013.22	3,502.27	3,387.31	114.96	30.465		
18,100.00	7,730.00	7,688.60	7,687.23	151.83	27.16	89.15	-4,500.10	2,013.23	3,573.38	3,458.82	114.55	31.194		
18,200.00	7,730.00	7,687.95	7,686.58	153.37	27.16	89.14	-4,500.11	2,013.23	3,645.85	3,531.68	114.16	31.935		
18,300.00	7,730.00	7,687.32	7,685.95	154.90	27.16	89.12	-4,500.11	2,013.23	3,719.59	3,605.80	113.79	32.688		
18,400.00	7,730.00	7,686.69	7,685.32	156.45	27.16	89.11	-4,500.12	2,013.24	3,794.53	3,681.10	113.43	33.452		
18,500.00	7,730.00	7,686.07	7,684.70	158.00	27.15	89.09	-4,500.12	2,013.24	3,870.61	3,757.52	113.09	34.225		
18,600.00	7,730.00	7,685.46	7,684.09	159.55	27.15	89.08	-4,500.13	2,013.24	3,947.76	3,834.99	112.77	35.008		
18,700.00	7,730.00	7,684.87	7,683.49	161.11	27.15	89.07	-4,500.13	2,013.25	4,025.91	3,913.45	112.46	35.798		
18,800.00	7,730.00	7,684.28	7,682.91	162.68	27.15	89.05	-4,500.14	2,013.25	4,105.01	3,992.84	112.17	36.597		
18,900.00	7,730.00	7,683.70	7,682.32	164.25	27.15	89.04	-4,500.14	2,013.25	4,185.00	4,073.11	111.89	37.403		
19,000.00	7,730.00	7,683.12	7,681.75	165.83	27.14	89.03	-4,500.15	2,013.26	4,265.84	4,154.21	111.62	38.216		
19,100.00	7,730.00	7,682.56	7,681.19	167.41	27.14	89.01	-4,500.15	2,013.26	4,347.47	4,236.10	111.37	39.035		
19,200.00	7,730.00	7,682.01	7,680.63	168.99	27.14	89.00	-4,500.16	2,013.26	4,429.86	4,318.72	111.14	39.860		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		100-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,681.46	7,680.09	170.58	27.14	88.99	-4,500.16	2,013.26	4,512.96	4,402.05	110.91	40.690	
19,400.00	7,730.00	7,680.92	7,679.55	172.17	27.14	88.98	-4,500.16	2,013.27	4,596.73	4,486.04	110.70	41.525	
19,430.54	7,730.00	7,680.76	7,679.39	172.66	27.14	88.97	-4,500.17	2,013.27	4,622.44	4,511.81	110.63	41.781	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	18.00	18.00	0.00	0.14	163.68	-7,180.03	2,101.75	7,481.32					
100.00	100.00	118.00	118.00	0.13	1.09	163.68	-7,180.03	2,101.75	7,481.32	7,480.10	1.23	6,105.913		
200.00	200.00	218.00	218.00	0.49	2.84	163.68	-7,180.03	2,101.75	7,481.32	7,477.99	3.33	2,247.278		
300.00	300.00	318.00	318.00	0.85	4.58	163.68	-7,180.03	2,101.75	7,481.32	7,475.89	5.43	1,377.051		
400.00	400.00	418.00	418.00	1.21	6.33	163.68	-7,180.03	2,101.75	7,481.32	7,473.79	7.54	992.657		
500.00	500.00	518.00	518.00	1.57	8.07	163.68	-7,180.03	2,101.75	7,481.32	7,471.68	9.64	776.034		
600.00	599.98	617.98	617.98	1.92	9.82	98.34	-7,180.03	2,101.75	7,481.58	7,469.84	11.74	637.296		
700.00	699.84	717.84	717.84	2.28	11.56	98.37	-7,180.03	2,101.75	7,482.34	7,468.50	13.84	540.758		
800.00	799.45	817.45	817.45	2.64	13.30	98.41	-7,180.03	2,101.75	7,483.61	7,467.68	15.94	469.524		
900.00	898.70	916.70	916.70	3.02	15.03	98.46	-7,180.03	2,101.75	7,485.41	7,467.37	18.05	414.748		
1,000.00	997.47	1,015.47	1,015.47	3.41	16.75	98.53	-7,180.03	2,101.75	7,487.75	7,467.59	20.17	371.262		
1,100.00	1,095.62	1,113.62	1,113.62	3.84	18.47	98.62	-7,180.03	2,101.75	7,490.65	7,468.35	22.30	335.853		
1,200.00	1,193.06	1,211.06	1,211.06	4.29	20.17	98.71	-7,180.03	2,101.75	7,494.13	7,469.67	24.46	306.423		
1,300.00	1,289.64	1,307.64	1,307.64	4.78	21.85	98.82	-7,180.03	2,101.75	7,498.21	7,471.58	26.63	281.546		
1,400.00	1,385.27	1,403.27	1,403.27	5.32	23.52	98.94	-7,180.03	2,101.75	7,502.93	7,474.09	28.83	260.220		
1,500.00	1,479.82	1,502.18	1,497.82	5.90	25.25	99.07	-7,180.03	2,101.75	7,508.31	7,477.17	31.14	241.130		
1,600.00	1,573.17	1,608.83	1,591.17	6.53	27.11	99.20	-7,180.03	2,101.75	7,514.39	7,480.76	33.63	223.450		
1,700.00	1,665.21	1,683.21	1,683.21	7.23	28.41	99.33	-7,180.03	2,101.75	7,521.21	7,485.60	35.61	211.201		
1,800.00	1,755.84	1,773.84	1,773.84	7.98	29.99	99.47	-7,180.03	2,101.75	7,528.81	7,490.87	37.94	198.463		
1,900.00	1,844.94	1,862.94	1,862.94	8.80	31.55	99.61	-7,180.03	2,101.75	7,537.23	7,496.93	40.29	187.058		
2,000.00	1,932.39	1,950.39	1,950.39	9.68	33.07	99.75	-7,180.03	2,101.75	7,546.51	7,503.82	42.69	176.794		
2,100.00	2,018.11	2,036.11	2,036.11	10.63	34.57	99.88	-7,180.03	2,101.75	7,556.70	7,511.59	45.11	167.515		
2,200.00	2,101.97	2,119.97	2,119.97	11.65	36.03	100.00	-7,180.03	2,101.75	7,567.84	7,520.27	47.57	159.092		
2,300.00	2,183.88	2,201.88	2,201.88	12.74	37.46	100.11	-7,180.03	2,101.75	7,579.97	7,529.91	50.06	151.421		
2,400.00	2,263.74	2,281.74	2,281.74	13.90	38.86	100.21	-7,180.03	2,101.75	7,593.15	7,540.57	52.58	144.414		
2,431.61	2,288.54	2,306.54	2,306.54	14.29	39.29	100.24	-7,180.03	2,101.75	7,597.54	7,544.16	53.38	142.328		
2,500.00	2,341.97	2,359.97	2,359.97	15.13	40.22	100.49	-7,180.03	2,101.75	7,607.27	7,552.15	55.12	138.008		
2,600.00	2,420.08	2,438.08	2,438.08	16.37	41.58	100.85	-7,180.03	2,101.75	7,621.91	7,564.23	57.68	132.142		
2,700.00	2,498.20	2,516.20	2,516.20	17.63	42.95	101.21	-7,180.03	2,101.75	7,637.03	7,576.78	60.24	126.766		
2,800.00	2,576.32	2,605.68	2,594.32	18.89	44.51	101.58	-7,180.03	2,101.75	7,652.62	7,589.61	63.01	121.443		
2,900.00	2,654.43	2,672.43	2,672.43	20.17	45.67	101.94	-7,180.03	2,101.75	7,668.70	7,603.31	65.39	117.277		
3,000.00	2,732.55	2,750.55	2,750.55	21.45	47.04	102.30	-7,180.03	2,101.75	7,685.25	7,617.28	67.97	113.076		
3,100.00	2,810.67	2,828.67	2,828.67	22.74	48.40	102.66	-7,180.03	2,101.75	7,702.26	7,631.72	70.54	109.189		
3,200.00	2,888.78	2,906.78	2,906.78	24.03	49.76	103.02	-7,180.03	2,101.75	7,719.75	7,646.63	73.12	105.583		
3,300.00	2,966.90	2,984.90	2,984.90	25.33	51.13	103.38	-7,180.03	2,101.75	7,737.70	7,662.01	75.69	102.231		
3,400.00	3,045.02	3,063.02	3,063.02	26.63	52.49	103.73	-7,180.03	2,101.75	7,756.11	7,677.85	78.26	99.108		
3,500.00	3,123.13	3,141.13	3,141.13	27.94	53.85	104.09	-7,180.03	2,101.75	7,774.98	7,694.15	80.83	96.194		
3,600.00	3,201.25	3,219.25	3,219.25	29.24	55.22	104.44	-7,180.03	2,101.75	7,794.30	7,710.91	83.39	93.469		
3,700.00	3,279.37	3,302.63	3,297.37	30.55	56.67	104.80	-7,180.03	2,101.75	7,814.08	7,728.03	86.04	90.818		
3,800.00	3,357.49	3,375.49	3,375.49	31.86	57.94	105.15	-7,180.03	2,101.75	7,834.30	7,745.79	88.50	88.519		
3,900.00	3,435.60	3,453.60	3,453.60	33.18	59.31	105.50	-7,180.03	2,101.75	7,854.96	7,763.91	91.05	86.267		
4,000.00	3,513.72	3,531.72	3,531.72	34.49	60.67	105.85	-7,180.03	2,101.75	7,876.07	7,782.47	93.60	84.147		
4,100.00	3,591.84	3,609.84	3,609.84	35.81	62.03	106.20	-7,180.03	2,101.75	7,897.61	7,801.47	96.14	82.149		
4,200.00	3,669.95	3,687.95	3,687.95	37.12	63.40	106.55	-7,180.03	2,101.75	7,919.59	7,820.92	98.67	80.263		
4,300.00	3,748.07	3,766.07	3,766.07	38.44	64.76	106.89	-7,180.03	2,101.75	7,942.00	7,840.80	101.20	78.479		
4,400.00	3,826.19	3,844.19	3,844.19	39.76	66.13	107.24	-7,180.03	2,101.75	7,964.83	7,861.11	103.72	76.792		
4,500.00	3,904.30	3,922.30	3,922.30	41.08	67.49	107.58	-7,180.03	2,101.75	7,988.09	7,881.85	106.23	75.193		
4,600.00	3,982.42	4,000.42	4,000.42	42.40	68.85	107.92	-7,180.03	2,101.75	8,011.76	7,903.02	108.74	73.676		
4,700.00	4,060.54	4,078.54	4,078.54	43.72	70.22	108.26	-7,180.03	2,101.75	8,035.85	7,924.61	111.25	72.235		
4,800.00	4,138.66	4,156.66	4,156.66	45.05	71.58	108.60	-7,180.03	2,101.75	8,060.35	7,946.61	113.74	70.866		
4,900.00	4,216.77	4,234.77	4,234.77	46.37	72.94	108.94	-7,180.03	2,101.75	8,085.26	7,969.04	116.23	69.563		
5,000.00	4,294.89	4,312.89	4,312.89	47.69	74.31	109.28	-7,180.03	2,101.75	8,110.58	7,991.87	118.71	68.322		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,408.99	4,391.01	49.02	75.98	109.62	-7,180.03	2,101.75	8,136.29	8,014.79	121.50	66.966		
5,200.00	4,451.12	4,469.12	4,469.12	50.34	77.03	109.95	-7,180.03	2,101.75	8,162.40	8,038.75	123.65	66.011		
5,300.00	4,529.24	4,547.24	4,547.24	51.67	78.40	110.28	-7,180.03	2,101.75	8,188.91	8,062.80	126.11	64.934		
5,400.00	4,607.36	4,625.36	4,625.36	52.99	79.76	110.61	-7,180.03	2,101.75	8,215.80	8,087.23	128.56	63.904		
5,500.00	4,685.47	4,703.47	4,703.47	54.32	81.12	110.94	-7,180.03	2,101.75	8,243.08	8,112.07	131.01	62.920		
5,600.00	4,763.59	4,781.59	4,781.59	55.64	82.49	111.27	-7,180.03	2,101.75	8,270.74	8,137.29	133.45	61.978		
5,700.00	4,841.71	4,859.71	4,859.71	56.97	83.85	111.60	-7,180.03	2,101.75	8,298.77	8,162.89	135.88	61.075		
5,800.00	4,919.83	4,937.83	4,937.83	58.30	85.21	111.92	-7,180.03	2,101.75	8,327.18	8,188.88	138.30	60.211		
5,900.00	4,997.94	5,015.94	5,015.94	59.62	86.58	112.25	-7,180.03	2,101.75	8,355.96	8,215.25	140.72	59.382		
6,000.00	5,076.06	5,105.94	5,094.06	60.95	88.15	112.57	-7,180.03	2,101.75	8,385.11	8,241.78	143.33	58.502		
6,100.00	5,154.18	5,172.18	5,172.18	62.28	89.30	112.89	-7,180.03	2,101.75	8,414.62	8,269.09	145.52	57.823		
6,200.00	5,232.29	5,250.29	5,250.29	63.61	90.67	113.21	-7,180.03	2,101.75	8,444.48	8,296.57	147.92	57.089		
6,300.00	5,310.41	5,328.41	5,328.41	64.93	92.03	113.53	-7,180.03	2,101.75	8,474.70	8,324.40	150.30	56.384		
6,400.00	5,388.53	5,406.53	5,406.53	66.26	93.39	113.85	-7,180.03	2,101.75	8,505.28	8,352.60	152.68	55.707		
6,500.00	5,466.64	5,484.64	5,484.64	67.59	94.76	114.16	-7,180.03	2,101.75	8,536.20	8,381.15	155.05	55.055		
6,600.00	5,544.76	5,562.76	5,562.76	68.92	96.12	114.48	-7,180.03	2,101.75	8,567.46	8,410.05	157.41	54.427		
6,700.00	5,622.88	5,640.88	5,640.88	70.25	97.48	114.79	-7,180.03	2,101.75	8,599.06	8,439.29	159.77	53.822		
6,800.00	5,701.00	5,719.00	5,719.00	71.58	98.85	115.10	-7,180.03	2,101.75	8,631.00	8,468.89	162.11	53.240		
6,900.00	5,779.11	5,802.89	5,797.11	72.91	100.31	115.41	-7,180.03	2,101.75	8,663.27	8,498.72	164.56	52.647		
7,000.00	5,857.23	5,875.23	5,875.23	74.23	101.57	115.71	-7,180.03	2,101.75	8,695.87	8,529.08	166.79	52.138		
7,100.00	5,935.35	5,953.35	5,953.35	75.56	102.94	116.02	-7,180.03	2,101.75	8,728.79	8,559.68	169.11	51.616		
7,200.00	6,013.46	6,031.46	6,031.46	76.89	104.30	116.32	-7,180.03	2,101.75	8,762.04	8,590.61	171.43	51.112		
7,300.00	6,091.58	6,109.58	6,109.58	78.22	105.66	116.63	-7,180.03	2,101.75	8,795.60	8,621.86	173.74	50.625		
7,400.00	6,169.70	6,187.70	6,187.70	79.55	107.03	116.93	-7,180.03	2,101.75	8,829.48	8,653.44	176.04	50.156		
7,500.00	6,247.81	6,265.81	6,265.81	80.88	108.39	117.23	-7,180.03	2,101.75	8,863.66	8,685.33	178.34	49.702		
7,600.00	6,325.93	6,343.93	6,343.93	82.21	109.75	117.52	-7,180.03	2,101.75	8,898.16	8,717.53	180.62	49.263		
7,700.00	6,404.05	6,422.05	6,422.05	83.54	111.12	117.82	-7,180.03	2,101.75	8,932.95	8,750.05	182.90	48.839		
7,800.00	6,482.17	6,500.17	6,500.17	84.87	112.48	118.11	-7,180.03	2,101.75	8,968.05	8,782.87	185.18	48.429		
7,900.00	6,560.28	6,578.28	6,578.28	86.20	113.84	118.41	-7,180.03	2,101.75	9,003.44	8,816.00	187.44	48.033		
8,000.00	6,638.40	6,656.40	6,656.40	87.53	115.21	118.70	-7,180.03	2,101.75	9,039.13	8,849.42	189.70	47.649		
8,100.00	6,716.52	6,734.52	6,734.52	88.86	116.57	118.99	-7,180.03	2,101.75	9,075.10	8,883.15	191.96	47.277		
8,200.00	6,794.63	6,812.63	6,812.63	90.20	117.93	119.28	-7,180.03	2,101.75	9,111.36	8,917.16	194.20	46.917		
8,300.00	6,872.75	6,890.75	6,890.75	91.53	119.62	119.56	-7,180.03	2,101.75	9,147.90	8,951.14	196.76	46.493		
8,400.00	6,950.87	6,968.87	6,968.87	92.86	120.66	119.85	-7,180.03	2,101.75	9,184.72	8,986.05	198.67	46.231		
8,500.00	7,028.98	7,046.98	7,046.98	94.19	122.02	120.13	-7,180.03	2,101.75	9,221.82	9,020.93	200.89	45.904		
8,600.00	7,107.10	7,125.10	7,125.10	95.52	123.39	120.41	-7,180.03	2,101.75	9,259.19	9,056.08	203.11	45.587		
8,647.91	7,144.53	7,162.53	7,162.53	96.16	124.04	120.55	-7,180.03	2,101.75	9,277.19	9,073.02	204.17	45.439		
8,650.00	7,146.16	7,164.16	7,164.16	96.18	124.07	120.29	-7,180.03	2,101.75	9,277.97	9,073.76	204.22	45.432		
8,700.00	7,185.66	7,203.66	7,203.66	96.84	124.76	113.93	-7,180.03	2,101.75	9,294.65	9,089.31	205.34	45.265		
8,750.00	7,225.78	7,243.78	7,243.78	97.47	125.46	107.22	-7,180.03	2,101.75	9,307.30	9,100.81	206.49	45.073		
8,800.00	7,266.21	7,284.21	7,284.21	98.08	126.16	100.36	-7,180.03	2,101.75	9,315.84	9,108.18	207.66	44.860		
8,850.00	7,306.63	7,324.63	7,324.63	98.64	126.87	93.57	-7,180.03	2,101.75	9,320.22	9,111.38	208.84	44.629		
8,900.00	7,346.75	7,364.75	7,364.75	99.17	127.57	87.11	-7,180.03	2,101.75	9,320.41	9,110.40	210.01	44.381		
8,950.00	7,386.25	7,404.25	7,404.25	99.64	128.26	81.15	-7,180.03	2,101.75	9,316.41	9,105.24	211.16	44.120		
9,000.00	7,424.84	7,442.84	7,442.84	100.06	128.93	75.85	-7,180.03	2,101.75	9,308.25	9,095.97	212.29	43.847		
9,050.00	7,462.22	7,480.22	7,480.22	100.42	129.59	71.27	-7,180.03	2,101.75	9,296.02	9,082.64	213.37	43.567		
9,100.00	7,498.11	7,516.11	7,516.11	100.74	130.21	67.42	-7,180.03	2,101.75	9,279.78	9,065.37	214.41	43.280		
9,150.00	7,532.24	7,550.24	7,550.24	100.99	130.81	64.29	-7,180.03	2,101.75	9,259.68	9,044.28	215.40	42.989		
9,200.00	7,564.34	7,582.34	7,582.34	101.19	131.37	61.84	-7,180.03	2,101.75	9,235.85	9,019.53	216.32	42.695		
9,250.00	7,594.17	7,612.17	7,612.17	101.34	131.89	60.06	-7,180.03	2,101.75	9,208.48	8,991.30	217.18	42.401		
9,300.00	7,621.50	7,639.50	7,639.50	101.45	132.37	58.92	-7,180.03	2,101.75	9,177.76	8,959.80	217.96	42.108		
9,350.00	7,646.13	7,664.13	7,664.13	101.50	132.80	58.45	-7,180.03	2,101.75	9,143.92	8,925.26	218.66	41.818		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	7,685.87	7,685.87	101.51	133.18	58.69	-7,180.03	2,101.75	9,107.20	8,887.92	219.29	41.531		
9,450.00	7,686.55	7,704.55	7,704.55	101.48	133.50	59.73	-7,180.03	2,101.75	9,067.88	8,848.05	219.83	41.250		
9,500.00	7,702.04	7,720.04	7,720.04	101.42	133.77	61.77	-7,180.03	2,101.75	9,026.24	8,805.95	220.28	40.976		
9,550.00	7,714.20	7,732.20	7,732.20	101.33	133.98	65.10	-7,180.03	2,101.75	8,982.58	8,761.92	220.66	40.709		
9,600.00	7,722.96	7,740.96	7,740.96	101.20	134.14	70.25	-7,180.03	2,101.75	8,937.22	8,716.28	220.94	40.450		
9,650.00	7,728.24	7,746.24	7,746.24	101.06	134.23	78.11	-7,180.03	2,101.75	8,890.49	8,669.35	221.15	40.202		
9,699.97	7,730.00	7,748.00	7,748.00	100.90	134.26	90.00	-7,180.03	2,101.75	8,842.78	8,621.51	221.27	39.964		
9,800.00	7,730.00	7,748.00	7,748.00	100.56	134.26	90.00	-7,180.03	2,101.75	8,746.51	8,525.07	221.44	39.499		
9,900.00	7,730.00	7,748.00	7,748.00	100.24	134.26	90.00	-7,180.03	2,101.75	8,650.36	8,428.75	221.61	39.035		
10,000.00	7,730.00	7,748.00	7,748.00	99.93	134.26	90.00	-7,180.03	2,101.75	8,554.29	8,332.51	221.78	38.571		
10,100.00	7,730.00	7,748.00	7,748.00	99.64	134.26	90.00	-7,180.03	2,101.75	8,458.32	8,236.35	221.96	38.107		
10,200.00	7,730.00	7,748.00	7,748.00	99.36	134.26	90.00	-7,180.03	2,101.75	8,362.44	8,140.29	222.15	37.643		
10,300.00	7,730.00	7,748.00	7,748.00	99.09	134.26	90.00	-7,180.03	2,101.75	8,266.65	8,044.31	222.34	37.180		
10,400.00	7,730.00	7,748.00	7,748.00	98.84	134.26	90.00	-7,180.03	2,101.75	8,170.97	7,948.43	222.54	36.717		
10,500.00	7,730.00	7,748.00	7,748.00	98.61	134.26	90.00	-7,180.03	2,101.75	8,075.40	7,852.65	222.75	36.254		
10,600.00	7,730.00	7,748.00	7,748.00	98.39	134.26	90.00	-7,180.03	2,101.75	7,979.93	7,756.97	222.96	35.791		
10,700.00	7,730.00	7,748.00	7,748.00	98.18	134.26	90.00	-7,180.03	2,101.75	7,884.57	7,661.40	223.17	35.329		
10,800.00	7,730.00	7,748.00	7,748.00	97.99	134.26	90.00	-7,180.03	2,101.75	7,789.33	7,565.94	223.40	34.867		
10,900.00	7,730.00	7,748.00	7,748.00	97.81	134.26	90.00	-7,180.03	2,101.75	7,694.22	7,470.59	223.63	34.406		
11,000.00	7,730.00	7,748.00	7,748.00	97.64	134.26	90.00	-7,180.03	2,101.75	7,599.22	7,375.36	223.87	33.945		
11,100.00	7,730.00	7,748.00	7,748.00	97.50	134.26	90.00	-7,180.03	2,101.75	7,504.36	7,280.25	224.11	33.485		
11,200.00	7,730.00	7,748.00	7,748.00	97.36	134.26	90.00	-7,180.03	2,101.75	7,409.63	7,185.26	224.37	33.024		
11,300.00	7,730.00	7,748.00	7,748.00	97.24	134.26	90.00	-7,180.03	2,101.75	7,315.05	7,090.41	224.63	32.565		
11,400.00	7,730.00	7,748.00	7,748.00	97.14	134.26	90.00	-7,180.03	2,101.75	7,220.60	6,995.70	224.90	32.106		
11,500.00	7,730.00	7,748.00	7,748.00	97.06	134.26	90.00	-7,180.03	2,101.75	7,126.31	6,901.13	225.18	31.647		
11,600.00	7,730.00	7,748.00	7,748.00	96.98	134.26	90.00	-7,180.03	2,101.75	7,032.18	6,806.71	225.47	31.189		
11,700.00	7,730.00	7,748.00	7,748.00	96.93	134.26	90.00	-7,180.03	2,101.75	6,938.21	6,712.45	225.77	30.732		
11,800.00	7,730.00	7,748.00	7,748.00	96.90	134.26	90.00	-7,180.03	2,101.75	6,844.42	6,618.34	226.07	30.275		
11,900.00	7,730.00	7,748.00	7,748.00	96.88	134.26	90.00	-7,180.03	2,101.75	6,750.80	6,524.40	226.39	29.819		
12,000.00	7,730.00	7,748.00	7,748.00	96.88	134.26	90.00	-7,180.03	2,101.75	6,657.36	6,430.64	226.72	29.364		
12,100.00	7,730.00	7,748.00	7,748.00	96.90	134.26	90.00	-7,180.03	2,101.75	6,564.12	6,337.06	227.06	28.909		
12,200.00	7,730.00	7,748.00	7,748.00	96.94	134.26	90.00	-7,180.03	2,101.75	6,471.09	6,243.67	227.41	28.455		
12,300.00	7,730.00	7,748.00	7,748.00	97.00	134.26	90.00	-7,180.03	2,101.75	6,378.26	6,150.48	227.78	28.002		
12,400.00	7,730.00	7,748.00	7,748.00	97.08	134.26	90.00	-7,180.03	2,101.75	6,285.65	6,057.50	228.15	27.550		
12,500.00	7,730.00	7,748.00	7,748.00	97.18	134.26	90.00	-7,180.03	2,101.75	6,193.27	5,964.73	228.54	27.099		
12,600.00	7,730.00	7,748.00	7,748.00	97.31	134.26	90.00	-7,180.03	2,101.75	6,101.14	5,872.19	228.95	26.649		
12,700.00	7,730.00	7,748.00	7,748.00	97.46	134.26	90.00	-7,180.03	2,101.75	6,009.25	5,779.89	229.36	26.200		
12,800.00	7,730.00	7,748.00	7,748.00	97.64	134.26	90.00	-7,180.03	2,101.75	5,917.63	5,687.83	229.80	25.752		
12,900.00	7,730.00	7,748.00	7,748.00	97.85	134.26	90.00	-7,180.03	2,101.75	5,826.28	5,596.04	230.24	25.305		
13,000.00	7,730.00	7,748.00	7,748.00	98.09	134.26	90.00	-7,180.03	2,101.75	5,735.22	5,504.52	230.71	24.859		
13,100.00	7,730.00	7,748.00	7,748.00	98.35	134.26	90.00	-7,180.03	2,101.75	5,644.47	5,413.28	231.19	24.415		
13,200.00	7,730.00	7,748.00	7,748.00	98.65	134.26	90.00	-7,180.03	2,101.75	5,554.03	5,322.34	231.69	23.972		
13,300.00	7,730.00	7,748.00	7,748.00	98.98	134.26	90.00	-7,180.03	2,101.75	5,463.93	5,231.72	232.20	23.531		
13,400.00	7,730.00	7,748.00	7,748.00	99.34	134.26	90.00	-7,180.03	2,101.75	5,374.17	5,141.43	232.74	23.091		
13,500.00	7,730.00	7,748.00	7,748.00	99.74	134.26	90.00	-7,180.03	2,101.75	5,284.79	5,051.49	233.29	22.653		
13,600.00	7,730.00	7,748.00	7,748.00	100.17	134.26	90.00	-7,180.03	2,101.75	5,195.79	4,961.92	233.87	22.217		
13,700.00	7,730.00	7,748.00	7,748.00	100.65	134.26	90.00	-7,180.03	2,101.75	5,107.19	4,872.73	234.47	21.782		
13,800.00	7,730.00	7,748.00	7,748.00	101.16	134.26	90.00	-7,180.03	2,101.75	5,019.03	4,783.94	235.09	21.350		
13,900.00	7,730.00	7,748.00	7,748.00	101.71	134.26	90.00	-7,180.03	2,101.75	4,931.32	4,695.59	235.73	20.920		
14,000.00	7,730.00	7,748.00	7,748.00	102.30	134.26	90.00	-7,180.03	2,101.75	4,844.08	4,607.69	236.39	20.491		
14,100.00	7,730.00	7,748.00	7,748.00	102.93	134.26	90.00	-7,180.03	2,101.75	4,757.35	4,520.26	237.09	20.066		
14,200.00	7,730.00	7,748.00	7,748.00	103.60	134.26	90.00	-7,180.03	2,101.75	4,671.14	4,433.34	237.80	19.643		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	7,748.00	7,748.00	104.32	134.26	90.00	-7,180.03	2,101.75	4,585.50	4,346.95	238.55	19.222		
14,400.00	7,730.00	7,748.00	7,748.00	105.07	134.26	90.00	-7,180.03	2,101.75	4,500.45	4,261.13	239.32	18.805		
14,500.00	7,730.00	7,748.00	7,748.00	105.86	134.26	90.00	-7,180.03	2,101.75	4,416.02	4,175.90	240.12	18.391		
14,600.00	7,730.00	7,748.00	7,748.00	106.70	134.26	90.00	-7,180.03	2,101.75	4,332.26	4,091.31	240.95	17.980		
14,700.00	7,730.00	7,748.00	7,748.00	107.57	134.26	90.00	-7,180.03	2,101.75	4,249.20	4,007.39	241.82	17.572		
14,800.00	7,730.00	7,748.00	7,748.00	108.48	134.26	90.00	-7,180.03	2,101.75	4,166.89	3,924.18	242.71	17.168		
14,900.00	7,730.00	7,748.00	7,748.00	109.43	134.26	90.00	-7,180.03	2,101.75	4,085.36	3,841.73	243.64	16.768		
15,000.00	7,730.00	7,748.00	7,748.00	110.42	134.26	90.00	-7,180.03	2,101.75	4,004.67	3,760.08	244.60	16.373		
15,100.00	7,730.00	7,748.00	7,748.00	111.43	134.26	90.00	-7,180.03	2,101.75	3,924.88	3,679.29	245.59	15.982		
15,200.00	7,730.00	7,748.00	7,748.00	112.49	134.26	90.00	-7,180.03	2,101.75	3,846.02	3,599.41	246.62	15.595		
15,300.00	7,730.00	7,748.00	7,748.00	113.57	134.26	90.00	-7,180.03	2,101.75	3,768.17	3,520.49	247.68	15.214		
15,400.00	7,730.00	7,748.00	7,748.00	114.68	134.26	90.00	-7,180.03	2,101.75	3,691.39	3,442.61	248.77	14.838		
15,500.00	7,730.00	7,748.00	7,748.00	115.82	134.26	90.00	-7,180.03	2,101.75	3,615.74	3,365.84	249.90	14.469		
15,600.00	7,730.00	7,748.00	7,748.00	116.99	134.26	90.00	-7,180.03	2,101.75	3,541.30	3,290.23	251.07	14.105		
15,700.00	7,730.00	7,748.00	7,748.00	118.19	134.26	90.00	-7,180.03	2,101.75	3,468.14	3,215.88	252.27	13.748		
15,800.00	7,730.00	7,748.00	7,748.00	119.41	134.26	90.00	-7,180.03	2,101.75	3,396.36	3,142.86	253.50	13.398		
15,900.00	7,730.00	7,748.00	7,748.00	120.65	134.26	90.00	-7,180.03	2,101.75	3,326.03	3,071.28	254.76	13.056		
16,000.00	7,730.00	7,748.00	7,748.00	121.91	134.26	90.00	-7,180.03	2,101.75	3,257.26	3,001.21	256.04	12.721		
16,100.00	7,730.00	7,748.00	7,748.00	123.20	134.26	90.00	-7,180.03	2,101.75	3,190.13	2,932.78	257.36	12.396		
16,200.00	7,730.00	7,748.00	7,748.00	124.50	134.26	90.00	-7,180.03	2,101.75	3,124.77	2,866.08	258.69	12.079		
16,300.00	7,730.00	7,748.00	7,748.00	125.82	134.26	90.00	-7,180.03	2,101.75	3,061.28	2,801.23	260.04	11.772		
16,400.00	7,730.00	7,748.00	7,748.00	127.16	134.26	90.00	-7,180.03	2,101.75	2,999.77	2,738.37	261.41	11.475		
16,500.00	7,730.00	7,748.00	7,748.00	128.52	134.26	90.00	-7,180.03	2,101.75	2,940.39	2,677.61	262.78	11.190		
16,600.00	7,730.00	7,748.00	7,748.00	129.89	134.26	90.00	-7,180.03	2,101.75	2,883.25	2,619.10	264.14	10.915		
16,700.00	7,730.00	7,748.00	7,748.00	131.27	134.26	90.00	-7,180.03	2,101.75	2,828.49	2,562.99	265.50	10.653		
16,800.00	7,730.00	7,748.00	7,748.00	132.67	134.26	90.00	-7,180.03	2,101.75	2,776.25	2,509.41	266.84	10.404		
16,900.00	7,730.00	7,748.00	7,748.00	134.09	134.26	90.00	-7,180.03	2,101.75	2,726.68	2,458.54	268.15	10.169		
17,000.00	7,730.00	7,748.00	7,748.00	135.51	134.26	90.00	-7,180.03	2,101.75	2,679.93	2,410.52	269.41	9.947		
17,100.00	7,730.00	7,748.00	7,748.00	136.95	134.26	90.00	-7,180.03	2,101.75	2,636.14	2,365.52	270.62	9.741		
17,200.00	7,730.00	7,748.00	7,748.00	138.40	134.26	90.00	-7,180.03	2,101.75	2,595.47	2,323.71	271.76	9.551		
17,300.00	7,730.00	7,748.00	7,748.00	139.85	134.26	90.00	-7,180.03	2,101.75	2,558.07	2,285.25	272.82	9.376		
17,400.00	7,730.00	7,748.00	7,748.00	141.32	134.26	90.00	-7,180.03	2,101.75	2,524.07	2,250.29	273.78	9.219		
17,500.00	7,730.00	7,748.00	7,748.00	142.80	134.26	90.00	-7,180.03	2,101.75	2,493.63	2,219.00	274.63	9.080		
17,600.00	7,730.00	7,748.00	7,748.00	144.28	134.26	90.00	-7,180.03	2,101.75	2,466.86	2,191.51	275.36	8.959		
17,700.00	7,730.00	7,748.00	7,748.00	145.78	134.26	90.00	-7,180.03	2,101.75	2,443.90	2,167.96	275.94	8.857		
17,800.00	7,730.00	7,748.00	7,748.00	147.28	134.26	90.00	-7,180.03	2,101.75	2,424.84	2,148.47	276.38	8.774		
17,900.00	7,730.00	7,748.00	7,748.00	148.79	134.26	90.00	-7,180.03	2,101.75	2,409.79	2,133.14	276.65	8.711		
18,000.00	7,730.00	7,748.00	7,748.00	150.31	134.26	90.00	-7,180.03	2,101.75	2,398.82	2,122.06	276.76	8.668		
18,100.00	7,730.00	7,748.00	7,748.00	151.83	134.26	90.00	-7,180.03	2,101.75	2,391.98	2,115.29	276.69	8.645		
18,200.00	7,730.00	7,748.00	7,748.00	153.37	134.26	90.00	-7,180.03	2,101.75	2,389.31	2,112.86	276.45	8.643 ES, SF		
18,213.85	7,730.00	7,748.00	7,748.00	153.58	134.26	90.00	-7,180.03	2,101.75	2,389.27	2,112.87	276.40	8.644 CC		
18,300.00	7,730.00	7,748.00	7,748.00	154.90	134.26	90.00	-7,180.03	2,101.75	2,390.82	2,114.80	276.03	8.662		
18,400.00	7,730.00	7,748.00	7,748.00	156.45	134.26	90.00	-7,180.03	2,101.75	2,396.51	2,121.08	275.43	8.701		
18,500.00	7,730.00	7,748.00	7,748.00	158.00	134.26	90.00	-7,180.03	2,101.75	2,406.34	2,131.67	274.68	8.761		
18,600.00	7,730.00	7,748.00	7,748.00	159.55	134.26	90.00	-7,180.03	2,101.75	2,420.27	2,146.51	273.76	8.841		
18,700.00	7,730.00	7,748.00	7,748.00	161.11	134.26	90.00	-7,180.03	2,101.75	2,438.23	2,165.52	272.70	8.941		
18,800.00	7,730.00	7,748.00	7,748.00	162.68	134.26	90.00	-7,180.03	2,101.75	2,460.12	2,188.60	271.51	9.061		
18,900.00	7,730.00	7,748.00	7,748.00	164.25	134.26	90.00	-7,180.03	2,101.75	2,485.84	2,215.63	270.21	9.200		
19,000.00	7,730.00	7,748.00	7,748.00	165.83	134.26	90.00	-7,180.03	2,101.75	2,515.28	2,246.48	268.80	9.357		
19,100.00	7,730.00	7,748.00	7,748.00	167.41	134.26	90.00	-7,180.03	2,101.75	2,548.31	2,280.99	267.31	9.533		
19,200.00	7,730.00	7,748.00	7,748.00	168.99	134.26	90.00	-7,180.03	2,101.75	2,584.78	2,319.03	265.76	9.726		
19,300.00	7,730.00	7,748.00	7,748.00	170.58	134.26	90.00	-7,180.03	2,101.75	2,624.56	2,360.42	264.14	9.936		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - ABND VERT CRANDELL E UNIT 1 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	7,730.00	7,748.00	7,748.00	172.17	134.26	90.00	-7,180.03	2,101.75	2,667.50	2,405.00	262.50	10.162	
19,430.54	7,730.00	7,748.00	7,748.00	172.66	134.26	90.00	-7,180.03	2,101.75	2,681.22	2,419.23	261.99	10.234	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	140.42	-6,863.27	5,674.42	8,905.30					
100.00	100.00	69.00	69.00	0.13	0.54	140.42	-6,863.27	5,674.42	8,905.25	8,904.57	0.68	N/A		
200.00	200.00	169.00	169.00	0.49	1.99	140.42	-6,863.27	5,674.42	8,905.25	8,902.77	2.48	3,587.102		
300.00	300.00	269.00	269.00	0.85	3.74	140.42	-6,863.27	5,674.42	8,905.25	8,900.66	4.59	1,941.675		
400.00	400.00	369.00	369.00	1.21	5.48	140.42	-6,863.27	5,674.42	8,905.25	8,898.56	6.69	1,331.093		
500.00	500.00	469.00	469.00	1.57	7.23	140.42	-6,863.27	5,674.42	8,905.25	8,896.46	8.79	1,012.653		
600.00	599.98	568.98	568.98	1.92	8.97	75.09	-6,863.27	5,674.42	8,904.80	8,893.91	10.89	817.490		
700.00	699.84	668.84	668.84	2.28	10.71	75.14	-6,863.27	5,674.42	8,903.45	8,890.47	12.99	685.444		
800.00	799.45	768.45	768.45	2.64	12.45	75.24	-6,863.27	5,674.42	8,901.22	8,886.13	15.09	589.881		
900.00	898.70	867.70	867.70	3.02	14.18	75.38	-6,863.27	5,674.42	8,898.11	8,880.91	17.20	517.426		
1,000.00	997.47	966.47	966.47	3.41	15.91	75.55	-6,863.27	5,674.42	8,894.13	8,874.82	19.31	460.510		
1,100.00	1,095.62	1,064.62	1,064.62	3.84	17.62	75.76	-6,863.27	5,674.42	8,889.32	8,867.88	21.44	414.537		
1,200.00	1,193.06	1,162.06	1,162.06	4.29	19.32	76.01	-6,863.27	5,674.42	8,883.70	8,860.11	23.59	376.561		
1,300.00	1,289.64	1,258.64	1,258.64	4.78	21.01	76.29	-6,863.27	5,674.42	8,877.30	8,851.54	25.76	344.611		
1,400.00	1,385.27	1,354.27	1,354.27	5.32	22.68	76.60	-6,863.27	5,674.42	8,870.15	8,842.20	27.95	317.318		
1,500.00	1,479.82	1,448.82	1,448.82	5.90	24.33	76.95	-6,863.27	5,674.42	8,862.30	8,832.12	30.17	293.703		
1,600.00	1,573.17	1,542.17	1,542.17	6.53	25.96	77.33	-6,863.27	5,674.42	8,853.79	8,821.36	32.43	273.049		
1,700.00	1,665.21	1,634.21	1,634.21	7.23	27.56	77.74	-6,863.27	5,674.42	8,844.66	8,809.95	34.71	254.818		
1,800.00	1,755.84	1,724.84	1,724.84	7.98	29.14	78.17	-6,863.27	5,674.42	8,834.97	8,797.94	37.03	238.599		
1,900.00	1,844.94	1,813.94	1,813.94	8.80	30.70	78.63	-6,863.27	5,674.42	8,824.78	8,785.40	39.38	224.073		
2,000.00	1,932.39	1,901.39	1,901.39	9.68	32.23	79.11	-6,863.27	5,674.42	8,814.14	8,772.37	41.78	210.986		
2,100.00	2,018.11	1,987.11	1,987.11	10.63	33.72	79.61	-6,863.27	5,674.42	8,803.12	8,758.91	44.21	199.137		
2,200.00	2,101.97	2,070.97	2,070.97	11.65	35.19	80.13	-6,863.27	5,674.42	8,791.78	8,745.10	46.68	188.360		
2,300.00	2,183.88	2,152.88	2,152.88	12.74	36.61	80.67	-6,863.27	5,674.42	8,780.18	8,731.00	49.18	178.522		
2,400.00	2,263.74	2,232.74	2,232.74	13.90	38.01	81.21	-6,863.27	5,674.42	8,768.40	8,716.67	51.73	169.510		
2,431.61	2,288.54	2,257.54	2,257.54	14.29	38.44	81.39	-6,863.27	5,674.42	8,764.65	8,712.11	52.54	166.822		
2,500.00	2,341.97	2,310.97	2,310.97	15.13	39.37	81.61	-6,863.27	5,674.42	8,756.62	8,702.32	54.30	161.250		
2,600.00	2,420.08	2,389.08	2,389.08	16.37	40.74	81.92	-6,863.27	5,674.42	8,745.25	8,688.34	56.90	153.685		
2,700.00	2,498.20	2,467.20	2,467.20	17.63	42.10	82.24	-6,863.27	5,674.42	8,734.30	8,674.79	59.52	146.748		
2,800.00	2,576.32	2,545.32	2,545.32	18.89	43.46	82.56	-6,863.27	5,674.42	8,723.80	8,661.65	62.15	140.374		
2,900.00	2,654.43	2,623.43	2,623.43	20.17	44.83	82.88	-6,863.27	5,674.42	8,713.72	8,648.94	64.79	134.500		
3,000.00	2,732.55	2,701.55	2,701.55	21.45	46.19	83.20	-6,863.27	5,674.42	8,704.08	8,636.65	67.43	129.076		
3,100.00	2,810.67	2,779.67	2,779.67	22.74	47.55	83.52	-6,863.27	5,674.42	8,694.88	8,624.79	70.09	124.053		
3,200.00	2,888.78	2,857.78	2,857.78	24.03	48.92	83.84	-6,863.27	5,674.42	8,686.12	8,613.37	72.75	119.393		
3,300.00	2,966.90	2,935.90	2,935.90	25.33	50.28	84.16	-6,863.27	5,674.42	8,677.80	8,602.38	75.42	115.058		
3,400.00	3,045.02	3,014.02	3,014.02	26.63	51.64	84.49	-6,863.27	5,674.42	8,669.92	8,591.83	78.09	111.019		
3,500.00	3,123.13	3,107.87	3,092.13	27.94	53.28	84.81	-6,863.27	5,674.42	8,662.48	8,581.44	81.05	106.883		
3,600.00	3,201.25	3,170.25	3,170.25	29.24	54.37	85.13	-6,863.27	5,674.42	8,655.49	8,572.04	83.45	103.717		
3,700.00	3,279.37	3,248.37	3,248.37	30.55	55.73	85.45	-6,863.27	5,674.42	8,648.94	8,562.81	86.14	100.409		
3,800.00	3,357.49	3,326.49	3,326.49	31.86	57.10	85.77	-6,863.27	5,674.42	8,642.84	8,554.02	88.82	97.303		
3,900.00	3,435.60	3,404.60	3,404.60	33.18	58.46	86.10	-6,863.27	5,674.42	8,637.19	8,545.67	91.51	94.382		
4,000.00	3,513.72	3,482.72	3,482.72	34.49	59.82	86.42	-6,863.27	5,674.42	8,631.98	8,537.78	94.20	91.630		
4,100.00	3,591.84	3,560.84	3,560.84	35.81	61.19	86.74	-6,863.27	5,674.42	8,627.22	8,530.33	96.90	89.035		
4,200.00	3,669.95	3,638.95	3,638.95	37.12	62.55	87.07	-6,863.27	5,674.42	8,622.91	8,523.32	99.59	86.583		
4,300.00	3,748.07	3,717.07	3,717.07	38.44	63.92	87.39	-6,863.27	5,674.42	8,619.05	8,516.77	102.29	84.265		
4,400.00	3,826.19	3,804.81	3,795.19	39.76	65.45	87.72	-6,863.27	5,674.42	8,615.65	8,510.50	105.15	81.938		
4,500.00	3,904.30	3,873.30	3,873.30	41.08	66.64	88.04	-6,863.27	5,674.42	8,612.69	8,505.01	107.68	79.987		
4,600.00	3,982.42	3,951.42	3,951.42	42.40	68.01	88.37	-6,863.27	5,674.42	8,610.18	8,499.81	110.37	78.011		
4,700.00	4,060.54	4,029.54	4,029.54	43.72	69.37	88.69	-6,863.27	5,674.42	8,608.13	8,495.07	113.07	76.134		
4,800.00	4,138.66	4,107.66	4,107.66	45.05	70.73	89.01	-6,863.27	5,674.42	8,606.53	8,490.77	115.76	74.348		
4,900.00	4,216.77	4,185.77	4,185.77	46.37	72.10	89.34	-6,863.27	5,674.42	8,605.38	8,486.93	118.45	72.648		
5,000.00	4,294.89	4,263.89	4,263.89	47.69	73.46	89.66	-6,863.27	5,674.42	8,604.69	8,483.54	121.15	71.028		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,342.01	4,342.01	49.02	74.82	89.99	-6,863.27	5,674.42	8,604.45	8,480.61	123.84	69.482		
5,103.47	4,375.72	4,344.72	4,344.72	49.06	74.87	90.00	-6,863.27	5,674.42	8,604.45	8,480.52	123.93	69.430		
5,200.00	4,451.12	4,420.12	4,420.12	50.34	76.19	90.31	-6,863.27	5,674.42	8,604.66	8,478.13	126.53	68.007		
5,300.00	4,529.24	4,501.76	4,498.24	51.67	77.61	90.64	-6,863.27	5,674.42	8,605.32	8,476.05	129.28	66.566		
5,400.00	4,607.36	4,576.36	4,576.36	52.99	78.91	90.96	-6,863.27	5,674.42	8,606.44	8,474.54	131.90	65.250		
5,500.00	4,685.47	4,654.47	4,654.47	54.32	80.28	91.29	-6,863.27	5,674.42	8,608.01	8,473.42	134.58	63.961		
5,600.00	4,763.59	4,732.59	4,732.59	55.64	81.64	91.61	-6,863.27	5,674.42	8,610.03	8,472.76	137.26	62.726		
5,700.00	4,841.71	4,810.71	4,810.71	56.97	83.00	91.94	-6,863.27	5,674.42	8,612.50	8,472.56	139.94	61.543		
5,800.00	4,919.83	4,888.83	4,888.83	58.30	84.37	92.26	-6,863.27	5,674.42	8,615.43	8,472.81	142.62	60.409		
5,900.00	4,997.94	4,966.94	4,966.94	59.62	85.73	92.58	-6,863.27	5,674.42	8,618.80	8,473.51	145.29	59.321		
6,000.00	5,076.06	5,045.06	5,045.06	60.95	87.09	92.91	-6,863.27	5,674.42	8,622.63	8,474.67	147.96	58.277		
6,100.00	5,154.18	5,042.00	5,042.00	62.28	87.04	92.90	-6,863.27	5,674.42	8,627.29	8,478.09	149.20	57.825		
6,200.00	5,232.29	5,042.00	5,042.00	63.61	87.04	92.90	-6,863.27	5,674.42	8,633.11	8,482.63	150.47	57.374		
6,300.00	5,310.41	5,042.00	5,042.00	64.93	87.04	92.90	-6,863.27	5,674.42	8,640.07	8,488.35	151.73	56.945		
6,400.00	5,388.53	5,042.00	5,042.00	66.26	87.04	92.90	-6,863.27	5,674.42	8,648.19	8,495.23	152.97	56.536		
6,500.00	5,466.64	5,042.00	5,042.00	67.59	87.04	92.90	-6,863.27	5,674.42	8,657.46	8,503.27	154.19	56.148		
6,600.00	5,544.76	5,042.00	5,042.00	68.92	87.04	92.90	-6,863.27	5,674.42	8,667.87	8,512.48	155.39	55.780		
6,700.00	5,622.88	5,042.00	5,042.00	70.25	87.04	92.90	-6,863.27	5,674.42	8,679.42	8,522.84	156.58	55.431		
6,800.00	5,701.00	5,042.00	5,042.00	71.58	87.04	92.90	-6,863.27	5,674.42	8,692.11	8,534.36	157.75	55.102		
6,900.00	5,779.11	5,042.00	5,042.00	72.91	87.04	92.90	-6,863.27	5,674.42	8,705.92	8,547.03	158.90	54.790		
7,000.00	5,857.23	5,042.00	5,042.00	74.23	87.04	92.90	-6,863.27	5,674.42	8,720.86	8,560.84	160.02	54.497		
7,100.00	5,935.35	5,042.00	5,042.00	75.56	87.04	92.90	-6,863.27	5,674.42	8,736.92	8,575.79	161.13	54.221		
7,200.00	6,013.46	5,042.00	5,042.00	76.89	87.04	92.90	-6,863.27	5,674.42	8,754.10	8,591.87	162.22	53.963		
7,300.00	6,091.58	5,042.00	5,042.00	78.22	87.04	92.90	-6,863.27	5,674.42	8,772.37	8,609.08	163.29	53.721		
7,400.00	6,169.70	5,042.00	5,042.00	79.55	87.04	92.90	-6,863.27	5,674.42	8,791.75	8,627.41	164.34	53.496		
7,500.00	6,247.81	5,042.00	5,042.00	80.88	87.04	92.90	-6,863.27	5,674.42	8,812.22	8,646.85	165.37	53.287		
7,600.00	6,325.93	5,042.00	5,042.00	82.21	87.04	92.90	-6,863.27	5,674.42	8,833.78	8,667.40	166.38	53.093		
7,700.00	6,404.05	5,042.00	5,042.00	83.54	87.04	92.90	-6,863.27	5,674.42	8,856.41	8,689.04	167.37	52.914		
7,800.00	6,482.17	5,042.00	5,042.00	84.87	87.04	92.90	-6,863.27	5,674.42	8,880.11	8,711.77	168.34	52.751		
7,900.00	6,560.28	5,042.00	5,042.00	86.20	87.04	92.90	-6,863.27	5,674.42	8,904.87	8,735.58	169.29	52.601		
8,000.00	6,638.40	5,042.00	5,042.00	87.53	87.04	92.90	-6,863.27	5,674.42	8,930.68	8,760.47	170.22	52.466		
8,100.00	6,716.52	5,042.00	5,042.00	88.86	87.04	92.90	-6,863.27	5,674.42	8,957.54	8,786.41	171.13	52.345		
8,200.00	6,794.63	5,042.00	5,042.00	90.20	87.04	92.90	-6,863.27	5,674.42	8,985.42	8,813.41	172.01	52.237		
8,300.00	6,872.75	5,042.00	5,042.00	91.53	87.04	92.90	-6,863.27	5,674.42	9,014.33	8,841.45	172.88	52.142		
8,400.00	6,950.87	5,042.00	5,042.00	92.86	87.04	92.90	-6,863.27	5,674.42	9,044.26	8,870.53	173.73	52.060		
8,500.00	7,028.98	5,042.00	5,042.00	94.19	87.04	92.90	-6,863.27	5,674.42	9,075.18	8,900.63	174.55	51.991		
8,600.00	7,107.10	5,042.00	5,042.00	95.52	87.04	92.90	-6,863.27	5,674.42	9,107.10	8,931.74	175.36	51.934		
8,647.91	7,144.53	5,042.00	5,042.00	96.16	87.04	92.90	-6,863.27	5,674.42	9,122.74	8,947.00	175.74	51.911		
8,650.00	7,146.16	5,042.00	5,042.00	96.18	87.04	92.67	-6,863.27	5,674.42	9,123.43	8,947.67	175.76	51.910		
8,700.00	7,185.66	5,042.00	5,042.00	96.84	87.04	86.93	-6,863.27	5,674.42	9,137.85	8,961.70	176.14	51.877		
8,750.00	7,225.78	5,042.00	5,042.00	97.47	87.04	80.62	-6,863.27	5,674.42	9,148.48	8,971.96	176.52	51.827		
8,800.00	7,266.21	5,042.00	5,042.00	98.08	87.04	73.96	-6,863.27	5,674.42	9,155.25	8,978.37	176.88	51.761		
8,850.00	7,306.63	5,042.00	5,042.00	98.64	87.04	67.19	-6,863.27	5,674.42	9,158.11	8,980.91	177.21	51.680		
8,900.00	7,346.75	5,042.00	5,042.00	99.17	87.04	60.55	-6,863.27	5,674.42	9,157.06	8,979.55	177.51	51.585		
8,950.00	7,386.25	5,042.00	5,042.00	99.64	87.04	54.23	-6,863.27	5,674.42	9,152.10	8,974.32	177.78	51.479		
9,000.00	7,424.84	5,042.00	5,042.00	100.06	87.04	48.38	-6,863.27	5,674.42	9,143.26	8,965.24	178.01	51.362		
9,050.00	7,462.22	5,042.00	5,042.00	100.42	87.04	43.02	-6,863.27	5,674.42	9,130.58	8,952.38	178.21	51.236		
9,100.00	7,498.11	5,042.00	5,042.00	100.74	87.04	38.16	-6,863.27	5,674.42	9,114.17	8,935.81	178.36	51.100		
9,150.00	7,532.24	5,042.00	5,042.00	100.99	87.04	33.74	-6,863.27	5,674.42	9,094.11	8,915.64	178.47	50.955		
9,200.00	7,564.34	5,042.00	5,042.00	101.19	87.04	29.69	-6,863.27	5,674.42	9,070.55	8,892.00	178.55	50.802		
9,250.00	7,594.17	5,042.00	5,042.00	101.34	87.04	25.91	-6,863.27	5,674.42	9,043.63	8,865.05	178.58	50.642		
9,300.00	7,621.50	5,042.00	5,042.00	101.45	87.04	22.30	-6,863.27	5,674.42	9,013.52	8,834.94	178.58	50.474		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,042.00	5,042.00	101.50	87.04	18.73	-6,863.27	5,674.42	8,980.43	8,801.89	178.54	50.298		
9,400.00	7,667.87	5,042.00	5,042.00	101.51	87.04	15.08	-6,863.27	5,674.42	8,944.58	8,766.10	178.48	50.116		
9,450.00	7,686.55	5,042.00	5,042.00	101.48	87.04	11.16	-6,863.27	5,674.42	8,906.21	8,727.82	178.39	49.927		
9,500.00	7,702.04	5,042.00	5,042.00	101.42	87.04	6.74	-6,863.27	5,674.42	8,865.57	8,687.30	178.27	49.731		
9,550.00	7,714.20	5,042.00	5,042.00	101.33	87.04	1.52	-6,863.27	5,674.42	8,822.95	8,644.82	178.14	49.529		
9,600.00	7,722.96	5,042.00	5,042.00	101.20	87.04	-4.94	-6,863.27	5,674.42	8,778.65	8,600.66	177.99	49.321		
9,650.00	7,728.24	5,042.00	5,042.00	101.06	87.04	-13.23	-6,863.27	5,674.42	8,732.99	8,555.15	177.84	49.107		
9,699.97	7,730.00	5,042.00	5,042.00	100.90	87.04	-23.99	-6,863.27	5,674.42	8,686.31	8,508.63	177.68	48.889		
9,800.00	7,730.00	5,042.00	5,042.00	100.56	87.04	-23.99	-6,863.27	5,674.42	8,592.12	8,414.77	177.35	48.448		
9,900.00	7,730.00	5,042.00	5,042.00	100.24	87.04	-23.99	-6,863.27	5,674.42	8,498.08	8,321.07	177.01	48.008		
10,000.00	7,730.00	5,042.00	5,042.00	99.93	87.04	-23.99	-6,863.27	5,674.42	8,404.19	8,227.52	176.67	47.570		
10,100.00	7,730.00	5,042.00	5,042.00	99.64	87.04	-23.99	-6,863.27	5,674.42	8,310.44	8,134.12	176.32	47.133		
10,200.00	7,730.00	5,042.00	5,042.00	99.36	87.04	-23.99	-6,863.27	5,674.42	8,216.84	8,040.88	175.96	46.697		
10,300.00	7,730.00	5,042.00	5,042.00	99.09	87.04	-23.99	-6,863.27	5,674.42	8,123.39	7,947.79	175.60	46.262		
10,400.00	7,730.00	5,042.00	5,042.00	98.84	87.04	-23.99	-6,863.27	5,674.42	8,030.10	7,854.88	175.22	45.828		
10,500.00	7,730.00	5,042.00	5,042.00	98.61	87.04	-23.99	-6,863.27	5,674.42	7,936.97	7,762.13	174.84	45.396		
10,600.00	7,730.00	5,042.00	5,042.00	98.39	87.04	-23.99	-6,863.27	5,674.42	7,844.01	7,669.56	174.45	44.965		
10,700.00	7,730.00	5,042.00	5,042.00	98.18	87.04	-23.99	-6,863.27	5,674.42	7,751.22	7,577.18	174.04	44.536		
10,800.00	7,730.00	5,042.00	5,042.00	97.99	87.04	-23.99	-6,863.27	5,674.42	7,658.62	7,484.99	173.63	44.108		
10,900.00	7,730.00	5,042.00	5,042.00	97.81	87.04	-23.99	-6,863.27	5,674.42	7,566.21	7,393.00	173.21	43.682		
11,000.00	7,730.00	5,042.00	5,042.00	97.64	87.04	-23.99	-6,863.27	5,674.42	7,473.99	7,301.21	172.78	43.257		
11,100.00	7,730.00	5,042.00	5,042.00	97.50	87.04	-23.99	-6,863.27	5,674.42	7,381.97	7,209.63	172.34	42.834		
11,200.00	7,730.00	5,042.00	5,042.00	97.36	87.04	-23.99	-6,863.27	5,674.42	7,290.16	7,118.28	171.89	42.413		
11,300.00	7,730.00	5,042.00	5,042.00	97.24	87.04	-23.99	-6,863.27	5,674.42	7,198.58	7,027.15	171.42	41.993		
11,400.00	7,730.00	5,042.00	5,042.00	97.14	87.04	-23.99	-6,863.27	5,674.42	7,107.21	6,936.27	170.95	41.576		
11,500.00	7,730.00	5,042.00	5,042.00	97.06	87.04	-23.99	-6,863.27	5,674.42	7,016.09	6,845.63	170.46	41.160		
11,600.00	7,730.00	5,042.00	5,042.00	96.98	87.04	-23.99	-6,863.27	5,674.42	6,925.21	6,755.25	169.96	40.746		
11,700.00	7,730.00	5,042.00	5,042.00	96.93	87.04	-23.99	-6,863.27	5,674.42	6,834.58	6,665.13	169.45	40.334		
11,800.00	7,730.00	5,042.00	5,042.00	96.90	87.04	-23.99	-6,863.27	5,674.42	6,744.22	6,575.30	168.93	39.924		
11,900.00	7,730.00	5,042.00	5,042.00	96.88	87.04	-23.99	-6,863.27	5,674.42	6,654.14	6,485.75	168.39	39.517		
12,000.00	7,730.00	5,042.00	5,042.00	96.88	87.04	-23.99	-6,863.27	5,674.42	6,564.34	6,396.50	167.84	39.112		
12,100.00	7,730.00	5,042.00	5,042.00	96.90	87.04	-23.99	-6,863.27	5,674.42	6,474.84	6,307.57	167.27	38.709		
12,200.00	7,730.00	5,042.00	5,042.00	96.94	87.04	-23.99	-6,863.27	5,674.42	6,385.65	6,218.96	166.69	38.308		
12,300.00	7,730.00	5,042.00	5,042.00	97.00	87.04	-23.99	-6,863.27	5,674.42	6,296.79	6,130.69	166.10	37.910		
12,400.00	7,730.00	5,042.00	5,042.00	97.08	87.04	-23.99	-6,863.27	5,674.42	6,208.26	6,042.77	165.49	37.514		
12,500.00	7,730.00	5,042.00	5,042.00	97.18	87.04	-23.99	-6,863.27	5,674.42	6,120.09	5,955.23	164.87	37.122		
12,600.00	7,730.00	5,042.00	5,042.00	97.31	87.04	-23.99	-6,863.27	5,674.42	6,032.29	5,868.07	164.23	36.732		
12,700.00	7,730.00	5,042.00	5,042.00	97.46	87.04	-23.99	-6,863.27	5,674.42	5,944.88	5,781.30	163.57	36.344		
12,800.00	7,730.00	5,042.00	5,042.00	97.64	87.04	-23.99	-6,863.27	5,674.42	5,857.86	5,694.96	162.90	35.960		
12,900.00	7,730.00	5,042.00	5,042.00	97.85	87.04	-23.99	-6,863.27	5,674.42	5,771.27	5,609.06	162.21	35.579		
13,000.00	7,730.00	5,042.00	5,042.00	98.09	87.04	-23.99	-6,863.27	5,674.42	5,685.12	5,523.61	161.51	35.200		
13,100.00	7,730.00	5,042.00	5,042.00	98.35	87.04	-23.99	-6,863.27	5,674.42	5,599.43	5,438.64	160.79	34.825		
13,200.00	7,730.00	5,042.00	5,042.00	98.65	87.04	-23.99	-6,863.27	5,674.42	5,514.21	5,354.17	160.05	34.454		
13,300.00	7,730.00	5,042.00	5,042.00	98.98	87.04	-23.99	-6,863.27	5,674.42	5,429.51	5,270.22	159.29	34.085		
13,400.00	7,730.00	5,042.00	5,042.00	99.34	87.04	-23.99	-6,863.27	5,674.42	5,345.33	5,186.81	158.52	33.720		
13,500.00	7,730.00	5,042.00	5,042.00	99.74	87.04	-23.99	-6,863.27	5,674.42	5,261.71	5,103.98	157.73	33.359		
13,600.00	7,730.00	5,042.00	5,042.00	100.17	87.04	-23.99	-6,863.27	5,674.42	5,178.67	5,021.74	156.93	33.001		
13,700.00	7,730.00	5,042.00	5,042.00	100.65	87.04	-23.99	-6,863.27	5,674.42	5,096.23	4,940.13	156.11	32.646		
13,800.00	7,730.00	5,042.00	5,042.00	101.16	87.04	-23.99	-6,863.27	5,674.42	5,014.44	4,859.17	155.27	32.295		
13,900.00	7,730.00	5,042.00	5,042.00	101.71	87.04	-23.99	-6,863.27	5,674.42	4,933.31	4,778.90	154.42	31.948		
14,000.00	7,730.00	5,042.00	5,042.00	102.30	87.04	-23.99	-6,863.27	5,674.42	4,852.90	4,699.35	153.55	31.605		
14,100.00	7,730.00	5,042.00	5,042.00	102.93	87.04	-23.99	-6,863.27	5,674.42	4,773.22	4,620.55	152.67	31.265		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,042.00	5,042.00	103.60	87.04	-23.99	-6,863.27	5,674.42	4,694.32	4,542.54	151.78	30.929		
14,300.00	7,730.00	5,042.00	5,042.00	104.32	87.04	-23.99	-6,863.27	5,674.42	4,616.23	4,465.36	150.87	30.597		
14,400.00	7,730.00	5,042.00	5,042.00	105.07	87.04	-23.99	-6,863.27	5,674.42	4,539.01	4,389.05	149.96	30.268		
14,500.00	7,730.00	5,042.00	5,042.00	105.86	87.04	-23.99	-6,863.27	5,674.42	4,462.69	4,313.65	149.04	29.942		
14,600.00	7,730.00	5,042.00	5,042.00	106.70	87.04	-23.99	-6,863.27	5,674.42	4,387.32	4,239.21	148.12	29.620		
14,700.00	7,730.00	5,042.00	5,042.00	107.57	87.04	-23.99	-6,863.27	5,674.42	4,312.96	4,165.77	147.19	29.302		
14,800.00	7,730.00	5,042.00	5,042.00	108.48	87.04	-23.99	-6,863.27	5,674.42	4,239.65	4,093.38	146.27	28.986		
14,900.00	7,730.00	5,042.00	5,042.00	109.43	87.04	-23.99	-6,863.27	5,674.42	4,167.45	4,022.10	145.34	28.673		
15,000.00	7,730.00	5,042.00	5,042.00	110.42	87.04	-23.99	-6,863.27	5,674.42	4,096.42	3,951.99	144.43	28.362		
15,100.00	7,730.00	5,042.00	5,042.00	111.43	87.04	-23.99	-6,863.27	5,674.42	4,026.62	3,883.09	143.53	28.054		
15,200.00	7,730.00	5,042.00	5,042.00	112.49	87.04	-23.99	-6,863.27	5,674.42	3,958.11	3,815.47	142.65	27.748		
15,300.00	7,730.00	5,042.00	5,042.00	113.57	87.04	-23.99	-6,863.27	5,674.42	3,890.97	3,749.19	141.78	27.443		
15,400.00	7,730.00	5,042.00	5,042.00	114.68	87.04	-23.99	-6,863.27	5,674.42	3,825.26	3,684.32	140.95	27.140		
15,500.00	7,730.00	5,042.00	5,042.00	115.82	87.04	-23.99	-6,863.27	5,674.42	3,761.07	3,620.92	140.15	26.837		
15,600.00	7,730.00	5,042.00	5,042.00	116.99	87.04	-23.99	-6,863.27	5,674.42	3,698.47	3,559.08	139.38	26.535		
15,700.00	7,730.00	5,042.00	5,042.00	118.19	87.04	-23.99	-6,863.27	5,674.42	3,637.53	3,498.87	138.67	26.232		
15,800.00	7,730.00	5,042.00	5,042.00	119.41	87.04	-23.99	-6,863.27	5,674.42	3,578.36	3,440.36	138.00	25.929		
15,900.00	7,730.00	5,042.00	5,042.00	120.65	87.04	-23.99	-6,863.27	5,674.42	3,521.03	3,383.63	137.40	25.626		
16,000.00	7,730.00	5,042.00	5,042.00	121.91	87.04	-23.99	-6,863.27	5,674.42	3,465.64	3,328.78	136.86	25.322		
16,100.00	7,730.00	5,042.00	5,042.00	123.20	87.04	-23.99	-6,863.27	5,674.42	3,412.28	3,275.88	136.40	25.016		
16,200.00	7,730.00	5,042.00	5,042.00	124.50	87.04	-23.99	-6,863.27	5,674.42	3,361.05	3,225.03	136.02	24.709		
16,300.00	7,730.00	5,042.00	5,042.00	125.82	87.04	-23.99	-6,863.27	5,674.42	3,312.05	3,176.32	135.73	24.401		
16,400.00	7,730.00	5,042.00	5,042.00	127.16	87.04	-23.99	-6,863.27	5,674.42	3,265.38	3,129.84	135.54	24.092		
16,500.00	7,730.00	5,042.00	5,042.00	128.52	87.04	-23.99	-6,863.27	5,674.42	3,221.13	3,085.68	135.45	23.781		
16,600.00	7,730.00	5,042.00	5,042.00	129.89	87.04	-23.99	-6,863.27	5,674.42	3,179.42	3,043.95	135.47	23.469		
16,700.00	7,730.00	5,042.00	5,042.00	131.27	87.04	-23.99	-6,863.27	5,674.42	3,140.33	3,004.72	135.61	23.157		
16,800.00	7,730.00	5,042.00	5,042.00	132.67	87.04	-23.99	-6,863.27	5,674.42	3,103.98	2,968.10	135.88	22.844		
16,900.00	7,730.00	5,042.00	5,042.00	134.09	87.04	-23.99	-6,863.27	5,674.42	3,070.46	2,934.18	136.28	22.531		
17,000.00	7,730.00	5,042.00	5,042.00	135.51	87.04	-23.99	-6,863.27	5,674.42	3,039.85	2,903.03	136.82	22.218		
17,100.00	7,730.00	5,042.00	5,042.00	136.95	87.04	-23.99	-6,863.27	5,674.42	3,012.26	2,874.75	137.51	21.906		
17,200.00	7,730.00	5,042.00	5,042.00	138.40	87.04	-23.99	-6,863.27	5,674.42	2,987.76	2,849.41	138.35	21.595		
17,300.00	7,730.00	5,042.00	5,042.00	139.85	87.04	-23.99	-6,863.27	5,674.42	2,966.43	2,827.07	139.36	21.285		
17,400.00	7,730.00	5,042.00	5,042.00	141.32	87.04	-23.99	-6,863.27	5,674.42	2,948.34	2,807.79	140.55	20.978		
17,500.00	7,730.00	5,042.00	5,042.00	142.80	87.04	-23.99	-6,863.27	5,674.42	2,933.55	2,791.65	141.91	20.672		
17,600.00	7,730.00	5,042.00	5,042.00	144.28	87.04	-23.99	-6,863.27	5,674.42	2,922.11	2,778.66	143.45	20.371		
17,700.00	7,730.00	5,042.00	5,042.00	145.78	87.04	-23.99	-6,863.27	5,674.42	2,914.06	2,768.89	145.17	20.074		
17,800.00	7,730.00	5,042.00	5,042.00	147.28	87.04	-23.99	-6,863.27	5,674.42	2,909.42	2,762.36	147.07	19.783		
17,884.98	7,730.00	5,042.00	5,042.00	148.56	87.04	-23.99	-6,863.27	5,674.42	2,908.18	2,759.36	148.82	19.542 CC		
17,900.00	7,730.00	5,042.00	5,042.00	148.79	87.04	-23.99	-6,863.27	5,674.42	2,908.22	2,759.08	149.14	19.500 ES		
18,000.00	7,730.00	5,042.00	5,042.00	150.31	87.04	-23.99	-6,863.27	5,674.42	2,910.45	2,759.09	151.37	19.228		
18,100.00	7,730.00	5,042.00	5,042.00	151.83	87.04	-23.99	-6,863.27	5,674.42	2,916.12	2,762.38	153.74	18.967		
18,200.00	7,730.00	5,042.00	5,042.00	153.37	87.04	-23.99	-6,863.27	5,674.42	2,925.19	2,768.95	156.24	18.722		
18,300.00	7,730.00	5,042.00	5,042.00	154.90	87.04	-23.99	-6,863.27	5,674.42	2,937.64	2,778.81	158.84	18.495		
18,400.00	7,730.00	5,042.00	5,042.00	156.45	87.04	-23.99	-6,863.27	5,674.42	2,953.43	2,791.92	161.51	18.287		
18,500.00	7,730.00	5,042.00	5,042.00	158.00	87.04	-23.99	-6,863.27	5,674.42	2,972.50	2,808.27	164.23	18.100		
18,600.00	7,730.00	5,042.00	5,042.00	159.55	87.04	-23.99	-6,863.27	5,674.42	2,994.79	2,827.82	166.97	17.936		
18,700.00	7,730.00	5,042.00	5,042.00	161.11	87.04	-23.99	-6,863.27	5,674.42	3,020.23	2,850.52	169.71	17.797		
18,800.00	7,730.00	5,042.00	5,042.00	162.68	87.04	-23.99	-6,863.27	5,674.42	3,048.73	2,876.31	172.42	17.682		
18,900.00	7,730.00	5,042.00	5,042.00	164.25	87.04	-23.99	-6,863.27	5,674.42	3,080.22	2,905.13	175.09	17.592		
19,000.00	7,730.00	5,042.00	5,042.00	165.83	87.04	-23.99	-6,863.27	5,674.42	3,114.61	2,936.91	177.70	17.528		
19,100.00	7,730.00	5,042.00	5,042.00	167.41	87.04	-23.99	-6,863.27	5,674.42	3,151.79	2,971.56	180.23	17.488		
19,200.00	7,730.00	5,042.00	5,042.00	168.99	87.04	-23.99	-6,863.27	5,674.42	3,191.67	3,009.00	182.67	17.472 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,042.00	5,042.00	170.58	87.04	-23.99	-6,863.27	5,674.42	3,234.16	3,049.14	185.02	17.480	
19,400.00	7,730.00	5,042.00	5,042.00	172.17	87.04	-23.99	-6,863.27	5,674.42	3,279.15	3,091.88	187.26	17.511	
19,430.54	7,730.00	5,042.00	5,042.00	172.66	87.04	-23.99	-6,863.27	5,674.42	3,293.36	3,105.43	187.93	17.524	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.27	-8,181.99	5,671.92	9,955.74					
100.00	100.00	67.00	67.00	0.13	0.55	145.27	-8,181.99	5,671.92	9,955.69	9,955.00	0.68	N/A		
200.00	200.00	167.00	167.00	0.49	1.99	145.27	-8,181.99	5,671.92	9,955.69	9,953.20	2.48	4,010.226		
300.00	300.00	267.00	267.00	0.85	3.74	145.27	-8,181.99	5,671.92	9,955.69	9,951.10	4.59	2,170.709		
400.00	400.00	367.00	367.00	1.21	5.48	145.27	-8,181.99	5,671.92	9,955.69	9,949.00	6.69	1,488.105		
500.00	500.00	467.00	467.00	1.57	7.23	145.27	-8,181.99	5,671.92	9,955.69	9,946.89	8.79	1,132.103		
600.00	599.98	566.98	566.98	1.92	8.97	79.93	-8,181.99	5,671.92	9,955.38	9,944.49	10.89	913.934		
700.00	699.84	666.84	666.84	2.28	10.71	79.98	-8,181.99	5,671.92	9,954.47	9,941.48	12.99	766.348		
800.00	799.45	766.45	766.45	2.64	12.45	80.06	-8,181.99	5,671.92	9,952.95	9,937.86	15.09	659.554		
900.00	898.70	865.70	865.70	3.02	14.18	80.17	-8,181.99	5,671.92	9,950.84	9,933.65	17.20	578.593		
1,000.00	997.47	964.47	964.47	3.41	15.91	80.31	-8,181.99	5,671.92	9,948.16	9,928.84	19.32	515.003		
1,100.00	1,095.62	1,062.62	1,062.62	3.84	17.62	80.48	-8,181.99	5,671.92	9,944.92	9,923.47	21.45	463.645		
1,200.00	1,193.06	1,160.06	1,160.06	4.29	19.32	80.68	-8,181.99	5,671.92	9,941.14	9,917.54	23.60	421.227		
1,300.00	1,289.64	1,256.64	1,256.64	4.78	21.01	80.91	-8,181.99	5,671.92	9,936.86	9,911.09	25.77	385.546		
1,400.00	1,385.27	1,352.27	1,352.27	5.32	22.68	81.16	-8,181.99	5,671.92	9,932.10	9,904.13	27.97	355.071		
1,500.00	1,479.82	1,446.82	1,446.82	5.90	24.33	81.44	-8,181.99	5,671.92	9,926.90	9,896.70	30.20	328.711		
1,600.00	1,573.17	1,540.17	1,540.17	6.53	25.96	81.74	-8,181.99	5,671.92	9,921.30	9,888.84	32.46	305.663		
1,700.00	1,665.21	1,632.21	1,632.21	7.23	27.56	82.07	-8,181.99	5,671.92	9,915.33	9,880.58	34.75	285.327		
1,800.00	1,755.84	1,722.84	1,722.84	7.98	29.14	82.41	-8,181.99	5,671.92	9,909.05	9,871.97	37.08	267.243		
1,900.00	1,844.94	1,811.94	1,811.94	8.80	30.70	82.77	-8,181.99	5,671.92	9,902.49	9,863.05	39.44	251.054		
2,000.00	1,932.39	1,900.61	1,899.39	9.68	32.25	83.15	-8,181.99	5,671.92	9,895.72	9,853.85	41.87	236.358		
2,100.00	2,018.11	1,985.11	1,985.11	10.63	33.72	83.55	-8,181.99	5,671.92	9,888.78	9,844.49	44.29	223.287		
2,200.00	2,101.97	2,068.97	2,068.97	11.65	35.19	83.95	-8,181.99	5,671.92	9,881.73	9,834.96	46.77	211.298		
2,300.00	2,183.88	2,150.88	2,150.88	12.74	36.61	84.36	-8,181.99	5,671.92	9,874.62	9,825.33	49.28	200.360		
2,400.00	2,263.74	2,230.74	2,230.74	13.90	38.01	84.78	-8,181.99	5,671.92	9,867.51	9,815.67	51.84	190.347		
2,431.61	2,288.54	2,255.54	2,255.54	14.29	38.44	84.92	-8,181.99	5,671.92	9,865.28	9,812.62	52.65	187.361		
2,500.00	2,341.97	2,308.97	2,308.97	15.13	39.37	85.11	-8,181.99	5,671.92	9,860.54	9,806.11	54.43	181.174		
2,600.00	2,420.08	2,387.08	2,387.08	16.37	40.74	85.39	-8,181.99	5,671.92	9,853.94	9,796.91	57.03	172.777		
2,700.00	2,498.20	2,465.20	2,465.20	17.63	42.10	85.68	-8,181.99	5,671.92	9,847.73	9,788.08	59.65	165.080		
2,800.00	2,576.32	2,543.32	2,543.32	18.89	43.46	85.96	-8,181.99	5,671.92	9,841.91	9,779.63	62.29	158.009		
2,900.00	2,654.43	2,621.43	2,621.43	20.17	44.83	86.25	-8,181.99	5,671.92	9,836.49	9,771.56	64.93	151.494		
3,000.00	2,732.55	2,700.45	2,699.55	21.45	46.21	86.53	-8,181.99	5,671.92	9,831.46	9,763.87	67.60	145.445		
3,100.00	2,810.67	2,777.67	2,777.67	22.74	47.55	86.81	-8,181.99	5,671.92	9,826.83	9,756.59	70.24	139.909		
3,200.00	2,888.78	2,855.78	2,855.78	24.03	48.92	87.10	-8,181.99	5,671.92	9,822.59	9,749.69	72.90	134.742		
3,300.00	2,966.90	2,933.90	2,933.90	25.33	50.28	87.38	-8,181.99	5,671.92	9,818.74	9,743.18	75.57	129.936		
3,400.00	3,045.02	3,012.02	3,012.02	26.63	51.64	87.67	-8,181.99	5,671.92	9,815.29	9,737.05	78.24	125.457		
3,500.00	3,123.13	3,109.87	3,090.13	27.94	53.35	87.95	-8,181.99	5,671.92	9,812.24	9,730.98	81.25	120.759		
3,600.00	3,201.25	3,168.25	3,168.25	29.24	54.37	88.24	-8,181.99	5,671.92	9,809.58	9,725.99	83.59	117.359		
3,700.00	3,279.37	3,246.37	3,246.37	30.55	55.73	88.52	-8,181.99	5,671.92	9,807.32	9,721.05	86.26	113.689		
3,800.00	3,357.49	3,324.49	3,324.49	31.86	57.10	88.81	-8,181.99	5,671.92	9,805.46	9,716.51	88.94	110.242		
3,900.00	3,435.60	3,402.60	3,402.60	33.18	58.46	89.09	-8,181.99	5,671.92	9,803.99	9,712.36	91.63	107.000		
4,000.00	3,513.72	3,480.72	3,480.72	34.49	59.82	89.38	-8,181.99	5,671.92	9,802.92	9,708.61	94.31	103.946		
4,100.00	3,591.84	3,558.84	3,558.84	35.81	61.19	89.66	-8,181.99	5,671.92	9,802.25	9,705.26	96.99	101.064		
4,200.00	3,669.95	3,636.95	3,636.95	37.12	62.55	89.95	-8,181.99	5,671.92	9,801.97	9,702.30	99.67	98.341		
4,218.90	3,684.71	3,651.71	3,651.71	37.37	62.81	90.00	-8,181.99	5,671.92	9,801.97	9,701.79	100.18	97.843		
4,300.00	3,748.07	3,715.07	3,715.07	38.44	63.92	90.23	-8,181.99	5,671.92	9,802.10	9,699.74	102.36	95.764		
4,400.00	3,826.19	3,806.81	3,793.19	39.76	65.52	90.52	-8,181.99	5,671.92	9,802.62	9,697.34	105.28	93.113		
4,500.00	3,904.30	3,871.30	3,871.30	41.08	66.64	90.80	-8,181.99	5,671.92	9,803.54	9,695.82	107.72	91.008		
4,600.00	3,982.42	3,949.42	3,949.42	42.40	68.01	91.09	-8,181.99	5,671.92	9,804.86	9,694.45	110.40	88.810		
4,700.00	4,060.54	4,027.54	4,027.54	43.72	69.37	91.37	-8,181.99	5,671.92	9,806.57	9,693.49	113.08	86.720		
4,800.00	4,138.66	4,105.66	4,105.66	45.05	70.73	91.66	-8,181.99	5,671.92	9,808.68	9,692.92	115.76	84.731		
4,900.00	4,216.77	4,183.77	4,183.77	46.37	72.10	91.94	-8,181.99	5,671.92	9,811.19	9,692.75	118.44	82.836		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,261.89	4,261.89	47.69	73.46	92.23	-8,181.99	5,671.92	9,814.09	9,692.97	121.12	81.029		
5,100.00	4,373.01	4,340.01	4,340.01	49.02	74.82	92.51	-8,181.99	5,671.92	9,817.39	9,693.60	123.79	79.305		
5,200.00	4,451.12	4,418.12	4,418.12	50.34	76.19	92.79	-8,181.99	5,671.92	9,821.09	9,694.62	126.47	77.658		
5,300.00	4,529.24	4,503.76	4,496.24	51.67	77.68	93.08	-8,181.99	5,671.92	9,825.18	9,695.91	129.27	76.006		
5,400.00	4,607.36	4,574.36	4,574.36	52.99	78.91	93.36	-8,181.99	5,671.92	9,829.66	9,697.86	131.81	74.577		
5,500.00	4,685.47	4,652.47	4,652.47	54.32	80.28	93.65	-8,181.99	5,671.92	9,834.55	9,700.07	134.47	73.135		
5,600.00	4,763.59	4,730.59	4,730.59	55.64	81.64	93.93	-8,181.99	5,671.92	9,839.82	9,702.68	137.14	71.753		
5,700.00	4,841.71	4,808.71	4,808.71	56.97	83.00	94.21	-8,181.99	5,671.92	9,845.49	9,705.69	139.80	70.427		
5,800.00	4,919.83	4,886.83	4,886.83	58.30	84.37	94.50	-8,181.99	5,671.92	9,851.55	9,709.09	142.45	69.156		
5,900.00	4,997.94	4,964.94	4,964.94	59.62	85.73	94.78	-8,181.99	5,671.92	9,858.00	9,712.89	145.11	67.935		
6,000.00	5,076.06	5,020.00	5,020.00	60.95	86.69	94.98	-8,181.99	5,671.92	9,864.87	9,717.51	147.36	66.945		
6,100.00	5,154.18	5,020.00	5,020.00	62.28	86.69	94.98	-8,181.99	5,671.92	9,872.59	9,723.96	148.63	66.425		
6,200.00	5,232.29	5,020.00	5,020.00	63.61	86.69	94.98	-8,181.99	5,671.92	9,881.32	9,731.44	149.88	65.926		
6,300.00	5,310.41	5,020.00	5,020.00	64.93	86.69	94.98	-8,181.99	5,671.92	9,891.05	9,739.92	151.13	65.448		
6,400.00	5,388.53	5,020.00	5,020.00	66.26	86.69	94.98	-8,181.99	5,671.92	9,901.79	9,749.43	152.36	64.990		
6,500.00	5,466.64	5,020.00	5,020.00	67.59	86.69	94.98	-8,181.99	5,671.92	9,913.52	9,759.94	153.57	64.552		
6,600.00	5,544.76	5,020.00	5,020.00	68.92	86.69	94.98	-8,181.99	5,671.92	9,926.24	9,771.47	154.78	64.133		
6,700.00	5,622.88	5,020.00	5,020.00	70.25	86.69	94.98	-8,181.99	5,671.92	9,939.96	9,783.99	155.96	63.733		
6,800.00	5,701.00	5,020.00	5,020.00	71.58	86.69	94.98	-8,181.99	5,671.92	9,954.66	9,797.52	157.13	63.351		
6,900.00	5,779.11	5,020.00	5,020.00	72.91	86.69	94.98	-8,181.99	5,671.92	9,970.34	9,812.05	158.29	62.988		
7,000.00	5,857.23	5,020.00	5,020.00	74.23	86.69	94.98	-8,181.99	5,671.92	9,987.00	9,827.56	159.43	62.641		
9,650.00	7,728.24	5,020.00	5,020.00	101.06	86.69	-11.72	-8,181.99	5,671.92	9,991.73	9,812.59	179.13	55.778		
9,699.97	7,730.00	5,020.00	5,020.00	100.90	86.69	-23.86	-8,181.99	5,671.92	9,944.34	9,765.33	179.01	55.552		
9,800.00	7,730.00	5,020.00	5,020.00	100.56	86.69	-23.86	-8,181.99	5,671.92	9,848.79	9,670.03	178.76	55.096		
9,900.00	7,730.00	5,020.00	5,020.00	100.24	86.69	-23.86	-8,181.99	5,671.92	9,753.35	9,574.86	178.50	54.642		
10,000.00	7,730.00	5,020.00	5,020.00	99.93	86.69	-23.86	-8,181.99	5,671.92	9,658.01	9,479.78	178.23	54.188		
10,100.00	7,730.00	5,020.00	5,020.00	99.64	86.69	-23.86	-8,181.99	5,671.92	9,562.76	9,384.80	177.96	53.735		
10,200.00	7,730.00	5,020.00	5,020.00	99.36	86.69	-23.86	-8,181.99	5,671.92	9,467.61	9,289.92	177.69	53.282		
10,300.00	7,730.00	5,020.00	5,020.00	99.09	86.69	-23.86	-8,181.99	5,671.92	9,372.56	9,195.15	177.41	52.831		
10,400.00	7,730.00	5,020.00	5,020.00	98.84	86.69	-23.86	-8,181.99	5,671.92	9,277.62	9,100.49	177.12	52.380		
10,500.00	7,730.00	5,020.00	5,020.00	98.61	86.69	-23.86	-8,181.99	5,671.92	9,182.78	9,005.95	176.83	51.929		
10,600.00	7,730.00	5,020.00	5,020.00	98.39	86.69	-23.86	-8,181.99	5,671.92	9,088.05	8,911.52	176.54	51.480		
10,700.00	7,730.00	5,020.00	5,020.00	98.18	86.69	-23.86	-8,181.99	5,671.92	8,993.44	8,817.20	176.23	51.031		
10,800.00	7,730.00	5,020.00	5,020.00	97.99	86.69	-23.86	-8,181.99	5,671.92	8,898.94	8,723.02	175.93	50.584		
10,900.00	7,730.00	5,020.00	5,020.00	97.81	86.69	-23.86	-8,181.99	5,671.92	8,804.57	8,628.96	175.61	50.137		
11,000.00	7,730.00	5,020.00	5,020.00	97.64	86.69	-23.86	-8,181.99	5,671.92	8,710.32	8,535.03	175.29	49.691		
11,100.00	7,730.00	5,020.00	5,020.00	97.50	86.69	-23.86	-8,181.99	5,671.92	8,616.20	8,441.24	174.96	49.246		
11,200.00	7,730.00	5,020.00	5,020.00	97.36	86.69	-23.86	-8,181.99	5,671.92	8,522.22	8,347.59	174.63	48.801		
11,300.00	7,730.00	5,020.00	5,020.00	97.24	86.69	-23.86	-8,181.99	5,671.92	8,428.37	8,254.08	174.29	48.358		
11,400.00	7,730.00	5,020.00	5,020.00	97.14	86.69	-23.86	-8,181.99	5,671.92	8,334.67	8,160.73	173.94	47.916		
11,500.00	7,730.00	5,020.00	5,020.00	97.06	86.69	-23.86	-8,181.99	5,671.92	8,241.12	8,067.53	173.59	47.475		
11,600.00	7,730.00	5,020.00	5,020.00	96.98	86.69	-23.86	-8,181.99	5,671.92	8,147.71	7,974.49	173.23	47.035		
11,700.00	7,730.00	5,020.00	5,020.00	96.93	86.69	-23.86	-8,181.99	5,671.92	8,054.47	7,881.61	172.86	46.596		
11,800.00	7,730.00	5,020.00	5,020.00	96.90	86.69	-23.86	-8,181.99	5,671.92	7,961.39	7,788.91	172.48	46.158		
11,900.00	7,730.00	5,020.00	5,020.00	96.88	86.69	-23.86	-8,181.99	5,671.92	7,868.48	7,696.39	172.10	45.722		
12,000.00	7,730.00	5,020.00	5,020.00	96.88	86.69	-23.86	-8,181.99	5,671.92	7,775.75	7,604.05	171.70	45.286		
12,100.00	7,730.00	5,020.00	5,020.00	96.90	86.69	-23.86	-8,181.99	5,671.92	7,683.20	7,511.90	171.30	44.852		
12,200.00	7,730.00	5,020.00	5,020.00	96.94	86.69	-23.86	-8,181.99	5,671.92	7,590.84	7,419.95	170.89	44.419		
12,300.00	7,730.00	5,020.00	5,020.00	97.00	86.69	-23.86	-8,181.99	5,671.92	7,498.67	7,328.20	170.47	43.988		
12,400.00	7,730.00	5,020.00	5,020.00	97.08	86.69	-23.86	-8,181.99	5,671.92	7,406.71	7,236.66	170.04	43.558		
12,500.00	7,730.00	5,020.00	5,020.00	97.18	86.69	-23.86	-8,181.99	5,671.92	7,314.96	7,145.35	169.61	43.129		
12,600.00	7,730.00	5,020.00	5,020.00	97.31	86.69	-23.86	-8,181.99	5,671.92	7,223.42	7,054.26	169.16	42.701		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,700.00	7,730.00	5,020.00	5,020.00	97.46	86.69	-23.86	-8,181.99	5,671.92	7,132.12	6,963.41	168.70	42.276		
12,800.00	7,730.00	5,020.00	5,020.00	97.64	86.69	-23.86	-8,181.99	5,671.92	7,041.05	6,872.81	168.24	41.851		
12,900.00	7,730.00	5,020.00	5,020.00	97.85	86.69	-23.86	-8,181.99	5,671.92	6,950.22	6,782.46	167.76	41.429		
13,000.00	7,730.00	5,020.00	5,020.00	98.09	86.69	-23.86	-8,181.99	5,671.92	6,859.65	6,692.38	167.28	41.008		
13,100.00	7,730.00	5,020.00	5,020.00	98.35	86.69	-23.86	-8,181.99	5,671.92	6,769.35	6,602.57	166.78	40.588		
13,200.00	7,730.00	5,020.00	5,020.00	98.65	86.69	-23.86	-8,181.99	5,671.92	6,679.32	6,513.05	166.27	40.170		
13,300.00	7,730.00	5,020.00	5,020.00	98.98	86.69	-23.86	-8,181.99	5,671.92	6,589.59	6,423.83	165.76	39.754		
13,400.00	7,730.00	5,020.00	5,020.00	99.34	86.69	-23.86	-8,181.99	5,671.92	6,500.15	6,334.92	165.23	39.340		
13,500.00	7,730.00	5,020.00	5,020.00	99.74	86.69	-23.86	-8,181.99	5,671.92	6,411.02	6,246.33	164.69	38.928		
13,600.00	7,730.00	5,020.00	5,020.00	100.17	86.69	-23.86	-8,181.99	5,671.92	6,322.22	6,158.07	164.14	38.517		
13,700.00	7,730.00	5,020.00	5,020.00	100.65	86.69	-23.86	-8,181.99	5,671.92	6,233.75	6,070.17	163.58	38.108		
13,800.00	7,730.00	5,020.00	5,020.00	101.16	86.69	-23.86	-8,181.99	5,671.92	6,145.64	5,982.64	163.01	37.702		
13,900.00	7,730.00	5,020.00	5,020.00	101.71	86.69	-23.86	-8,181.99	5,671.92	6,057.90	5,895.48	162.42	37.297		
14,000.00	7,730.00	5,020.00	5,020.00	102.30	86.69	-23.86	-8,181.99	5,671.92	5,970.55	5,808.72	161.83	36.894		
14,100.00	7,730.00	5,020.00	5,020.00	102.93	86.69	-23.86	-8,181.99	5,671.92	5,883.60	5,722.37	161.22	36.493		
14,200.00	7,730.00	5,020.00	5,020.00	103.60	86.69	-23.86	-8,181.99	5,671.92	5,797.06	5,636.46	160.61	36.094		
14,300.00	7,730.00	5,020.00	5,020.00	104.32	86.69	-23.86	-8,181.99	5,671.92	5,710.97	5,550.99	159.98	35.698		
14,400.00	7,730.00	5,020.00	5,020.00	105.07	86.69	-23.86	-8,181.99	5,671.92	5,625.34	5,466.00	159.35	35.303		
14,500.00	7,730.00	5,020.00	5,020.00	105.86	86.69	-23.86	-8,181.99	5,671.92	5,540.19	5,381.49	158.70	34.910		
14,600.00	7,730.00	5,020.00	5,020.00	106.70	86.69	-23.86	-8,181.99	5,671.92	5,455.55	5,297.50	158.04	34.520		
14,700.00	7,730.00	5,020.00	5,020.00	107.57	86.69	-23.86	-8,181.99	5,671.92	5,371.43	5,214.05	157.38	34.131		
14,800.00	7,730.00	5,020.00	5,020.00	108.48	86.69	-23.86	-8,181.99	5,671.92	5,287.86	5,131.16	156.70	33.744		
14,900.00	7,730.00	5,020.00	5,020.00	109.43	86.69	-23.86	-8,181.99	5,671.92	5,204.88	5,048.86	156.02	33.360		
15,000.00	7,730.00	5,020.00	5,020.00	110.42	86.69	-23.86	-8,181.99	5,671.92	5,122.50	4,967.17	155.34	32.977		
15,100.00	7,730.00	5,020.00	5,020.00	111.43	86.69	-23.86	-8,181.99	5,671.92	5,040.76	4,886.12	154.64	32.596		
15,200.00	7,730.00	5,020.00	5,020.00	112.49	86.69	-23.86	-8,181.99	5,671.92	4,959.69	4,805.75	153.95	32.217		
15,300.00	7,730.00	5,020.00	5,020.00	113.57	86.69	-23.86	-8,181.99	5,671.92	4,879.32	4,726.08	153.25	31.840		
15,400.00	7,730.00	5,020.00	5,020.00	114.68	86.69	-23.86	-8,181.99	5,671.92	4,799.69	4,647.15	152.54	31.464		
15,500.00	7,730.00	5,020.00	5,020.00	115.82	86.69	-23.86	-8,181.99	5,671.92	4,720.84	4,568.99	151.84	31.090		
15,600.00	7,730.00	5,020.00	5,020.00	116.99	86.69	-23.86	-8,181.99	5,671.92	4,642.80	4,491.65	151.15	30.717		
15,700.00	7,730.00	5,020.00	5,020.00	118.19	86.69	-23.86	-8,181.99	5,671.92	4,565.61	4,415.16	150.45	30.345		
15,800.00	7,730.00	5,020.00	5,020.00	119.41	86.69	-23.86	-8,181.99	5,671.92	4,489.33	4,339.56	149.77	29.975		
15,900.00	7,730.00	5,020.00	5,020.00	120.65	86.69	-23.86	-8,181.99	5,671.92	4,413.99	4,264.90	149.10	29.605		
16,000.00	7,730.00	5,020.00	5,020.00	121.91	86.69	-23.86	-8,181.99	5,671.92	4,339.65	4,191.22	148.44	29.236		
16,100.00	7,730.00	5,020.00	5,020.00	123.20	86.69	-23.86	-8,181.99	5,671.92	4,266.36	4,118.57	147.79	28.867		
16,200.00	7,730.00	5,020.00	5,020.00	124.50	86.69	-23.86	-8,181.99	5,671.92	4,194.18	4,047.01	147.17	28.499		
16,300.00	7,730.00	5,020.00	5,020.00	125.82	86.69	-23.86	-8,181.99	5,671.92	4,123.15	3,976.58	146.57	28.130		
16,400.00	7,730.00	5,020.00	5,020.00	127.16	86.69	-23.86	-8,181.99	5,671.92	4,053.35	3,907.34	146.00	27.762		
16,500.00	7,730.00	5,020.00	5,020.00	128.52	86.69	-23.86	-8,181.99	5,671.92	3,984.83	3,839.36	145.47	27.393		
16,600.00	7,730.00	5,020.00	5,020.00	129.89	86.69	-23.86	-8,181.99	5,671.92	3,917.67	3,772.70	144.97	27.024		
16,700.00	7,730.00	5,020.00	5,020.00	131.27	86.69	-23.86	-8,181.99	5,671.92	3,851.94	3,707.42	144.52	26.654		
16,800.00	7,730.00	5,020.00	5,020.00	132.67	86.69	-23.86	-8,181.99	5,671.92	3,787.70	3,643.59	144.11	26.283		
16,900.00	7,730.00	5,020.00	5,020.00	134.09	86.69	-23.86	-8,181.99	5,671.92	3,725.04	3,581.29	143.75	25.912		
17,000.00	7,730.00	5,020.00	5,020.00	135.51	86.69	-23.86	-8,181.99	5,671.92	3,664.04	3,520.58	143.46	25.541		
17,100.00	7,730.00	5,020.00	5,020.00	136.95	86.69	-23.86	-8,181.99	5,671.92	3,604.78	3,461.56	143.22	25.169		
17,200.00	7,730.00	5,020.00	5,020.00	138.40	86.69	-23.86	-8,181.99	5,671.92	3,547.35	3,404.30	143.05	24.797		
17,300.00	7,730.00	5,020.00	5,020.00	139.85	86.69	-23.86	-8,181.99	5,671.92	3,491.84	3,348.88	142.96	24.425		
17,400.00	7,730.00	5,020.00	5,020.00	141.32	86.69	-23.86	-8,181.99	5,671.92	3,438.34	3,295.40	142.94	24.054		
17,500.00	7,730.00	5,020.00	5,020.00	142.80	86.69	-23.86	-8,181.99	5,671.92	3,386.96	3,243.95	143.00	23.684		
17,600.00	7,730.00	5,020.00	5,020.00	144.28	86.69	-23.86	-8,181.99	5,671.92	3,337.77	3,194.62	143.15	23.316		
17,700.00	7,730.00	5,020.00	5,020.00	145.78	86.69	-23.86	-8,181.99	5,671.92	3,290.89	3,147.51	143.39	22.951		
17,800.00	7,730.00	5,020.00	5,020.00	147.28	86.69	-23.86	-8,181.99	5,671.92	3,246.42	3,102.70	143.72	22.588		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT GOLTL 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,900.00	7,730.00	5,020.00	5,020.00	148.79	86.69	-23.86	-8,181.99	5,671.92	3,204.45	3,060.30	144.15	22.230	
18,000.00	7,730.00	5,020.00	5,020.00	150.31	86.69	-23.86	-8,181.99	5,671.92	3,165.09	3,020.40	144.69	21.876	
18,100.00	7,730.00	5,020.00	5,020.00	151.83	86.69	-23.86	-8,181.99	5,671.92	3,128.42	2,983.10	145.33	21.527	
18,200.00	7,730.00	5,020.00	5,020.00	153.37	86.69	-23.86	-8,181.99	5,671.92	3,094.56	2,948.48	146.08	21.184	
18,300.00	7,730.00	5,020.00	5,020.00	154.90	86.69	-23.86	-8,181.99	5,671.92	3,063.58	2,916.63	146.95	20.848	
18,400.00	7,730.00	5,020.00	5,020.00	156.45	86.69	-23.86	-8,181.99	5,671.92	3,035.59	2,887.65	147.94	20.519	
18,500.00	7,730.00	5,020.00	5,020.00	158.00	86.69	-23.86	-8,181.99	5,671.92	3,010.66	2,861.60	149.06	20.197	
18,600.00	7,730.00	5,020.00	5,020.00	159.55	86.69	-23.86	-8,181.99	5,671.92	2,988.86	2,838.55	150.32	19.884	
18,700.00	7,730.00	5,020.00	5,020.00	161.11	86.69	-23.86	-8,181.99	5,671.92	2,970.28	2,818.57	151.71	19.578	
18,800.00	7,730.00	5,020.00	5,020.00	162.68	86.69	-23.86	-8,181.99	5,671.92	2,954.97	2,801.71	153.26	19.281	
18,900.00	7,730.00	5,020.00	5,020.00	164.25	86.69	-23.86	-8,181.99	5,671.92	2,942.97	2,788.02	154.95	18.993	
19,000.00	7,730.00	5,020.00	5,020.00	165.83	86.69	-23.86	-8,181.99	5,671.92	2,934.34	2,777.55	156.79	18.715	
19,100.00	7,730.00	5,020.00	5,020.00	167.41	86.69	-23.86	-8,181.99	5,671.92	2,929.10	2,770.31	158.79	18.447	
19,200.00	7,730.00	5,020.00	5,020.00	168.99	86.69	-23.86	-8,181.99	5,671.92	2,927.26	2,766.34	160.92	18.191	
19,203.71	7,730.00	5,020.00	5,020.00	169.05	86.69	-23.86	-8,181.99	5,671.92	2,927.26	2,766.26	161.00	18.181 CC	
19,300.00	7,730.00	5,020.00	5,020.00	170.58	86.69	-23.86	-8,181.99	5,671.92	2,928.84	2,765.65	163.19	17.948 ES	
19,400.00	7,730.00	5,020.00	5,020.00	172.17	86.69	-23.86	-8,181.99	5,671.92	2,933.83	2,768.26	165.58	17.719	
19,430.54	7,730.00	5,020.00	5,020.00	172.66	86.69	-23.86	-8,181.99	5,671.92	2,936.03	2,769.71	166.33	17.652 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.37	-5,565.53	1,768.89	5,839.95					
100.00	100.00	71.00	71.00	0.13	0.58	162.37	-5,565.53	1,768.89	5,839.88	5,839.17	0.71	8,217.676		
200.00	200.00	171.00	171.00	0.49	2.05	162.37	-5,565.53	1,768.89	5,839.88	5,837.33	2.54	2,295.854		
300.00	300.00	271.00	271.00	0.85	3.80	162.37	-5,565.53	1,768.89	5,839.88	5,835.23	4.65	1,256.573		
400.00	400.00	371.00	371.00	1.21	5.54	162.37	-5,565.53	1,768.89	5,839.88	5,833.12	6.75	865.005		
500.00	500.00	471.00	471.00	1.57	7.29	162.37	-5,565.53	1,768.89	5,839.88	5,831.02	8.86	659.496		
600.00	599.98	570.98	570.98	1.92	9.03	97.03	-5,565.53	1,768.89	5,840.09	5,829.14	10.95	533.139		
700.00	699.84	670.84	670.84	2.28	10.77	97.07	-5,565.53	1,768.89	5,840.73	5,827.68	13.05	447.521		
800.00	799.45	770.45	770.45	2.64	12.51	97.13	-5,565.53	1,768.89	5,841.81	5,826.66	15.15	385.516		
900.00	898.70	869.70	869.70	3.02	14.25	97.22	-5,565.53	1,768.89	5,843.35	5,826.08	17.26	338.497		
1,000.00	997.47	968.47	968.47	3.41	15.97	97.33	-5,565.53	1,768.89	5,845.35	5,825.97	19.38	301.571		
1,100.00	1,095.62	1,066.62	1,066.62	3.84	17.68	97.46	-5,565.53	1,768.89	5,847.85	5,826.34	21.52	271.764		
1,200.00	1,193.06	1,164.06	1,164.06	4.29	19.38	97.61	-5,565.53	1,768.89	5,850.88	5,827.21	23.67	247.165		
1,300.00	1,289.64	1,260.64	1,260.64	4.78	21.07	97.79	-5,565.53	1,768.89	5,854.47	5,828.62	25.85	226.496		
1,400.00	1,385.27	1,356.27	1,356.27	5.32	22.74	97.97	-5,565.53	1,768.89	5,858.66	5,830.61	28.05	208.870		
1,500.00	1,479.82	1,450.82	1,450.82	5.90	24.39	98.18	-5,565.53	1,768.89	5,863.49	5,833.21	30.28	193.650		
1,600.00	1,573.17	1,544.17	1,544.17	6.53	26.02	98.39	-5,565.53	1,768.89	5,869.01	5,836.47	32.54	180.370		
1,700.00	1,665.21	1,636.21	1,636.21	7.23	27.62	98.61	-5,565.53	1,768.89	5,875.28	5,840.45	34.83	168.682		
1,800.00	1,755.84	1,726.84	1,726.84	7.98	29.21	98.84	-5,565.53	1,768.89	5,882.34	5,845.18	37.16	158.317		
1,900.00	1,844.94	1,815.94	1,815.94	8.80	30.76	99.08	-5,565.53	1,768.89	5,890.25	5,850.74	39.51	149.068		
2,000.00	1,932.39	1,903.39	1,903.39	9.68	32.29	99.31	-5,565.53	1,768.89	5,899.08	5,857.17	41.91	140.769		
2,100.00	2,018.11	1,989.11	1,989.11	10.63	33.78	99.54	-5,565.53	1,768.89	5,908.87	5,864.54	44.33	133.288		
2,200.00	2,101.97	2,072.97	2,072.97	11.65	35.25	99.76	-5,565.53	1,768.89	5,919.70	5,872.91	46.79	126.519		
2,300.00	2,183.88	2,154.88	2,154.88	12.74	36.68	99.98	-5,565.53	1,768.89	5,931.62	5,882.35	49.28	120.372		
2,400.00	2,263.74	2,234.74	2,234.74	13.90	38.07	100.18	-5,565.53	1,768.89	5,944.70	5,892.91	51.79	114.774		
2,431.61	2,288.54	2,259.54	2,259.54	14.29	38.50	100.24	-5,565.53	1,768.89	5,949.09	5,896.49	52.60	113.111		
2,500.00	2,341.97	2,312.97	2,312.97	15.13	39.44	100.56	-5,565.53	1,768.89	5,958.85	5,904.52	54.33	109.672		
2,600.00	2,420.08	2,408.92	2,391.08	16.37	41.11	101.02	-5,565.53	1,768.89	5,973.65	5,916.46	57.20	104.441		
2,700.00	2,498.20	2,469.20	2,469.20	17.63	42.16	101.49	-5,565.53	1,768.89	5,989.07	5,929.62	59.44	100.754		
2,800.00	2,576.32	2,547.32	2,547.32	18.89	43.53	101.95	-5,565.53	1,768.89	6,005.09	5,943.09	62.00	96.850		
2,900.00	2,654.43	2,625.43	2,625.43	20.17	44.89	102.41	-5,565.53	1,768.89	6,021.72	5,957.15	64.57	93.263		
3,000.00	2,732.55	2,703.55	2,703.55	21.45	46.25	102.87	-5,565.53	1,768.89	6,038.94	5,971.81	67.13	89.960		
3,100.00	2,810.67	2,781.67	2,781.67	22.74	47.62	103.33	-5,565.53	1,768.89	6,056.77	5,987.08	69.69	86.911		
3,200.00	2,888.78	2,859.78	2,859.78	24.03	48.98	103.78	-5,565.53	1,768.89	6,075.18	6,002.93	72.25	84.089		
3,300.00	2,966.90	2,937.90	2,937.90	25.33	50.34	104.24	-5,565.53	1,768.89	6,094.17	6,019.37	74.80	81.472		
3,400.00	3,045.02	3,016.02	3,016.02	26.63	51.71	104.69	-5,565.53	1,768.89	6,113.75	6,036.40	77.35	79.041		
3,500.00	3,123.13	3,105.87	3,094.13	27.94	53.27	105.14	-5,565.53	1,768.89	6,133.89	6,053.79	80.10	76.581		
3,600.00	3,201.25	3,172.25	3,172.25	29.24	54.43	105.59	-5,565.53	1,768.89	6,154.61	6,072.18	82.43	74.665		
3,700.00	3,279.37	3,250.37	3,250.37	30.55	55.80	106.03	-5,565.53	1,768.89	6,175.88	6,090.92	84.96	72.691		
3,800.00	3,357.49	3,328.49	3,328.49	31.86	57.16	106.48	-5,565.53	1,768.89	6,197.71	6,110.23	87.48	70.844		
3,900.00	3,435.60	3,406.60	3,406.60	33.18	58.52	106.92	-5,565.53	1,768.89	6,220.09	6,130.09	90.00	69.112		
4,000.00	3,513.72	3,484.72	3,484.72	34.49	59.89	107.36	-5,565.53	1,768.89	6,243.02	6,150.51	92.51	67.486		
4,100.00	3,591.84	3,562.84	3,562.84	35.81	61.25	107.80	-5,565.53	1,768.89	6,266.48	6,171.47	95.01	65.956		
4,200.00	3,669.95	3,640.95	3,640.95	37.12	62.61	108.23	-5,565.53	1,768.89	6,290.48	6,192.98	97.50	64.516		
4,300.00	3,748.07	3,719.07	3,719.07	38.44	63.98	108.67	-5,565.53	1,768.89	6,315.00	6,215.02	99.99	63.159		
4,400.00	3,826.19	3,802.81	3,797.19	39.76	65.44	109.10	-5,565.53	1,768.89	6,340.04	6,237.48	102.56	61.818		
4,500.00	3,904.30	3,875.30	3,875.30	41.08	66.70	109.53	-5,565.53	1,768.89	6,365.60	6,260.67	104.93	60.667		
4,600.00	3,982.42	3,953.42	3,953.42	42.40	68.07	109.96	-5,565.53	1,768.89	6,391.66	6,284.28	107.38	59.521		
4,700.00	4,060.54	4,031.54	4,031.54	43.72	69.43	110.38	-5,565.53	1,768.89	6,418.23	6,308.39	109.83	58.436		
4,800.00	4,138.66	4,109.66	4,109.66	45.05	70.79	110.80	-5,565.53	1,768.89	6,445.29	6,333.02	112.27	57.408		
4,900.00	4,216.77	4,187.77	4,187.77	46.37	72.16	111.22	-5,565.53	1,768.89	6,472.84	6,358.14	114.70	56.432		
5,000.00	4,294.89	4,265.89	4,265.89	47.69	73.52	111.64	-5,565.53	1,768.89	6,500.87	6,383.75	117.12	55.505		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,344.01	4,344.01	49.02	74.88	112.06	-5,565.53	1,768.89	6,529.38	6,409.85	119.53	54.624		
5,200.00	4,451.12	4,422.12	4,422.12	50.34	76.25	112.47	-5,565.53	1,768.89	6,558.36	6,436.42	121.93	53.786		
5,300.00	4,529.24	4,500.24	4,500.24	51.67	77.61	112.88	-5,565.53	1,768.89	6,587.80	6,463.48	124.32	52.989		
5,400.00	4,607.36	4,578.36	4,578.36	52.99	78.97	113.29	-5,565.53	1,768.89	6,617.70	6,490.99	126.71	52.228		
5,500.00	4,685.47	4,656.47	4,656.47	54.32	80.34	113.69	-5,565.53	1,768.89	6,648.05	6,518.98	129.08	51.504		
5,600.00	4,763.59	4,734.59	4,734.59	55.64	81.70	114.10	-5,565.53	1,768.89	6,678.85	6,547.41	131.44	50.812		
5,700.00	4,841.71	4,812.71	4,812.71	56.97	83.06	114.50	-5,565.53	1,768.89	6,710.09	6,576.30	133.79	50.152		
5,800.00	4,919.83	4,890.83	4,890.83	58.30	84.75	114.89	-5,565.53	1,768.89	6,741.76	6,605.31	136.46	49.405		
5,900.00	4,997.94	4,968.94	4,968.94	59.62	85.79	115.29	-5,565.53	1,768.89	6,773.86	6,635.39	138.47	48.919		
6,000.00	5,076.06	5,047.06	5,047.06	60.95	87.15	115.68	-5,565.53	1,768.89	6,806.38	6,665.59	140.80	48.342		
6,100.00	5,154.18	5,125.18	5,125.18	62.28	88.52	116.07	-5,565.53	1,768.89	6,839.32	6,696.21	143.11	47.790		
6,200.00	5,232.29	5,125.00	5,125.00	63.61	88.51	116.07	-5,565.53	1,768.89	6,873.11	6,729.11	144.00	47.731		
6,300.00	5,310.41	5,125.00	5,125.00	64.93	88.51	116.07	-5,565.53	1,768.89	6,908.18	6,763.32	144.86	47.689		
6,400.00	5,388.53	5,125.00	5,125.00	66.26	88.51	116.07	-5,565.53	1,768.89	6,944.52	6,798.83	145.69	47.666		
6,500.00	5,466.64	5,125.00	5,125.00	67.59	88.51	116.07	-5,565.53	1,768.89	6,982.10	6,835.61	146.49	47.662		
6,600.00	5,544.76	5,125.00	5,125.00	68.92	88.51	116.07	-5,565.53	1,768.89	7,020.90	6,873.63	147.27	47.674		
6,700.00	5,622.88	5,125.00	5,125.00	70.25	88.51	116.07	-5,565.53	1,768.89	7,060.91	6,912.89	148.01	47.704		
6,800.00	5,701.00	5,125.00	5,125.00	71.58	88.51	116.07	-5,565.53	1,768.89	7,102.10	6,953.36	148.73	47.750		
6,900.00	5,779.11	5,125.00	5,125.00	72.91	88.51	116.07	-5,565.53	1,768.89	7,144.45	6,995.02	149.43	47.812		
7,000.00	5,857.23	5,125.00	5,125.00	74.23	88.51	116.07	-5,565.53	1,768.89	7,187.94	7,037.85	150.09	47.890		
7,100.00	5,935.35	5,125.00	5,125.00	75.56	88.51	116.07	-5,565.53	1,768.89	7,232.55	7,081.82	150.73	47.982		
7,200.00	6,013.46	5,125.00	5,125.00	76.89	88.51	116.07	-5,565.53	1,768.89	7,278.27	7,126.92	151.35	48.089		
7,300.00	6,091.58	5,125.00	5,125.00	78.22	88.51	116.07	-5,565.53	1,768.89	7,325.06	7,173.12	151.94	48.210		
7,400.00	6,169.70	5,125.00	5,125.00	79.55	88.51	116.07	-5,565.53	1,768.89	7,372.92	7,220.41	152.51	48.345		
7,500.00	6,247.81	5,125.00	5,125.00	80.88	88.51	116.07	-5,565.53	1,768.89	7,421.81	7,268.76	153.05	48.493		
7,600.00	6,325.93	5,125.00	5,125.00	82.21	88.51	116.07	-5,565.53	1,768.89	7,471.72	7,318.15	153.57	48.654		
7,700.00	6,404.05	5,125.00	5,125.00	83.54	88.51	116.07	-5,565.53	1,768.89	7,522.63	7,368.56	154.07	48.827		
7,800.00	6,482.17	5,125.00	5,125.00	84.87	88.51	116.07	-5,565.53	1,768.89	7,574.52	7,419.97	154.54	49.012		
7,900.00	6,560.28	5,125.00	5,125.00	86.20	88.51	116.07	-5,565.53	1,768.89	7,627.36	7,472.36	155.00	49.209		
8,000.00	6,638.40	5,125.00	5,125.00	87.53	88.51	116.07	-5,565.53	1,768.89	7,681.15	7,525.71	155.43	49.417		
8,100.00	6,716.52	5,125.00	5,125.00	88.86	88.51	116.07	-5,565.53	1,768.89	7,735.85	7,580.00	155.85	49.636		
8,200.00	6,794.63	5,125.00	5,125.00	90.20	88.51	116.07	-5,565.53	1,768.89	7,791.45	7,635.21	156.25	49.866		
8,300.00	6,872.75	5,125.00	5,125.00	91.53	88.51	116.07	-5,565.53	1,768.89	7,847.94	7,691.31	156.62	50.107		
8,400.00	6,950.87	5,125.00	5,125.00	92.86	88.51	116.07	-5,565.53	1,768.89	7,905.28	7,748.30	156.98	50.357		
8,500.00	7,028.98	5,125.00	5,125.00	94.19	88.51	116.07	-5,565.53	1,768.89	7,963.47	7,806.14	157.33	50.617		
8,600.00	7,107.10	5,125.00	5,125.00	95.52	88.51	116.07	-5,565.53	1,768.89	8,022.48	7,864.83	157.65	50.887		
8,647.91	7,144.53	5,125.00	5,125.00	96.16	88.51	116.07	-5,565.53	1,768.89	8,051.04	7,893.23	157.80	51.019		
8,650.00	7,146.16	5,125.00	5,125.00	96.18	88.51	115.81	-5,565.53	1,768.89	8,052.29	7,894.47	157.81	51.025		
8,700.00	7,185.66	5,125.00	5,125.00	96.84	88.51	109.28	-5,565.53	1,768.89	8,080.38	7,922.40	157.97	51.151		
8,750.00	7,225.78	5,125.00	5,125.00	97.47	88.51	102.39	-5,565.53	1,768.89	8,105.00	7,946.86	158.14	51.252		
8,800.00	7,266.21	5,125.00	5,125.00	98.08	88.51	95.31	-5,565.53	1,768.89	8,126.02	7,967.70	158.31	51.329		
8,850.00	7,306.63	5,125.00	5,125.00	98.64	88.51	88.29	-5,565.53	1,768.89	8,143.28	7,984.79	158.49	51.381		
8,900.00	7,346.75	5,125.00	5,125.00	99.17	88.51	81.56	-5,565.53	1,768.89	8,156.69	7,998.03	158.66	51.411		
8,950.00	7,386.25	5,125.00	5,125.00	99.64	88.51	75.30	-5,565.53	1,768.89	8,166.15	8,007.34	158.82	51.419		
9,000.00	7,424.84	5,125.00	5,125.00	100.06	88.51	69.64	-5,565.53	1,768.89	8,171.63	8,012.66	158.96	51.406		
9,050.00	7,462.22	5,125.00	5,125.00	100.42	88.51	64.65	-5,565.53	1,768.89	8,173.07	8,013.97	159.09	51.373		
9,100.00	7,498.11	5,125.00	5,125.00	100.74	88.51	60.32	-5,565.53	1,768.89	8,170.47	8,011.26	159.20	51.321		
9,150.00	7,532.24	5,125.00	5,125.00	100.99	88.51	56.62	-5,565.53	1,768.89	8,163.85	8,004.55	159.29	51.250		
9,200.00	7,564.34	5,125.00	5,125.00	101.19	88.51	53.51	-5,565.53	1,768.89	8,153.24	7,993.88	159.36	51.162		
9,250.00	7,594.17	5,125.00	5,125.00	101.34	88.51	50.92	-5,565.53	1,768.89	8,138.72	7,979.31	159.41	51.055		
9,300.00	7,621.50	5,125.00	5,125.00	101.45	88.51	48.81	-5,565.53	1,768.89	8,120.37	7,960.94	159.43	50.932		
9,350.00	7,646.13	5,125.00	5,125.00	101.50	88.51	47.13	-5,565.53	1,768.89	8,098.31	7,938.87	159.44	50.792		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	5,125.00	5,125.00	101.51	88.51	45.85	-5,565.53	1,768.89	8,072.67	7,913.25	159.43	50.636		
9,450.00	7,686.55	5,125.00	5,125.00	101.48	88.51	44.96	-5,565.53	1,768.89	8,043.62	7,884.23	159.39	50.464		
9,500.00	7,702.04	5,125.00	5,125.00	101.42	88.51	44.43	-5,565.53	1,768.89	8,011.34	7,851.99	159.35	50.275		
9,550.00	7,714.20	5,125.00	5,125.00	101.33	88.51	44.29	-5,565.53	1,768.89	7,976.04	7,816.75	159.29	50.072		
9,600.00	7,722.96	5,125.00	5,125.00	101.20	88.51	44.55	-5,565.53	1,768.89	7,937.96	7,778.73	159.23	49.852		
9,650.00	7,728.24	5,125.00	5,125.00	101.06	88.51	45.30	-5,565.53	1,768.89	7,897.33	7,738.17	159.16	49.618		
9,699.97	7,730.00	5,125.00	5,125.00	100.90	88.51	46.64	-5,565.53	1,768.89	7,854.47	7,695.37	159.10	49.369		
9,800.00	7,730.00	5,125.00	5,125.00	100.56	88.51	46.64	-5,565.53	1,768.89	7,766.73	7,607.77	158.96	48.859		
9,900.00	7,730.00	5,125.00	5,125.00	100.24	88.51	46.64	-5,565.53	1,768.89	7,679.32	7,520.50	158.82	48.352		
10,000.00	7,730.00	5,125.00	5,125.00	99.93	88.51	46.64	-5,565.53	1,768.89	7,592.23	7,433.55	158.68	47.846		
10,100.00	7,730.00	5,125.00	5,125.00	99.64	88.51	46.64	-5,565.53	1,768.89	7,505.45	7,346.92	158.54	47.342		
10,200.00	7,730.00	5,125.00	5,125.00	99.36	88.51	46.64	-5,565.53	1,768.89	7,419.01	7,260.62	158.39	46.840		
10,300.00	7,730.00	5,125.00	5,125.00	99.09	88.51	46.64	-5,565.53	1,768.89	7,332.91	7,174.67	158.24	46.339		
10,400.00	7,730.00	5,125.00	5,125.00	98.84	88.51	46.64	-5,565.53	1,768.89	7,247.17	7,089.08	158.09	45.841		
10,500.00	7,730.00	5,125.00	5,125.00	98.61	88.51	46.64	-5,565.53	1,768.89	7,161.80	7,003.86	157.94	45.345		
10,600.00	7,730.00	5,125.00	5,125.00	98.39	88.51	46.64	-5,565.53	1,768.89	7,076.82	6,919.03	157.79	44.851		
10,700.00	7,730.00	5,125.00	5,125.00	98.18	88.51	46.64	-5,565.53	1,768.89	6,992.23	6,834.60	157.63	44.359		
10,800.00	7,730.00	5,125.00	5,125.00	97.99	88.51	46.64	-5,565.53	1,768.89	6,908.05	6,750.58	157.47	43.869		
10,900.00	7,730.00	5,125.00	5,125.00	97.81	88.51	46.64	-5,565.53	1,768.89	6,824.30	6,666.99	157.31	43.382		
11,000.00	7,730.00	5,125.00	5,125.00	97.64	88.51	46.64	-5,565.53	1,768.89	6,740.99	6,583.85	157.14	42.897		
11,100.00	7,730.00	5,125.00	5,125.00	97.50	88.51	46.64	-5,565.53	1,768.89	6,658.14	6,501.17	156.97	42.415		
11,200.00	7,730.00	5,125.00	5,125.00	97.36	88.51	46.64	-5,565.53	1,768.89	6,575.77	6,418.97	156.81	41.936		
11,300.00	7,730.00	5,125.00	5,125.00	97.24	88.51	46.64	-5,565.53	1,768.89	6,493.89	6,337.26	156.63	41.459		
11,400.00	7,730.00	5,125.00	5,125.00	97.14	88.51	46.64	-5,565.53	1,768.89	6,412.53	6,256.07	156.46	40.985		
11,500.00	7,730.00	5,125.00	5,125.00	97.06	88.51	46.64	-5,565.53	1,768.89	6,331.70	6,175.42	156.28	40.515		
11,600.00	7,730.00	5,125.00	5,125.00	96.98	88.51	46.64	-5,565.53	1,768.89	6,251.43	6,095.33	156.10	40.047		
11,700.00	7,730.00	5,125.00	5,125.00	96.93	88.51	46.64	-5,565.53	1,768.89	6,171.73	6,015.81	155.92	39.582		
11,800.00	7,730.00	5,125.00	5,125.00	96.90	88.51	46.64	-5,565.53	1,768.89	6,092.63	5,936.90	155.74	39.121		
11,900.00	7,730.00	5,125.00	5,125.00	96.88	88.51	46.64	-5,565.53	1,768.89	6,014.16	5,858.60	155.55	38.663		
12,000.00	7,730.00	5,125.00	5,125.00	96.88	88.51	46.64	-5,565.53	1,768.89	5,936.33	5,780.96	155.37	38.209		
12,100.00	7,730.00	5,125.00	5,125.00	96.90	88.51	46.64	-5,565.53	1,768.89	5,859.17	5,704.00	155.18	37.758		
12,200.00	7,730.00	5,125.00	5,125.00	96.94	88.51	46.64	-5,565.53	1,768.89	5,782.72	5,627.73	154.98	37.312		
12,300.00	7,730.00	5,125.00	5,125.00	97.00	88.51	46.64	-5,565.53	1,768.89	5,706.99	5,552.20	154.79	36.869		
12,400.00	7,730.00	5,125.00	5,125.00	97.08	88.51	46.64	-5,565.53	1,768.89	5,632.02	5,477.42	154.60	36.430		
12,500.00	7,730.00	5,125.00	5,125.00	97.18	88.51	46.64	-5,565.53	1,768.89	5,557.83	5,403.43	154.40	35.996		
12,600.00	7,730.00	5,125.00	5,125.00	97.31	88.51	46.64	-5,565.53	1,768.89	5,484.47	5,330.26	154.21	35.566		
12,700.00	7,730.00	5,125.00	5,125.00	97.46	88.51	46.64	-5,565.53	1,768.89	5,411.96	5,257.95	154.01	35.141		
12,800.00	7,730.00	5,125.00	5,125.00	97.64	88.51	46.64	-5,565.53	1,768.89	5,340.34	5,186.53	153.81	34.720		
12,900.00	7,730.00	5,125.00	5,125.00	97.85	88.51	46.64	-5,565.53	1,768.89	5,269.64	5,116.03	153.61	34.304		
13,000.00	7,730.00	5,125.00	5,125.00	98.09	88.51	46.64	-5,565.53	1,768.89	5,199.91	5,046.49	153.42	33.894		
13,100.00	7,730.00	5,125.00	5,125.00	98.35	88.51	46.64	-5,565.53	1,768.89	5,131.17	4,977.95	153.22	33.489		
13,200.00	7,730.00	5,125.00	5,125.00	98.65	88.51	46.64	-5,565.53	1,768.89	5,063.48	4,910.45	153.03	33.089		
13,300.00	7,730.00	5,125.00	5,125.00	98.98	88.51	46.64	-5,565.53	1,768.89	4,996.87	4,844.04	152.83	32.695		
13,400.00	7,730.00	5,125.00	5,125.00	99.34	88.51	46.64	-5,565.53	1,768.89	4,931.39	4,778.75	152.64	32.307		
13,500.00	7,730.00	5,125.00	5,125.00	99.74	88.51	46.64	-5,565.53	1,768.89	4,867.09	4,714.63	152.45	31.925		
13,600.00	7,730.00	5,125.00	5,125.00	100.17	88.51	46.64	-5,565.53	1,768.89	4,804.00	4,651.73	152.27	31.549		
13,700.00	7,730.00	5,125.00	5,125.00	100.65	88.51	46.64	-5,565.53	1,768.89	4,742.19	4,590.10	152.09	31.180		
13,800.00	7,730.00	5,125.00	5,125.00	101.16	88.51	46.64	-5,565.53	1,768.89	4,681.69	4,529.78	151.91	30.818		
13,900.00	7,730.00	5,125.00	5,125.00	101.71	88.51	46.64	-5,565.53	1,768.89	4,622.57	4,470.82	151.74	30.463		
14,000.00	7,730.00	5,125.00	5,125.00	102.30	88.51	46.64	-5,565.53	1,768.89	4,564.87	4,413.29	151.58	30.115		
14,100.00	7,730.00	5,125.00	5,125.00	102.93	88.51	46.64	-5,565.53	1,768.89	4,508.65	4,357.23	151.43	29.774		
14,200.00	7,730.00	5,125.00	5,125.00	103.60	88.51	46.64	-5,565.53	1,768.89	4,453.97	4,302.69	151.28	29.441		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	5,125.00	5,125.00	104.32	88.51	46.64	-5,565.53	1,768.89	4,400.88	4,249.73	151.15	29.117		
14,400.00	7,730.00	5,125.00	5,125.00	105.07	88.51	46.64	-5,565.53	1,768.89	4,349.44	4,198.42	151.02	28.800		
14,500.00	7,730.00	5,125.00	5,125.00	105.86	88.51	46.64	-5,565.53	1,768.89	4,299.72	4,148.81	150.91	28.492		
14,600.00	7,730.00	5,125.00	5,125.00	106.70	88.51	46.64	-5,565.53	1,768.89	4,251.76	4,100.95	150.81	28.192		
14,700.00	7,730.00	5,125.00	5,125.00	107.57	88.51	46.64	-5,565.53	1,768.89	4,205.64	4,054.91	150.73	27.902		
14,800.00	7,730.00	5,125.00	5,125.00	108.48	88.51	46.64	-5,565.53	1,768.89	4,161.40	4,010.74	150.66	27.621		
14,900.00	7,730.00	5,125.00	5,125.00	109.43	88.51	46.64	-5,565.53	1,768.89	4,119.12	3,968.51	150.61	27.349		
15,000.00	7,730.00	5,125.00	5,125.00	110.42	88.51	46.64	-5,565.53	1,768.89	4,078.86	3,928.27	150.59	27.087		
15,100.00	7,730.00	5,125.00	5,125.00	111.43	88.51	46.64	-5,565.53	1,768.89	4,040.67	3,890.09	150.58	26.834		
15,200.00	7,730.00	5,125.00	5,125.00	112.49	88.51	46.64	-5,565.53	1,768.89	4,004.61	3,854.01	150.59	26.592		
15,300.00	7,730.00	5,125.00	5,125.00	113.57	88.51	46.64	-5,565.53	1,768.89	3,970.74	3,820.11	150.63	26.361		
15,400.00	7,730.00	5,125.00	5,125.00	114.68	88.51	46.64	-5,565.53	1,768.89	3,939.12	3,788.43	150.70	26.140		
15,500.00	7,730.00	5,125.00	5,125.00	115.82	88.51	46.64	-5,565.53	1,768.89	3,909.81	3,759.02	150.79	25.929		
15,600.00	7,730.00	5,125.00	5,125.00	116.99	88.51	46.64	-5,565.53	1,768.89	3,882.85	3,731.94	150.91	25.730		
15,700.00	7,730.00	5,125.00	5,125.00	118.19	88.51	46.64	-5,565.53	1,768.89	3,858.29	3,707.24	151.05	25.543		
15,800.00	7,730.00	5,125.00	5,125.00	119.41	88.51	46.64	-5,565.53	1,768.89	3,836.18	3,684.95	151.23	25.366		
15,900.00	7,730.00	5,125.00	5,125.00	120.65	88.51	46.64	-5,565.53	1,768.89	3,816.57	3,665.13	151.44	25.202		
16,000.00	7,730.00	5,125.00	5,125.00	121.91	88.51	46.64	-5,565.53	1,768.89	3,799.49	3,647.81	151.68	25.049		
16,100.00	7,730.00	5,125.00	5,125.00	123.20	88.51	46.64	-5,565.53	1,768.89	3,784.97	3,633.02	151.95	24.909		
16,200.00	7,730.00	5,125.00	5,125.00	124.50	88.51	46.64	-5,565.53	1,768.89	3,773.05	3,620.79	152.26	24.780		
16,300.00	7,730.00	5,125.00	5,125.00	125.82	88.51	46.64	-5,565.53	1,768.89	3,763.75	3,611.15	152.60	24.665		
16,400.00	7,730.00	5,125.00	5,125.00	127.16	88.51	46.64	-5,565.53	1,768.89	3,757.09	3,604.13	152.96	24.562		
16,500.00	7,730.00	5,125.00	5,125.00	128.52	88.51	46.64	-5,565.53	1,768.89	3,753.08	3,599.72	153.36	24.472		
16,600.00	7,730.00	5,125.00	5,125.00	129.89	88.51	46.64	-5,565.53	1,768.89	3,751.74	3,597.95	153.79	24.395		
16,600.49	7,730.00	5,125.00	5,125.00	129.90	88.51	46.64	-5,565.53	1,768.89	3,751.74	3,597.95	153.79	24.395 CC, ES		
16,700.00	7,730.00	5,125.00	5,125.00	131.27	88.51	46.64	-5,565.53	1,768.89	3,753.06	3,598.81	154.24	24.332		
16,800.00	7,730.00	5,125.00	5,125.00	132.67	88.51	46.64	-5,565.53	1,768.89	3,757.04	3,602.31	154.72	24.282		
16,900.00	7,730.00	5,125.00	5,125.00	134.09	88.51	46.64	-5,565.53	1,768.89	3,763.67	3,608.45	155.23	24.246		
17,000.00	7,730.00	5,125.00	5,125.00	135.51	88.51	46.64	-5,565.53	1,768.89	3,772.95	3,617.19	155.75	24.224		
17,100.00	7,730.00	5,125.00	5,125.00	136.95	88.51	46.64	-5,565.53	1,768.89	3,784.84	3,628.55	156.30	24.216 SF		
17,200.00	7,730.00	5,125.00	5,125.00	138.40	88.51	46.64	-5,565.53	1,768.89	3,799.33	3,642.48	156.86	24.221		
17,300.00	7,730.00	5,125.00	5,125.00	139.85	88.51	46.64	-5,565.53	1,768.89	3,816.39	3,658.96	157.43	24.241		
17,400.00	7,730.00	5,125.00	5,125.00	141.32	88.51	46.64	-5,565.53	1,768.89	3,835.98	3,677.96	158.02	24.276		
17,500.00	7,730.00	5,125.00	5,125.00	142.80	88.51	46.64	-5,565.53	1,768.89	3,858.06	3,699.45	158.61	24.324		
17,600.00	7,730.00	5,125.00	5,125.00	144.28	88.51	46.64	-5,565.53	1,768.89	3,882.60	3,723.38	159.21	24.386		
17,700.00	7,730.00	5,125.00	5,125.00	145.78	88.51	46.64	-5,565.53	1,768.89	3,909.53	3,749.72	159.81	24.463		
17,800.00	7,730.00	5,125.00	5,125.00	147.28	88.51	46.64	-5,565.53	1,768.89	3,938.83	3,778.41	160.41	24.554		
17,900.00	7,730.00	5,125.00	5,125.00	148.79	88.51	46.64	-5,565.53	1,768.89	3,970.42	3,809.41	161.01	24.659		
18,000.00	7,730.00	5,125.00	5,125.00	150.31	88.51	46.64	-5,565.53	1,768.89	4,004.27	3,842.66	161.61	24.778		
18,100.00	7,730.00	5,125.00	5,125.00	151.83	88.51	46.64	-5,565.53	1,768.89	4,040.30	3,878.11	162.19	24.910		
18,200.00	7,730.00	5,125.00	5,125.00	153.37	88.51	46.64	-5,565.53	1,768.89	4,078.48	3,915.70	162.77	25.056		
18,300.00	7,730.00	5,125.00	5,125.00	154.90	88.51	46.64	-5,565.53	1,768.89	4,118.72	3,955.38	163.34	25.216		
18,400.00	7,730.00	5,125.00	5,125.00	156.45	88.51	46.64	-5,565.53	1,768.89	4,160.98	3,997.09	163.90	25.388		
18,500.00	7,730.00	5,125.00	5,125.00	158.00	88.51	46.64	-5,565.53	1,768.89	4,205.20	4,040.76	164.44	25.573		
18,600.00	7,730.00	5,125.00	5,125.00	159.55	88.51	46.64	-5,565.53	1,768.89	4,251.30	4,086.33	164.97	25.770		
18,700.00	7,730.00	5,125.00	5,125.00	161.11	88.51	46.64	-5,565.53	1,768.89	4,299.24	4,133.76	165.48	25.980		
18,800.00	7,730.00	5,125.00	5,125.00	162.68	88.51	46.64	-5,565.53	1,768.89	4,348.95	4,182.97	165.98	26.202		
18,900.00	7,730.00	5,125.00	5,125.00	164.25	88.51	46.64	-5,565.53	1,768.89	4,400.37	4,233.91	166.46	26.435		
19,000.00	7,730.00	5,125.00	5,125.00	165.83	88.51	46.64	-5,565.53	1,768.89	4,453.45	4,286.52	166.93	26.679		
19,100.00	7,730.00	5,125.00	5,125.00	167.41	88.51	46.64	-5,565.53	1,768.89	4,508.11	4,340.74	167.37	26.934		
19,200.00	7,730.00	5,125.00	5,125.00	168.99	88.51	46.64	-5,565.53	1,768.89	4,564.32	4,396.51	167.81	27.200		
19,300.00	7,730.00	5,125.00	5,125.00	170.58	88.51	46.64	-5,565.53	1,768.89	4,622.00	4,453.78	168.22	27.476		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	5,125.00	5,125.00	172.17	88.51	46.64	-5,565.53	1,768.89	4,681.11	4,512.49	168.62	27.762	
19,430.54	7,730.00	5,125.00	5,125.00	172.66	88.51	46.64	-5,565.53	1,768.89	4,699.44	4,530.70	168.73	27.851	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	150.81	-5,536.99	3,093.04	6,342.40					
100.00	100.00	71.00	71.00	0.13	0.58	150.81	-5,536.99	3,093.04	6,342.33	6,341.62	0.71	8,924.711		
200.00	200.00	171.00	171.00	0.49	2.05	150.81	-5,536.99	3,093.04	6,342.33	6,339.79	2.54	2,493.386		
300.00	300.00	271.00	271.00	0.85	3.80	150.81	-5,536.99	3,093.04	6,342.33	6,337.68	4.65	1,364.687		
400.00	400.00	371.00	371.00	1.21	5.54	150.81	-5,536.99	3,093.04	6,342.33	6,335.58	6.75	939.429		
500.00	500.00	471.00	471.00	1.57	7.29	150.81	-5,536.99	3,093.04	6,342.33	6,333.47	8.86	716.238		
600.00	599.98	570.98	570.98	1.92	9.03	85.48	-5,536.99	3,093.04	6,342.19	6,331.24	10.95	578.982		
700.00	699.84	670.84	670.84	2.28	10.77	85.53	-5,536.99	3,093.04	6,341.78	6,328.73	13.05	485.931		
800.00	799.45	770.45	770.45	2.64	12.51	85.63	-5,536.99	3,093.04	6,341.11	6,325.95	15.15	418.495		
900.00	898.70	869.70	869.70	3.02	14.25	85.75	-5,536.99	3,093.04	6,340.18	6,322.92	17.26	367.316		
1,000.00	997.47	968.47	968.47	3.41	15.97	85.92	-5,536.99	3,093.04	6,339.03	6,319.65	19.38	327.082		
1,100.00	1,095.62	1,066.62	1,066.62	3.84	17.68	86.11	-5,536.99	3,093.04	6,337.68	6,316.17	21.52	294.567		
1,200.00	1,193.06	1,164.06	1,164.06	4.29	19.38	86.34	-5,536.99	3,093.04	6,336.16	6,312.49	23.67	267.700		
1,300.00	1,289.64	1,260.64	1,260.64	4.78	21.07	86.60	-5,536.99	3,093.04	6,334.51	6,308.67	25.85	245.092		
1,400.00	1,385.27	1,356.27	1,356.27	5.32	22.74	86.89	-5,536.99	3,093.04	6,332.78	6,304.73	28.05	225.781		
1,500.00	1,479.82	1,450.82	1,450.82	5.90	24.39	87.20	-5,536.99	3,093.04	6,331.00	6,300.72	30.28	209.077		
1,600.00	1,573.17	1,544.17	1,544.17	6.53	26.02	87.54	-5,536.99	3,093.04	6,329.24	6,296.69	32.55	194.475		
1,700.00	1,665.21	1,636.21	1,636.21	7.23	27.62	87.90	-5,536.99	3,093.04	6,327.55	6,292.70	34.84	181.596		
1,800.00	1,755.84	1,726.84	1,726.84	7.98	29.21	88.27	-5,536.99	3,093.04	6,325.99	6,288.81	37.18	170.150		
1,900.00	1,844.94	1,815.94	1,815.94	8.80	30.76	88.67	-5,536.99	3,093.04	6,324.63	6,285.08	39.55	159.911		
2,000.00	1,932.39	1,903.39	1,903.39	9.68	32.29	89.07	-5,536.99	3,093.04	6,323.54	6,281.58	41.96	150.702		
2,100.00	2,018.11	1,989.11	1,989.11	10.63	33.78	89.49	-5,536.99	3,093.04	6,322.79	6,278.38	44.41	142.379		
2,200.00	2,101.97	2,072.97	2,072.97	11.65	35.25	89.91	-5,536.99	3,093.04	6,322.45	6,275.55	46.89	134.825		
2,221.68	2,119.89	2,109.11	2,109.11	11.89	35.88	90.00	-5,536.99	3,093.04	6,322.43	6,274.67	47.76	132.377		
2,300.00	2,183.88	2,154.88	2,154.88	12.74	36.68	90.33	-5,536.99	3,093.04	6,322.60	6,273.18	49.42	127.947		
2,400.00	2,263.74	2,234.74	2,234.74	13.90	38.07	90.75	-5,536.99	3,093.04	6,323.31	6,271.34	51.97	121.663		
2,431.61	2,288.54	2,259.54	2,259.54	14.29	38.50	90.88	-5,536.99	3,093.04	6,323.67	6,270.88	52.79	119.792		
2,500.00	2,341.97	2,312.97	2,312.97	15.13	39.44	91.19	-5,536.99	3,093.04	6,324.66	6,270.10	54.56	115.919		
2,600.00	2,420.08	2,408.92	2,391.08	16.37	41.11	91.63	-5,536.99	3,093.04	6,326.62	6,269.14	57.48	110.072		
2,700.00	2,498.20	2,469.20	2,469.20	17.63	42.16	92.07	-5,536.99	3,093.04	6,329.20	6,269.42	59.78	105.871		
2,800.00	2,576.32	2,547.32	2,547.32	18.89	43.53	92.51	-5,536.99	3,093.04	6,332.39	6,269.98	62.41	101.469		
2,900.00	2,654.43	2,625.43	2,625.43	20.17	44.89	92.95	-5,536.99	3,093.04	6,336.20	6,271.16	65.04	97.424		
3,000.00	2,732.55	2,703.55	2,703.55	21.45	46.25	93.39	-5,536.99	3,093.04	6,340.61	6,272.94	67.67	93.695		
3,100.00	2,810.67	2,781.67	2,781.67	22.74	47.62	93.83	-5,536.99	3,093.04	6,345.64	6,275.33	70.31	90.252		
3,200.00	2,888.78	2,859.78	2,859.78	24.03	48.98	94.27	-5,536.99	3,093.04	6,351.28	6,278.33	72.95	87.064		
3,300.00	2,966.90	2,937.90	2,937.90	25.33	50.34	94.71	-5,536.99	3,093.04	6,357.53	6,281.94	75.59	84.107		
3,400.00	3,045.02	3,016.02	3,016.02	26.63	51.71	95.15	-5,536.99	3,093.04	6,364.38	6,286.16	78.23	81.357		
3,500.00	3,123.13	3,105.87	3,094.13	27.94	53.27	95.59	-5,536.99	3,093.04	6,371.84	6,290.77	81.07	78.597		
3,600.00	3,201.25	3,172.25	3,172.25	29.24	54.43	96.03	-5,536.99	3,093.04	6,379.90	6,296.40	83.50	76.406		
3,700.00	3,279.37	3,250.37	3,250.37	30.55	55.80	96.46	-5,536.99	3,093.04	6,388.56	6,302.43	86.13	74.171		
3,800.00	3,357.49	3,328.49	3,328.49	31.86	57.16	96.90	-5,536.99	3,093.04	6,397.82	6,309.06	88.76	72.078		
3,900.00	3,435.60	3,406.60	3,406.60	33.18	58.52	97.33	-5,536.99	3,093.04	6,407.67	6,316.29	91.39	70.115		
4,000.00	3,513.72	3,484.72	3,484.72	34.49	59.89	97.77	-5,536.99	3,093.04	6,418.12	6,324.11	94.01	68.271		
4,100.00	3,591.84	3,562.84	3,562.84	35.81	61.25	98.20	-5,536.99	3,093.04	6,429.15	6,332.53	96.63	66.536		
4,200.00	3,669.95	3,640.95	3,640.95	37.12	62.61	98.63	-5,536.99	3,093.04	6,440.77	6,341.54	99.24	64.902		
4,300.00	3,748.07	3,719.07	3,719.07	38.44	63.98	99.07	-5,536.99	3,093.04	6,452.98	6,351.13	101.84	63.361		
4,400.00	3,826.19	3,802.81	3,797.19	39.76	65.44	99.50	-5,536.99	3,093.04	6,465.76	6,361.22	104.54	61.848		
4,500.00	3,904.30	3,875.30	3,875.30	41.08	66.70	99.93	-5,536.99	3,093.04	6,479.12	6,372.08	107.04	60.531		
4,600.00	3,982.42	3,953.42	3,953.42	42.40	68.07	100.35	-5,536.99	3,093.04	6,493.05	6,383.43	109.63	59.229		
4,700.00	4,060.54	4,031.54	4,031.54	43.72	69.43	100.78	-5,536.99	3,093.04	6,507.56	6,395.35	112.21	57.996		
4,800.00	4,138.66	4,109.66	4,109.66	45.05	70.79	101.21	-5,536.99	3,093.04	6,522.62	6,407.84	114.78	56.827		
4,900.00	4,216.77	4,187.77	4,187.77	46.37	72.16	101.63	-5,536.99	3,093.04	6,538.25	6,420.91	117.35	55.717		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,265.89	4,265.89	47.69	73.52	102.05	-5,536.99	3,093.04	6,554.44	6,434.53	119.91	54.663		
5,100.00	4,373.01	4,344.01	4,344.01	49.02	74.88	102.48	-5,536.99	3,093.04	6,571.18	6,448.72	122.46	53.661		
5,200.00	4,451.12	4,422.12	4,422.12	50.34	76.25	102.90	-5,536.99	3,093.04	6,588.47	6,463.47	125.00	52.708		
5,300.00	4,529.24	4,500.24	4,500.24	51.67	77.61	103.32	-5,536.99	3,093.04	6,606.30	6,478.77	127.54	51.800		
5,400.00	4,607.36	4,578.36	4,578.36	52.99	78.97	103.73	-5,536.99	3,093.04	6,624.67	6,494.61	130.06	50.935		
5,500.00	4,685.47	4,656.47	4,656.47	54.32	80.34	104.15	-5,536.99	3,093.04	6,643.58	6,511.00	132.58	50.110		
5,600.00	4,763.59	4,734.59	4,734.59	55.64	81.70	104.57	-5,536.99	3,093.04	6,663.03	6,527.93	135.09	49.323		
5,700.00	4,841.71	4,812.71	4,812.71	56.97	83.06	104.98	-5,536.99	3,093.04	6,682.99	6,545.40	137.59	48.571		
5,800.00	4,919.83	4,909.17	4,890.83	58.30	84.75	105.39	-5,536.99	3,093.04	6,703.48	6,563.08	140.40	47.744		
5,900.00	4,997.94	4,968.94	4,968.94	59.62	85.79	105.80	-5,536.99	3,093.04	6,724.49	6,581.92	142.57	47.167		
6,000.00	5,076.06	5,047.06	5,047.06	60.95	87.15	106.21	-5,536.99	3,093.04	6,746.01	6,600.97	145.04	46.511		
6,100.00	5,154.18	5,125.18	5,125.18	62.28	88.52	106.62	-5,536.99	3,093.04	6,768.04	6,620.53	147.50	45.884		
6,200.00	5,232.29	5,148.00	5,148.00	63.61	88.92	106.73	-5,536.99	3,093.04	6,790.79	6,641.82	148.97	45.585		
6,300.00	5,310.41	5,148.00	5,148.00	64.93	88.92	106.73	-5,536.99	3,093.04	6,814.90	6,664.90	150.00	45.433		
6,400.00	5,388.53	5,148.00	5,148.00	66.26	88.92	106.73	-5,536.99	3,093.04	6,840.38	6,689.38	151.00	45.301		
6,500.00	5,466.64	5,148.00	5,148.00	67.59	88.92	106.73	-5,536.99	3,093.04	6,867.23	6,715.26	151.97	45.189		
6,600.00	5,544.76	5,148.00	5,148.00	68.92	88.92	106.73	-5,536.99	3,093.04	6,895.42	6,742.51	152.91	45.096		
6,700.00	5,622.88	5,148.00	5,148.00	70.25	88.92	106.73	-5,536.99	3,093.04	6,924.94	6,771.13	153.82	45.021		
6,800.00	5,701.00	5,148.00	5,148.00	71.58	88.92	106.73	-5,536.99	3,093.04	6,955.78	6,801.08	154.70	44.964		
6,900.00	5,779.11	5,148.00	5,148.00	72.91	88.92	106.73	-5,536.99	3,093.04	6,987.91	6,832.36	155.54	44.925		
7,000.00	5,857.23	5,148.00	5,148.00	74.23	88.92	106.73	-5,536.99	3,093.04	7,021.31	6,864.95	156.37	44.903		
7,100.00	5,935.35	5,148.00	5,148.00	75.56	88.92	106.73	-5,536.99	3,093.04	7,055.98	6,898.82	157.16	44.898		
7,200.00	6,013.46	5,148.00	5,148.00	76.89	88.92	106.73	-5,536.99	3,093.04	7,091.89	6,933.97	157.92	44.908		
7,300.00	6,091.58	5,148.00	5,148.00	78.22	88.92	106.73	-5,536.99	3,093.04	7,129.02	6,970.36	158.65	44.934		
7,400.00	6,169.70	5,148.00	5,148.00	79.55	88.92	106.73	-5,536.99	3,093.04	7,167.35	7,007.99	159.36	44.976		
7,500.00	6,247.81	5,148.00	5,148.00	80.88	88.92	106.73	-5,536.99	3,093.04	7,206.86	7,046.82	160.04	45.032		
7,600.00	6,325.93	5,148.00	5,148.00	82.21	88.92	106.73	-5,536.99	3,093.04	7,247.54	7,086.85	160.69	45.102		
7,700.00	6,404.05	5,148.00	5,148.00	83.54	88.92	106.73	-5,536.99	3,093.04	7,289.37	7,128.05	161.32	45.186		
7,800.00	6,482.17	5,148.00	5,148.00	84.87	88.92	106.73	-5,536.99	3,093.04	7,332.32	7,170.40	161.92	45.284		
7,900.00	6,560.28	5,148.00	5,148.00	86.20	88.92	106.73	-5,536.99	3,093.04	7,376.37	7,213.88	162.49	45.395		
8,000.00	6,638.40	5,148.00	5,148.00	87.53	88.92	106.73	-5,536.99	3,093.04	7,421.52	7,258.47	163.05	45.518		
8,100.00	6,716.52	5,148.00	5,148.00	88.86	88.92	106.73	-5,536.99	3,093.04	7,467.72	7,304.15	163.57	45.654		
8,200.00	6,794.63	5,148.00	5,148.00	90.20	88.92	106.73	-5,536.99	3,093.04	7,514.98	7,350.90	164.08	45.802		
8,300.00	6,872.75	5,148.00	5,148.00	91.53	88.92	106.73	-5,536.99	3,093.04	7,563.26	7,398.70	164.56	45.961		
8,400.00	6,950.87	5,148.00	5,148.00	92.86	88.92	106.73	-5,536.99	3,093.04	7,612.55	7,447.53	165.02	46.132		
8,500.00	7,028.98	5,148.00	5,148.00	94.19	88.92	106.73	-5,536.99	3,093.04	7,662.83	7,497.37	165.45	46.314		
8,600.00	7,107.10	5,148.00	5,148.00	95.52	88.92	106.73	-5,536.99	3,093.04	7,714.07	7,548.20	165.87	46.507		
8,647.91	7,144.53	5,148.00	5,148.00	96.16	88.92	106.73	-5,536.99	3,093.04	7,738.96	7,572.90	166.06	46.603		
8,650.00	7,146.16	5,148.00	5,148.00	96.18	88.92	106.49	-5,536.99	3,093.04	7,740.05	7,573.98	166.07	46.607		
8,700.00	7,185.66	5,148.00	5,148.00	96.84	88.92	100.47	-5,536.99	3,093.04	7,764.22	7,597.95	166.27	46.697		
8,750.00	7,225.78	5,148.00	5,148.00	97.47	88.92	93.97	-5,536.99	3,093.04	7,784.76	7,618.29	166.47	46.764		
8,800.00	7,266.21	5,148.00	5,148.00	98.08	88.92	87.21	-5,536.99	3,093.04	7,801.53	7,634.86	166.67	46.809		
8,850.00	7,306.63	5,148.00	5,148.00	98.64	88.92	80.42	-5,536.99	3,093.04	7,814.43	7,647.58	166.85	46.834		
8,900.00	7,346.75	5,148.00	5,148.00	99.17	88.92	73.85	-5,536.99	3,093.04	7,823.39	7,656.36	167.03	46.838		
8,950.00	7,386.25	5,148.00	5,148.00	99.64	88.92	67.70	-5,536.99	3,093.04	7,828.35	7,661.16	167.19	46.823		
9,000.00	7,424.84	5,148.00	5,148.00	100.06	88.92	62.09	-5,536.99	3,093.04	7,829.27	7,661.94	167.33	46.790		
9,050.00	7,462.22	5,148.00	5,148.00	100.42	88.92	57.10	-5,536.99	3,093.04	7,826.16	7,658.72	167.44	46.740		
9,100.00	7,498.11	5,148.00	5,148.00	100.74	88.92	52.71	-5,536.99	3,093.04	7,819.03	7,651.50	167.53	46.673		
9,150.00	7,532.24	5,148.00	5,148.00	100.99	88.92	48.90	-5,536.99	3,093.04	7,807.93	7,640.34	167.59	46.589		
9,200.00	7,564.34	5,148.00	5,148.00	101.19	88.92	45.61	-5,536.99	3,093.04	7,792.92	7,625.30	167.63	46.490		
9,250.00	7,594.17	5,148.00	5,148.00	101.34	88.92	42.79	-5,536.99	3,093.04	7,774.10	7,606.46	167.64	46.375		
9,300.00	7,621.50	5,148.00	5,148.00	101.45	88.92	40.36	-5,536.99	3,093.04	7,751.58	7,583.96	167.62	46.245		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,148.00	5,148.00	101.50	88.92	38.28	-5,536.99	3,093.04	7,725.50	7,557.92	167.58	46.100		
9,400.00	7,667.87	5,148.00	5,148.00	101.51	88.92	36.49	-5,536.99	3,093.04	7,696.02	7,528.50	167.52	45.940		
9,450.00	7,686.55	5,148.00	5,148.00	101.48	88.92	34.95	-5,536.99	3,093.04	7,663.34	7,495.89	167.45	45.766		
9,500.00	7,702.04	5,148.00	5,148.00	101.42	88.92	33.59	-5,536.99	3,093.04	7,627.66	7,460.30	167.36	45.577		
9,550.00	7,714.20	5,148.00	5,148.00	101.33	88.92	32.38	-5,536.99	3,093.04	7,589.21	7,421.95	167.26	45.375		
9,600.00	7,722.96	5,148.00	5,148.00	101.20	88.92	31.25	-5,536.99	3,093.04	7,548.24	7,381.09	167.15	45.159		
9,650.00	7,728.24	5,148.00	5,148.00	101.06	88.92	30.11	-5,536.99	3,093.04	7,505.03	7,337.99	167.04	44.930		
9,699.97	7,730.00	5,148.00	5,148.00	100.90	88.92	28.80	-5,536.99	3,093.04	7,459.90	7,292.97	166.93	44.688		
9,800.00	7,730.00	5,148.00	5,148.00	100.56	88.92	28.80	-5,536.99	3,093.04	7,367.92	7,201.20	166.72	44.194		
9,900.00	7,730.00	5,148.00	5,148.00	100.24	88.92	28.80	-5,536.99	3,093.04	7,276.18	7,109.68	166.50	43.702		
10,000.00	7,730.00	5,148.00	5,148.00	99.93	88.92	28.80	-5,536.99	3,093.04	7,184.65	7,018.39	166.27	43.211		
10,100.00	7,730.00	5,148.00	5,148.00	99.64	88.92	28.80	-5,536.99	3,093.04	7,093.36	6,927.33	166.03	42.723		
10,200.00	7,730.00	5,148.00	5,148.00	99.36	88.92	28.80	-5,536.99	3,093.04	7,002.30	6,836.52	165.79	42.236		
10,300.00	7,730.00	5,148.00	5,148.00	99.09	88.92	28.80	-5,536.99	3,093.04	6,911.50	6,745.96	165.54	41.752		
10,400.00	7,730.00	5,148.00	5,148.00	98.84	88.92	28.80	-5,536.99	3,093.04	6,820.94	6,655.67	165.28	41.270		
10,500.00	7,730.00	5,148.00	5,148.00	98.61	88.92	28.80	-5,536.99	3,093.04	6,730.66	6,565.65	165.01	40.790		
10,600.00	7,730.00	5,148.00	5,148.00	98.39	88.92	28.80	-5,536.99	3,093.04	6,640.65	6,475.93	164.73	40.313		
10,700.00	7,730.00	5,148.00	5,148.00	98.18	88.92	28.80	-5,536.99	3,093.04	6,550.94	6,386.50	164.44	39.838		
10,800.00	7,730.00	5,148.00	5,148.00	97.99	88.92	28.80	-5,536.99	3,093.04	6,461.53	6,297.38	164.14	39.365		
10,900.00	7,730.00	5,148.00	5,148.00	97.81	88.92	28.80	-5,536.99	3,093.04	6,372.43	6,208.59	163.84	38.895		
11,000.00	7,730.00	5,148.00	5,148.00	97.64	88.92	28.80	-5,536.99	3,093.04	6,283.66	6,120.14	163.52	38.428		
11,100.00	7,730.00	5,148.00	5,148.00	97.50	88.92	28.80	-5,536.99	3,093.04	6,195.23	6,032.04	163.19	37.964		
11,200.00	7,730.00	5,148.00	5,148.00	97.36	88.92	28.80	-5,536.99	3,093.04	6,107.16	5,944.31	162.84	37.503		
11,300.00	7,730.00	5,148.00	5,148.00	97.24	88.92	28.80	-5,536.99	3,093.04	6,019.46	5,856.97	162.49	37.046		
11,400.00	7,730.00	5,148.00	5,148.00	97.14	88.92	28.80	-5,536.99	3,093.04	5,932.15	5,770.03	162.12	36.591		
11,500.00	7,730.00	5,148.00	5,148.00	97.06	88.92	28.80	-5,536.99	3,093.04	5,845.24	5,683.51	161.74	36.140		
11,600.00	7,730.00	5,148.00	5,148.00	96.98	88.92	28.80	-5,536.99	3,093.04	5,758.77	5,597.42	161.34	35.693		
11,700.00	7,730.00	5,148.00	5,148.00	96.93	88.92	28.80	-5,536.99	3,093.04	5,672.73	5,511.80	160.93	35.250		
11,800.00	7,730.00	5,148.00	5,148.00	96.90	88.92	28.80	-5,536.99	3,093.04	5,587.16	5,426.66	160.50	34.811		
11,900.00	7,730.00	5,148.00	5,148.00	96.88	88.92	28.80	-5,536.99	3,093.04	5,502.08	5,342.02	160.06	34.376		
12,000.00	7,730.00	5,148.00	5,148.00	96.88	88.92	28.80	-5,536.99	3,093.04	5,417.51	5,257.91	159.60	33.945		
12,100.00	7,730.00	5,148.00	5,148.00	96.90	88.92	28.80	-5,536.99	3,093.04	5,333.47	5,174.35	159.12	33.519		
12,200.00	7,730.00	5,148.00	5,148.00	96.94	88.92	28.80	-5,536.99	3,093.04	5,249.99	5,091.37	158.62	33.098		
12,300.00	7,730.00	5,148.00	5,148.00	97.00	88.92	28.80	-5,536.99	3,093.04	5,167.10	5,009.00	158.10	32.682		
12,400.00	7,730.00	5,148.00	5,148.00	97.08	88.92	28.80	-5,536.99	3,093.04	5,084.83	4,927.26	157.56	32.272		
12,500.00	7,730.00	5,148.00	5,148.00	97.18	88.92	28.80	-5,536.99	3,093.04	5,003.19	4,846.19	157.00	31.867		
12,600.00	7,730.00	5,148.00	5,148.00	97.31	88.92	28.80	-5,536.99	3,093.04	4,922.24	4,765.82	156.42	31.468		
12,700.00	7,730.00	5,148.00	5,148.00	97.46	88.92	28.80	-5,536.99	3,093.04	4,842.00	4,686.19	155.81	31.076		
12,800.00	7,730.00	5,148.00	5,148.00	97.64	88.92	28.80	-5,536.99	3,093.04	4,762.51	4,607.32	155.18	30.689		
12,900.00	7,730.00	5,148.00	5,148.00	97.85	88.92	28.80	-5,536.99	3,093.04	4,683.80	4,529.27	154.53	30.310		
13,000.00	7,730.00	5,148.00	5,148.00	98.09	88.92	28.80	-5,536.99	3,093.04	4,605.92	4,452.07	153.85	29.938		
13,100.00	7,730.00	5,148.00	5,148.00	98.35	88.92	28.80	-5,536.99	3,093.04	4,528.91	4,375.77	153.14	29.574		
13,200.00	7,730.00	5,148.00	5,148.00	98.65	88.92	28.80	-5,536.99	3,093.04	4,452.81	4,300.41	152.40	29.217		
13,300.00	7,730.00	5,148.00	5,148.00	98.98	88.92	28.80	-5,536.99	3,093.04	4,377.67	4,226.04	151.64	28.869		
13,400.00	7,730.00	5,148.00	5,148.00	99.34	88.92	28.80	-5,536.99	3,093.04	4,303.55	4,152.71	150.84	28.530		
13,500.00	7,730.00	5,148.00	5,148.00	99.74	88.92	28.80	-5,536.99	3,093.04	4,230.49	4,080.47	150.02	28.200		
13,600.00	7,730.00	5,148.00	5,148.00	100.17	88.92	28.80	-5,536.99	3,093.04	4,158.55	4,009.39	149.16	27.879		
13,700.00	7,730.00	5,148.00	5,148.00	100.65	88.92	28.80	-5,536.99	3,093.04	4,087.79	3,939.52	148.27	27.569		
13,800.00	7,730.00	5,148.00	5,148.00	101.16	88.92	28.80	-5,536.99	3,093.04	4,018.28	3,870.92	147.36	27.269		
13,900.00	7,730.00	5,148.00	5,148.00	101.71	88.92	28.80	-5,536.99	3,093.04	3,950.07	3,803.67	146.41	26.980		
14,000.00	7,730.00	5,148.00	5,148.00	102.30	88.92	28.80	-5,536.99	3,093.04	3,883.24	3,737.82	145.42	26.703		
14,100.00	7,730.00	5,148.00	5,148.00	102.93	88.92	28.80	-5,536.99	3,093.04	3,817.87	3,673.46	144.41	26.438		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,148.00	5,148.00	103.60	88.92	28.80	-5,536.99	3,093.04	3,754.01	3,610.64	143.37	26.185		
14,300.00	7,730.00	5,148.00	5,148.00	104.32	88.92	28.80	-5,536.99	3,093.04	3,691.76	3,549.47	142.30	25.944		
14,400.00	7,730.00	5,148.00	5,148.00	105.07	88.92	28.80	-5,536.99	3,093.04	3,631.20	3,490.01	141.20	25.717		
14,500.00	7,730.00	5,148.00	5,148.00	105.86	88.92	28.80	-5,536.99	3,093.04	3,572.41	3,432.34	140.07	25.504		
14,600.00	7,730.00	5,148.00	5,148.00	106.70	88.92	28.80	-5,536.99	3,093.04	3,515.49	3,376.56	138.93	25.305		
14,700.00	7,730.00	5,148.00	5,148.00	107.57	88.92	28.80	-5,536.99	3,093.04	3,460.51	3,322.75	137.76	25.120		
14,800.00	7,730.00	5,148.00	5,148.00	108.48	88.92	28.80	-5,536.99	3,093.04	3,407.59	3,271.00	136.58	24.949		
14,900.00	7,730.00	5,148.00	5,148.00	109.43	88.92	28.80	-5,536.99	3,093.04	3,356.81	3,221.41	135.40	24.792		
15,000.00	7,730.00	5,148.00	5,148.00	110.42	88.92	28.80	-5,536.99	3,093.04	3,308.27	3,174.06	134.21	24.650		
15,100.00	7,730.00	5,148.00	5,148.00	111.43	88.92	28.80	-5,536.99	3,093.04	3,262.08	3,129.05	133.03	24.522		
15,200.00	7,730.00	5,148.00	5,148.00	112.49	88.92	28.80	-5,536.99	3,093.04	3,218.34	3,086.48	131.86	24.407		
15,300.00	7,730.00	5,148.00	5,148.00	113.57	88.92	28.80	-5,536.99	3,093.04	3,177.14	3,046.42	130.72	24.305		
15,400.00	7,730.00	5,148.00	5,148.00	114.68	88.92	28.80	-5,536.99	3,093.04	3,138.58	3,008.97	129.61	24.216		
15,500.00	7,730.00	5,148.00	5,148.00	115.82	88.92	28.80	-5,536.99	3,093.04	3,102.78	2,974.23	128.55	24.137		
15,600.00	7,730.00	5,148.00	5,148.00	116.99	88.92	28.80	-5,536.99	3,093.04	3,069.81	2,942.26	127.55	24.067		
15,700.00	7,730.00	5,148.00	5,148.00	118.19	88.92	28.80	-5,536.99	3,093.04	3,039.78	2,913.15	126.63	24.005		
15,800.00	7,730.00	5,148.00	5,148.00	119.41	88.92	28.80	-5,536.99	3,093.04	3,012.76	2,886.96	125.80	23.949		
15,900.00	7,730.00	5,148.00	5,148.00	120.65	88.92	28.80	-5,536.99	3,093.04	2,988.86	2,863.78	125.07	23.897		
16,000.00	7,730.00	5,148.00	5,148.00	121.91	88.92	28.80	-5,536.99	3,093.04	2,968.12	2,843.65	124.47	23.846		
16,100.00	7,730.00	5,148.00	5,148.00	123.20	88.92	28.80	-5,536.99	3,093.04	2,950.64	2,826.63	124.01	23.794		
16,200.00	7,730.00	5,148.00	5,148.00	124.50	88.92	28.80	-5,536.99	3,093.04	2,936.46	2,812.77	123.69	23.740		
16,300.00	7,730.00	5,148.00	5,148.00	125.82	88.92	28.80	-5,536.99	3,093.04	2,925.63	2,802.09	123.54	23.682		
16,400.00	7,730.00	5,148.00	5,148.00	127.16	88.92	28.80	-5,536.99	3,093.04	2,918.18	2,794.63	123.55	23.619		
16,500.00	7,730.00	5,148.00	5,148.00	128.52	88.92	28.80	-5,536.99	3,093.04	2,914.16	2,790.41	123.74	23.550		
16,567.46	7,730.00	5,148.00	5,148.00	129.44	88.92	28.80	-5,536.99	3,093.04	2,913.38	2,789.40	123.97	23.500 CC, ES		
16,600.00	7,730.00	5,148.00	5,148.00	129.89	88.92	28.80	-5,536.99	3,093.04	2,913.56	2,789.44	124.11	23.475		
16,700.00	7,730.00	5,148.00	5,148.00	131.27	88.92	28.80	-5,536.99	3,093.04	2,916.39	2,791.73	124.66	23.395		
16,800.00	7,730.00	5,148.00	5,148.00	132.67	88.92	28.80	-5,536.99	3,093.04	2,922.64	2,797.27	125.37	23.312		
16,900.00	7,730.00	5,148.00	5,148.00	134.09	88.92	28.80	-5,536.99	3,093.04	2,932.29	2,806.05	126.24	23.228		
17,000.00	7,730.00	5,148.00	5,148.00	135.51	88.92	28.80	-5,536.99	3,093.04	2,945.31	2,818.05	127.26	23.144		
17,100.00	7,730.00	5,148.00	5,148.00	136.95	88.92	28.80	-5,536.99	3,093.04	2,961.65	2,833.24	128.41	23.065		
17,200.00	7,730.00	5,148.00	5,148.00	138.40	88.92	28.80	-5,536.99	3,093.04	2,981.25	2,851.59	129.67	22.992		
17,300.00	7,730.00	5,148.00	5,148.00	139.85	88.92	28.80	-5,536.99	3,093.04	3,004.06	2,873.04	131.02	22.928		
17,400.00	7,730.00	5,148.00	5,148.00	141.32	88.92	28.80	-5,536.99	3,093.04	3,030.00	2,897.55	132.45	22.876		
17,500.00	7,730.00	5,148.00	5,148.00	142.80	88.92	28.80	-5,536.99	3,093.04	3,058.99	2,925.04	133.94	22.838		
17,600.00	7,730.00	5,148.00	5,148.00	144.28	88.92	28.80	-5,536.99	3,093.04	3,090.94	2,955.46	135.47	22.816		
17,700.00	7,730.00	5,148.00	5,148.00	145.78	88.92	28.80	-5,536.99	3,093.04	3,125.77	2,988.73	137.03	22.810 SF		
17,800.00	7,730.00	5,148.00	5,148.00	147.28	88.92	28.80	-5,536.99	3,093.04	3,163.37	3,024.77	138.60	22.823		
17,900.00	7,730.00	5,148.00	5,148.00	148.79	88.92	28.80	-5,536.99	3,093.04	3,203.66	3,063.49	140.17	22.855		
18,000.00	7,730.00	5,148.00	5,148.00	150.31	88.92	28.80	-5,536.99	3,093.04	3,246.53	3,104.80	141.73	22.907		
18,100.00	7,730.00	5,148.00	5,148.00	151.83	88.92	28.80	-5,536.99	3,093.04	3,291.88	3,148.61	143.27	22.977		
18,200.00	7,730.00	5,148.00	5,148.00	153.37	88.92	28.80	-5,536.99	3,093.04	3,339.60	3,194.83	144.77	23.068		
18,300.00	7,730.00	5,148.00	5,148.00	154.90	88.92	28.80	-5,536.99	3,093.04	3,389.61	3,243.36	146.25	23.177		
18,400.00	7,730.00	5,148.00	5,148.00	156.45	88.92	28.80	-5,536.99	3,093.04	3,441.80	3,294.12	147.68	23.306		
18,500.00	7,730.00	5,148.00	5,148.00	158.00	88.92	28.80	-5,536.99	3,093.04	3,496.07	3,347.00	149.07	23.452		
18,600.00	7,730.00	5,148.00	5,148.00	159.55	88.92	28.80	-5,536.99	3,093.04	3,552.32	3,401.91	150.42	23.617		
18,700.00	7,730.00	5,148.00	5,148.00	161.11	88.92	28.80	-5,536.99	3,093.04	3,610.47	3,458.76	151.71	23.798		
18,800.00	7,730.00	5,148.00	5,148.00	162.68	88.92	28.80	-5,536.99	3,093.04	3,670.42	3,517.47	152.96	23.996		
18,900.00	7,730.00	5,148.00	5,148.00	164.25	88.92	28.80	-5,536.99	3,093.04	3,732.09	3,577.94	154.15	24.210		
19,000.00	7,730.00	5,148.00	5,148.00	165.83	88.92	28.80	-5,536.99	3,093.04	3,795.40	3,640.09	155.30	24.439		
19,100.00	7,730.00	5,148.00	5,148.00	167.41	88.92	28.80	-5,536.99	3,093.04	3,860.25	3,703.85	156.40	24.682		
19,200.00	7,730.00	5,148.00	5,148.00	168.99	88.92	28.80	-5,536.99	3,093.04	3,926.58	3,769.13	157.45	24.939		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT JL SEARS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,148.00	5,148.00	170.58	88.92	28.80	-5,536.99	3,093.04	3,994.31	3,835.86	158.45	25.208	
19,400.00	7,730.00	5,148.00	5,148.00	172.17	88.92	28.80	-5,536.99	3,093.04	4,063.38	3,903.97	159.41	25.490	
19,430.54	7,730.00	5,148.00	5,148.00	172.66	88.92	28.80	-5,536.99	3,093.04	4,084.73	3,925.03	159.69	25.579	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	147.47	-6,842.04	4,364.48	8,115.59					
100.00	100.00	78.00	78.00	0.13	0.65	147.47	-6,842.04	4,364.48	8,115.56	8,114.78	0.78	N/A		
200.00	200.00	178.00	178.00	0.49	2.19	147.47	-6,842.04	4,364.48	8,115.56	8,112.87	2.68	3,024.482		
300.00	300.00	278.00	278.00	0.85	3.94	147.47	-6,842.04	4,364.48	8,115.56	8,110.77	4.79	1,695.301		
400.00	400.00	378.00	378.00	1.21	5.68	147.47	-6,842.04	4,364.48	8,115.56	8,108.67	6.89	1,177.723		
500.00	500.00	478.00	478.00	1.57	7.43	147.47	-6,842.04	4,364.48	8,115.56	8,106.56	8.99	902.261		
600.00	599.98	577.98	577.98	1.92	9.17	82.13	-6,842.04	4,364.48	8,115.32	8,104.22	11.09	731.530		
700.00	699.84	677.84	677.84	2.28	10.91	82.18	-6,842.04	4,364.48	8,114.60	8,101.41	13.19	615.195		
800.00	799.45	777.45	777.45	2.64	12.65	82.27	-6,842.04	4,364.48	8,113.42	8,098.13	15.29	530.587		
900.00	898.70	876.70	876.70	3.02	14.39	82.38	-6,842.04	4,364.48	8,111.78	8,094.38	17.40	466.203		
1,000.00	997.47	975.47	975.47	3.41	16.11	82.53	-6,842.04	4,364.48	8,109.70	8,090.18	19.52	415.485		
1,100.00	1,095.62	1,073.62	1,073.62	3.84	17.82	82.71	-6,842.04	4,364.48	8,107.21	8,085.55	21.65	374.428		
1,200.00	1,193.06	1,171.06	1,171.06	4.29	19.52	82.93	-6,842.04	4,364.48	8,104.32	8,080.52	23.80	340.453		
1,300.00	1,289.64	1,267.64	1,267.64	4.78	21.21	83.17	-6,842.04	4,364.48	8,101.08	8,075.10	25.98	311.829		
1,400.00	1,385.27	1,363.27	1,363.27	5.32	22.88	83.43	-6,842.04	4,364.48	8,097.51	8,069.33	28.18	287.350		
1,500.00	1,479.82	1,457.82	1,457.82	5.90	24.53	83.73	-6,842.04	4,364.48	8,093.67	8,063.26	30.41	266.152		
1,600.00	1,573.17	1,551.17	1,551.17	6.53	26.16	84.04	-6,842.04	4,364.48	8,089.58	8,056.91	32.67	247.602		
1,700.00	1,665.21	1,643.21	1,643.21	7.23	27.76	84.38	-6,842.04	4,364.48	8,085.30	8,050.34	34.97	231.223		
1,800.00	1,755.84	1,733.84	1,733.84	7.98	29.34	84.74	-6,842.04	4,364.48	8,080.89	8,043.59	37.30	216.649		
1,900.00	1,844.94	1,822.94	1,822.94	8.80	30.90	85.12	-6,842.04	4,364.48	8,076.39	8,036.72	39.67	203.597		
2,000.00	1,932.39	1,910.39	1,910.39	9.68	32.43	85.51	-6,842.04	4,364.48	8,071.86	8,029.79	42.08	191.842		
2,100.00	2,018.11	2,003.89	1,996.11	10.63	34.06	85.91	-6,842.04	4,364.48	8,067.37	8,022.72	44.66	180.652		
2,200.00	2,101.97	2,079.97	2,079.97	11.65	35.39	86.32	-6,842.04	4,364.48	8,062.98	8,015.97	47.01	171.534		
2,300.00	2,183.88	2,161.88	2,161.88	12.74	36.82	86.74	-6,842.04	4,364.48	8,058.75	8,009.22	49.53	162.713		
2,400.00	2,263.74	2,241.74	2,241.74	13.90	38.21	87.16	-6,842.04	4,364.48	8,054.74	8,002.66	52.09	154.640		
2,431.61	2,288.54	2,266.54	2,266.54	14.29	38.64	87.29	-6,842.04	4,364.48	8,053.54	8,000.63	52.90	152.234		
2,500.00	2,341.97	2,319.97	2,319.97	15.13	39.57	87.53	-6,842.04	4,364.48	8,051.07	7,996.39	54.68	147.248		
2,600.00	2,420.08	2,401.92	2,398.08	16.37	41.01	87.88	-6,842.04	4,364.48	8,047.87	7,990.52	57.35	140.319		
2,700.00	2,498.20	2,476.20	2,476.20	17.63	42.30	88.23	-6,842.04	4,364.48	8,045.16	7,985.24	59.91	134.285		
2,800.00	2,576.32	2,554.32	2,554.32	18.89	43.66	88.57	-6,842.04	4,364.48	8,042.92	7,980.38	62.55	128.594		
2,900.00	2,654.43	2,632.43	2,632.43	20.17	45.03	88.92	-6,842.04	4,364.48	8,041.18	7,975.99	65.19	123.354		
3,000.00	2,732.55	2,710.55	2,710.55	21.45	46.39	89.27	-6,842.04	4,364.48	8,039.91	7,972.07	67.84	118.517		
3,100.00	2,810.67	2,788.67	2,788.67	22.74	47.76	89.62	-6,842.04	4,364.48	8,039.13	7,968.64	70.49	114.043		
3,200.00	2,888.78	2,866.78	2,866.78	24.03	49.12	89.96	-6,842.04	4,364.48	8,038.84	7,965.69	73.15	109.893		
3,210.65	2,897.10	2,875.10	2,875.10	24.17	49.26	90.00	-6,842.04	4,364.48	8,038.84	7,965.40	73.43	109.469		
3,300.00	2,966.90	2,944.90	2,944.90	25.33	50.48	90.31	-6,842.04	4,364.48	8,039.03	7,963.22	75.81	106.037		
3,400.00	3,045.02	3,023.02	3,023.02	26.63	51.85	90.66	-6,842.04	4,364.48	8,039.71	7,961.23	78.48	102.446		
3,500.00	3,123.13	3,101.13	3,101.13	27.94	53.21	91.01	-6,842.04	4,364.48	8,040.87	7,959.72	81.14	99.094		
3,600.00	3,201.25	3,179.25	3,179.25	29.24	54.57	91.35	-6,842.04	4,364.48	8,042.51	7,958.70	83.81	95.960		
3,700.00	3,279.37	3,257.37	3,257.37	30.55	55.94	91.70	-6,842.04	4,364.48	8,044.64	7,958.16	86.48	93.025		
3,800.00	3,357.49	3,335.49	3,335.49	31.86	57.30	92.05	-6,842.04	4,364.48	8,047.25	7,958.11	89.15	90.270		
3,900.00	3,435.60	3,413.60	3,413.60	33.18	58.66	92.39	-6,842.04	4,364.48	8,050.35	7,958.54	91.81	87.682		
4,000.00	3,513.72	3,508.28	3,491.72	34.49	60.31	92.74	-6,842.04	4,364.48	8,053.93	7,959.16	94.77	84.985		
4,100.00	3,591.84	3,569.84	3,569.84	35.81	61.39	93.09	-6,842.04	4,364.48	8,057.99	7,960.84	97.14	82.948		
4,200.00	3,669.95	3,647.95	3,647.95	37.12	62.75	93.43	-6,842.04	4,364.48	8,062.53	7,962.72	99.81	80.780		
4,300.00	3,748.07	3,726.07	3,726.07	38.44	64.12	93.78	-6,842.04	4,364.48	8,067.55	7,965.08	102.47	78.731		
4,400.00	3,826.19	3,804.19	3,804.19	39.76	65.48	94.13	-6,842.04	4,364.48	8,073.06	7,967.93	105.13	76.792		
4,500.00	3,904.30	3,882.30	3,882.30	41.08	66.84	94.47	-6,842.04	4,364.48	8,079.04	7,971.25	107.79	74.955		
4,600.00	3,982.42	3,960.42	3,960.42	42.40	68.21	94.82	-6,842.04	4,364.48	8,085.50	7,975.06	110.44	73.212		
4,700.00	4,060.54	4,038.54	4,038.54	43.72	69.57	95.16	-6,842.04	4,364.48	8,092.43	7,979.34	113.09	71.557		
4,800.00	4,138.66	4,116.66	4,116.66	45.05	70.93	95.51	-6,842.04	4,364.48	8,099.84	7,984.11	115.74	69.985		
4,900.00	4,216.77	4,205.23	4,194.77	46.37	72.48	95.85	-6,842.04	4,364.48	8,107.73	7,989.17	118.56	68.383		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,272.89	4,272.89	47.69	73.66	96.20	-6,842.04	4,364.48	8,116.09	7,995.07	121.02	67.063		
5,100.00	4,373.01	4,351.01	4,351.01	49.02	75.02	96.54	-6,842.04	4,364.48	8,124.92	8,001.26	123.66	65.705		
5,200.00	4,451.12	4,429.12	4,429.12	50.34	76.39	96.88	-6,842.04	4,364.48	8,134.21	8,007.92	126.29	64.409		
5,300.00	4,529.24	4,507.24	4,507.24	51.67	77.75	97.22	-6,842.04	4,364.48	8,143.98	8,015.06	128.92	63.172		
5,400.00	4,607.36	4,585.36	4,585.36	52.99	79.11	97.57	-6,842.04	4,364.48	8,154.21	8,022.67	131.54	61.991		
5,500.00	4,685.47	4,663.47	4,663.47	54.32	80.48	97.91	-6,842.04	4,364.48	8,164.91	8,030.75	134.16	60.861		
5,600.00	4,763.59	4,741.59	4,741.59	55.64	81.84	98.25	-6,842.04	4,364.48	8,176.07	8,039.30	136.77	59.779		
5,700.00	4,841.71	4,819.71	4,819.71	56.97	83.20	98.59	-6,842.04	4,364.48	8,187.69	8,048.31	139.38	58.744		
5,800.00	4,919.83	4,902.17	4,897.83	58.30	84.64	98.93	-6,842.04	4,364.48	8,199.77	8,057.71	142.06	57.722		
5,900.00	4,997.94	4,975.94	4,975.94	59.62	85.93	99.27	-6,842.04	4,364.48	8,212.31	8,067.73	144.58	56.802		
6,000.00	5,076.06	5,054.06	5,054.06	60.95	87.29	99.60	-6,842.04	4,364.48	8,225.30	8,078.13	147.17	55.890		
6,100.00	5,154.18	5,050.00	5,050.00	62.28	87.22	99.59	-6,842.04	4,364.48	8,239.15	8,090.85	148.30	55.558		
6,200.00	5,232.29	5,050.00	5,050.00	63.61	87.22	99.59	-6,842.04	4,364.48	8,254.19	8,104.71	149.48	55.220		
6,300.00	5,310.41	5,050.00	5,050.00	64.93	87.22	99.59	-6,842.04	4,364.48	8,270.42	8,119.78	150.64	54.902		
6,400.00	5,388.53	5,050.00	5,050.00	66.26	87.22	99.59	-6,842.04	4,364.48	8,287.81	8,136.04	151.78	54.605		
6,500.00	5,466.64	5,050.00	5,050.00	67.59	87.22	99.59	-6,842.04	4,364.48	8,306.38	8,153.48	152.90	54.327		
6,600.00	5,544.76	5,050.00	5,050.00	68.92	87.22	99.59	-6,842.04	4,364.48	8,326.10	8,172.11	153.99	54.068		
6,700.00	5,622.88	5,050.00	5,050.00	70.25	87.22	99.59	-6,842.04	4,364.48	8,346.98	8,191.91	155.07	53.827		
6,800.00	5,701.00	5,050.00	5,050.00	71.58	87.22	99.59	-6,842.04	4,364.48	8,369.00	8,212.87	156.13	53.604		
6,900.00	5,779.11	5,050.00	5,050.00	72.91	87.22	99.59	-6,842.04	4,364.48	8,392.15	8,234.99	157.16	53.399		
7,000.00	5,857.23	5,050.00	5,050.00	74.23	87.22	99.59	-6,842.04	4,364.48	8,416.43	8,258.26	158.17	53.211		
7,100.00	5,935.35	5,050.00	5,050.00	75.56	87.22	99.59	-6,842.04	4,364.48	8,441.82	8,282.66	159.16	53.040		
7,200.00	6,013.46	5,050.00	5,050.00	76.89	87.22	99.59	-6,842.04	4,364.48	8,468.32	8,308.19	160.13	52.884		
7,300.00	6,091.58	5,050.00	5,050.00	78.22	87.22	99.59	-6,842.04	4,364.48	8,495.91	8,334.84	161.08	52.745		
7,400.00	6,169.70	5,050.00	5,050.00	79.55	87.22	99.59	-6,842.04	4,364.48	8,524.59	8,362.59	162.00	52.621		
7,500.00	6,247.81	5,050.00	5,050.00	80.88	87.22	99.59	-6,842.04	4,364.48	8,554.34	8,391.43	162.90	52.511		
7,600.00	6,325.93	5,050.00	5,050.00	82.21	87.22	99.59	-6,842.04	4,364.48	8,585.15	8,421.36	163.79	52.417		
7,700.00	6,404.05	5,050.00	5,050.00	83.54	87.22	99.59	-6,842.04	4,364.48	8,617.01	8,452.36	164.65	52.336		
7,800.00	6,482.17	5,050.00	5,050.00	84.87	87.22	99.59	-6,842.04	4,364.48	8,649.91	8,484.42	165.49	52.270		
7,900.00	6,560.28	5,050.00	5,050.00	86.20	87.22	99.59	-6,842.04	4,364.48	8,683.84	8,517.53	166.30	52.217		
8,000.00	6,638.40	5,050.00	5,050.00	87.53	87.22	99.59	-6,842.04	4,364.48	8,718.78	8,551.68	167.10	52.177		
8,100.00	6,716.52	5,050.00	5,050.00	88.86	87.22	99.59	-6,842.04	4,364.48	8,754.72	8,586.85	167.88	52.149		
8,200.00	6,794.63	5,050.00	5,050.00	90.20	87.22	99.59	-6,842.04	4,364.48	8,791.66	8,623.02	168.63	52.135		
8,300.00	6,872.75	5,050.00	5,050.00	91.53	87.22	99.59	-6,842.04	4,364.48	8,829.57	8,660.20	169.37	52.132		
8,400.00	6,950.87	5,050.00	5,050.00	92.86	87.22	99.59	-6,842.04	4,364.48	8,868.45	8,698.37	170.08	52.142		
8,500.00	7,028.98	5,050.00	5,050.00	94.19	87.22	99.59	-6,842.04	4,364.48	8,908.28	8,737.50	170.78	52.162		
8,600.00	7,107.10	5,050.00	5,050.00	95.52	87.22	99.59	-6,842.04	4,364.48	8,949.05	8,777.60	171.46	52.195		
8,647.91	7,144.53	5,050.00	5,050.00	96.16	87.22	99.59	-6,842.04	4,364.48	8,968.92	8,797.14	171.77	52.214		
8,650.00	7,146.16	5,050.00	5,050.00	96.18	87.22	99.36	-6,842.04	4,364.48	8,969.78	8,798.00	171.79	52.215		
8,700.00	7,185.66	5,050.00	5,050.00	96.84	87.22	93.54	-6,842.04	4,364.48	8,988.61	8,816.50	172.11	52.225		
8,750.00	7,225.78	5,050.00	5,050.00	97.47	87.22	87.19	-6,842.04	4,364.48	9,003.64	8,831.21	172.44	52.214		
8,800.00	7,266.21	5,050.00	5,050.00	98.08	87.22	80.53	-6,842.04	4,364.48	9,014.78	8,842.03	172.75	52.183		
8,850.00	7,306.63	5,050.00	5,050.00	98.64	87.22	73.80	-6,842.04	4,364.48	9,021.96	8,848.91	173.05	52.134		
8,900.00	7,346.75	5,050.00	5,050.00	99.17	87.22	67.24	-6,842.04	4,364.48	9,025.14	8,851.80	173.34	52.068		
8,950.00	7,386.25	5,050.00	5,050.00	99.64	87.22	61.05	-6,842.04	4,364.48	9,024.29	8,850.69	173.59	51.986		
9,000.00	7,424.84	5,050.00	5,050.00	100.06	87.22	55.36	-6,842.04	4,364.48	9,019.41	8,845.59	173.82	51.889		
9,050.00	7,462.22	5,050.00	5,050.00	100.42	87.22	50.23	-6,842.04	4,364.48	9,010.55	8,836.53	174.02	51.779		
9,100.00	7,498.11	5,050.00	5,050.00	100.74	87.22	45.66	-6,842.04	4,364.48	8,997.75	8,823.57	174.19	51.656		
9,150.00	7,532.24	5,050.00	5,050.00	100.99	87.22	41.60	-6,842.04	4,364.48	8,981.10	8,806.79	174.32	51.521		
9,200.00	7,564.34	5,050.00	5,050.00	101.19	87.22	37.99	-6,842.04	4,364.48	8,960.71	8,786.29	174.42	51.375		
9,250.00	7,594.17	5,050.00	5,050.00	101.34	87.22	34.76	-6,842.04	4,364.48	8,936.69	8,762.21	174.49	51.217		
9,300.00	7,621.50	5,050.00	5,050.00	101.45	87.22	31.82	-6,842.04	4,364.48	8,909.21	8,734.69	174.52	51.049		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,050.00	5,050.00	101.50	87.22	29.09	-6,842.04	4,364.48	8,878.45	8,703.92	174.53	50.871		
9,400.00	7,667.87	5,050.00	5,050.00	101.51	87.22	26.49	-6,842.04	4,364.48	8,844.60	8,670.09	174.51	50.682		
9,450.00	7,686.55	5,050.00	5,050.00	101.48	87.22	23.89	-6,842.04	4,364.48	8,807.89	8,633.42	174.47	50.484		
9,500.00	7,702.04	5,050.00	5,050.00	101.42	87.22	21.16	-6,842.04	4,364.48	8,768.57	8,594.16	174.41	50.277		
9,550.00	7,714.20	5,050.00	5,050.00	101.33	87.22	18.12	-6,842.04	4,364.48	8,726.90	8,552.57	174.33	50.060		
9,600.00	7,722.96	5,050.00	5,050.00	101.20	87.22	14.44	-6,842.04	4,364.48	8,683.16	8,508.92	174.24	49.835		
9,650.00	7,728.24	5,050.00	5,050.00	101.06	87.22	9.63	-6,842.04	4,364.48	8,637.67	8,463.53	174.14	49.602		
9,699.97	7,730.00	5,050.00	5,050.00	100.90	87.22	2.75	-6,842.04	4,364.48	8,590.76	8,416.72	174.04	49.362		
9,800.00	7,730.00	5,050.00	5,050.00	100.56	87.22	2.75	-6,842.04	4,364.48	8,495.71	8,321.88	173.83	48.874		
9,900.00	7,730.00	5,050.00	5,050.00	100.24	87.22	2.75	-6,842.04	4,364.48	8,400.80	8,227.19	173.61	48.389		
10,000.00	7,730.00	5,050.00	5,050.00	99.93	87.22	2.75	-6,842.04	4,364.48	8,306.01	8,132.62	173.39	47.904		
10,100.00	7,730.00	5,050.00	5,050.00	99.64	87.22	2.75	-6,842.04	4,364.48	8,211.34	8,038.18	173.16	47.420		
10,200.00	7,730.00	5,050.00	5,050.00	99.36	87.22	2.75	-6,842.04	4,364.48	8,116.80	7,943.87	172.93	46.937		
10,300.00	7,730.00	5,050.00	5,050.00	99.09	87.22	2.75	-6,842.04	4,364.48	8,022.40	7,849.71	172.69	46.456		
10,400.00	7,730.00	5,050.00	5,050.00	98.84	87.22	2.75	-6,842.04	4,364.48	7,928.13	7,755.68	172.44	45.975		
10,500.00	7,730.00	5,050.00	5,050.00	98.61	87.22	2.75	-6,842.04	4,364.48	7,834.00	7,661.81	172.19	45.496		
10,600.00	7,730.00	5,050.00	5,050.00	98.39	87.22	2.75	-6,842.04	4,364.48	7,740.02	7,568.09	171.93	45.018		
10,700.00	7,730.00	5,050.00	5,050.00	98.18	87.22	2.75	-6,842.04	4,364.48	7,646.19	7,474.53	171.66	44.542		
10,800.00	7,730.00	5,050.00	5,050.00	97.99	87.22	2.75	-6,842.04	4,364.48	7,552.53	7,381.14	171.39	44.067		
10,900.00	7,730.00	5,050.00	5,050.00	97.81	87.22	2.75	-6,842.04	4,364.48	7,459.02	7,287.92	171.11	43.593		
11,000.00	7,730.00	5,050.00	5,050.00	97.64	87.22	2.75	-6,842.04	4,364.48	7,365.69	7,194.87	170.81	43.121		
11,100.00	7,730.00	5,050.00	5,050.00	97.50	87.22	2.75	-6,842.04	4,364.48	7,272.53	7,102.02	170.51	42.651		
11,200.00	7,730.00	5,050.00	5,050.00	97.36	87.22	2.75	-6,842.04	4,364.48	7,179.56	7,009.36	170.20	42.182		
11,300.00	7,730.00	5,050.00	5,050.00	97.24	87.22	2.75	-6,842.04	4,364.48	7,086.78	6,916.89	169.89	41.715		
11,400.00	7,730.00	5,050.00	5,050.00	97.14	87.22	2.75	-6,842.04	4,364.48	6,994.20	6,824.64	169.56	41.250		
11,500.00	7,730.00	5,050.00	5,050.00	97.06	87.22	2.75	-6,842.04	4,364.48	6,901.82	6,732.61	169.22	40.786		
11,600.00	7,730.00	5,050.00	5,050.00	96.98	87.22	2.75	-6,842.04	4,364.48	6,809.67	6,640.80	168.87	40.325		
11,700.00	7,730.00	5,050.00	5,050.00	96.93	87.22	2.75	-6,842.04	4,364.48	6,717.73	6,549.22	168.51	39.866		
11,800.00	7,730.00	5,050.00	5,050.00	96.90	87.22	2.75	-6,842.04	4,364.48	6,626.03	6,457.89	168.14	39.409		
11,900.00	7,730.00	5,050.00	5,050.00	96.88	87.22	2.75	-6,842.04	4,364.48	6,534.57	6,366.82	167.75	38.954		
12,000.00	7,730.00	5,050.00	5,050.00	96.88	87.22	2.75	-6,842.04	4,364.48	6,443.37	6,276.01	167.35	38.501		
12,100.00	7,730.00	5,050.00	5,050.00	96.90	87.22	2.75	-6,842.04	4,364.48	6,352.43	6,185.48	166.94	38.051		
12,200.00	7,730.00	5,050.00	5,050.00	96.94	87.22	2.75	-6,842.04	4,364.48	6,261.77	6,095.25	166.52	37.604		
12,300.00	7,730.00	5,050.00	5,050.00	97.00	87.22	2.75	-6,842.04	4,364.48	6,171.39	6,005.31	166.08	37.159		
12,400.00	7,730.00	5,050.00	5,050.00	97.08	87.22	2.75	-6,842.04	4,364.48	6,081.32	5,915.69	165.63	36.717		
12,500.00	7,730.00	5,050.00	5,050.00	97.18	87.22	2.75	-6,842.04	4,364.48	5,991.56	5,826.40	165.16	36.278		
12,600.00	7,730.00	5,050.00	5,050.00	97.31	87.22	2.75	-6,842.04	4,364.48	5,902.13	5,737.46	164.67	35.843		
12,700.00	7,730.00	5,050.00	5,050.00	97.46	87.22	2.75	-6,842.04	4,364.48	5,813.05	5,648.88	164.16	35.410		
12,800.00	7,730.00	5,050.00	5,050.00	97.64	87.22	2.75	-6,842.04	4,364.48	5,724.32	5,560.68	163.64	34.981		
12,900.00	7,730.00	5,050.00	5,050.00	97.85	87.22	2.75	-6,842.04	4,364.48	5,635.98	5,472.88	163.10	34.556		
13,000.00	7,730.00	5,050.00	5,050.00	98.09	87.22	2.75	-6,842.04	4,364.48	5,548.03	5,385.49	162.54	34.134		
13,100.00	7,730.00	5,050.00	5,050.00	98.35	87.22	2.75	-6,842.04	4,364.48	5,460.49	5,298.54	161.95	33.716		
13,200.00	7,730.00	5,050.00	5,050.00	98.65	87.22	2.75	-6,842.04	4,364.48	5,373.39	5,212.04	161.35	33.303		
13,300.00	7,730.00	5,050.00	5,050.00	98.98	87.22	2.75	-6,842.04	4,364.48	5,286.75	5,126.02	160.72	32.894		
13,400.00	7,730.00	5,050.00	5,050.00	99.34	87.22	2.75	-6,842.04	4,364.48	5,200.58	5,040.51	160.07	32.489		
13,500.00	7,730.00	5,050.00	5,050.00	99.74	87.22	2.75	-6,842.04	4,364.48	5,114.92	4,955.52	159.40	32.089		
13,600.00	7,730.00	5,050.00	5,050.00	100.17	87.22	2.75	-6,842.04	4,364.48	5,029.79	4,871.09	158.69	31.695		
13,700.00	7,730.00	5,050.00	5,050.00	100.65	87.22	2.75	-6,842.04	4,364.48	4,945.21	4,787.25	157.96	31.306		
13,800.00	7,730.00	5,050.00	5,050.00	101.16	87.22	2.75	-6,842.04	4,364.48	4,861.22	4,704.02	157.21	30.923		
13,900.00	7,730.00	5,050.00	5,050.00	101.71	87.22	2.75	-6,842.04	4,364.48	4,777.85	4,621.43	156.42	30.545		
14,000.00	7,730.00	5,050.00	5,050.00	102.30	87.22	2.75	-6,842.04	4,364.48	4,695.13	4,539.52	155.60	30.174		
14,100.00	7,730.00	5,050.00	5,050.00	102.93	87.22	2.75	-6,842.04	4,364.48	4,613.09	4,458.34	154.75	29.810		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)						
14,200.00	7,730.00	5,050.00	5,050.00	103.60	87.22	2.75	-6,842.04	4,364.48	4,531.77	4,377.90	153.87	29.452		
14,300.00	7,730.00	5,050.00	5,050.00	104.32	87.22	2.75	-6,842.04	4,364.48	4,451.21	4,298.26	152.95	29.103		
14,400.00	7,730.00	5,050.00	5,050.00	105.07	87.22	2.75	-6,842.04	4,364.48	4,371.46	4,219.46	151.99	28.761		
14,500.00	7,730.00	5,050.00	5,050.00	105.86	87.22	2.75	-6,842.04	4,364.48	4,292.55	4,141.55	151.00	28.427		
14,600.00	7,730.00	5,050.00	5,050.00	106.70	87.22	2.75	-6,842.04	4,364.48	4,214.54	4,064.57	149.97	28.102		
14,700.00	7,730.00	5,050.00	5,050.00	107.57	87.22	2.75	-6,842.04	4,364.48	4,137.48	3,988.58	148.90	27.786		
14,800.00	7,730.00	5,050.00	5,050.00	108.48	87.22	2.75	-6,842.04	4,364.48	4,061.41	3,913.62	147.79	27.481		
14,900.00	7,730.00	5,050.00	5,050.00	109.43	87.22	2.75	-6,842.04	4,364.48	3,986.41	3,839.77	146.64	27.185		
15,000.00	7,730.00	5,050.00	5,050.00	110.42	87.22	2.75	-6,842.04	4,364.48	3,912.52	3,767.08	145.44	26.901		
15,100.00	7,730.00	5,050.00	5,050.00	111.43	87.22	2.75	-6,842.04	4,364.48	3,839.81	3,695.61	144.20	26.628		
15,200.00	7,730.00	5,050.00	5,050.00	112.49	87.22	2.75	-6,842.04	4,364.48	3,768.36	3,625.44	142.92	26.367		
15,300.00	7,730.00	5,050.00	5,050.00	113.57	87.22	2.75	-6,842.04	4,364.48	3,698.23	3,556.64	141.59	26.119		
15,400.00	7,730.00	5,050.00	5,050.00	114.68	87.22	2.75	-6,842.04	4,364.48	3,629.50	3,489.28	140.22	25.885		
15,500.00	7,730.00	5,050.00	5,050.00	115.82	87.22	2.75	-6,842.04	4,364.48	3,562.25	3,423.45	138.80	25.665		
15,600.00	7,730.00	5,050.00	5,050.00	116.99	87.22	2.75	-6,842.04	4,364.48	3,496.57	3,359.23	137.33	25.461		
15,700.00	7,730.00	5,050.00	5,050.00	118.19	87.22	2.75	-6,842.04	4,364.48	3,432.54	3,296.72	135.82	25.272		
15,800.00	7,730.00	5,050.00	5,050.00	119.41	87.22	2.75	-6,842.04	4,364.48	3,370.27	3,235.99	134.27	25.100		
15,900.00	7,730.00	5,050.00	5,050.00	120.65	87.22	2.75	-6,842.04	4,364.48	3,309.84	3,177.16	132.68	24.946		
16,000.00	7,730.00	5,050.00	5,050.00	121.91	87.22	2.75	-6,842.04	4,364.48	3,251.37	3,120.32	131.05	24.810		
16,100.00	7,730.00	5,050.00	5,050.00	123.20	87.22	2.75	-6,842.04	4,364.48	3,194.96	3,065.58	129.39	24.693		
16,200.00	7,730.00	5,050.00	5,050.00	124.50	87.22	2.75	-6,842.04	4,364.48	3,140.72	3,013.03	127.69	24.597		
16,300.00	7,730.00	5,050.00	5,050.00	125.82	87.22	2.75	-6,842.04	4,364.48	3,088.77	2,962.81	125.96	24.521		
16,400.00	7,730.00	5,050.00	5,050.00	127.16	87.22	2.75	-6,842.04	4,364.48	3,039.22	2,915.00	124.22	24.467		
16,500.00	7,730.00	5,050.00	5,050.00	128.52	87.22	2.75	-6,842.04	4,364.48	2,992.19	2,869.74	122.45	24.435		
16,600.00	7,730.00	5,050.00	5,050.00	129.89	87.22	2.75	-6,842.04	4,364.48	2,947.81	2,827.13	120.68	24.426		
16,700.00	7,730.00	5,050.00	5,050.00	131.27	87.22	2.75	-6,842.04	4,364.48	2,906.19	2,787.28	118.91	24.439		
16,800.00	7,730.00	5,050.00	5,050.00	132.67	87.22	2.75	-6,842.04	4,364.48	2,867.46	2,750.30	117.16	24.475		
16,900.00	7,730.00	5,050.00	5,050.00	134.09	87.22	2.75	-6,842.04	4,364.48	2,831.73	2,716.30	115.43	24.532		
17,000.00	7,730.00	5,050.00	5,050.00	135.51	87.22	2.75	-6,842.04	4,364.48	2,799.11	2,685.37	113.74	24.609		
17,100.00	7,730.00	5,050.00	5,050.00	136.95	87.22	2.75	-6,842.04	4,364.48	2,769.73	2,657.61	112.12	24.703		
17,200.00	7,730.00	5,050.00	5,050.00	138.40	87.22	2.75	-6,842.04	4,364.48	2,743.68	2,633.08	110.60	24.808		
17,300.00	7,730.00	5,050.00	5,050.00	139.85	87.22	2.75	-6,842.04	4,364.48	2,721.05	2,611.85	109.20	24.917		
17,400.00	7,730.00	5,050.00	5,050.00	141.32	87.22	2.75	-6,842.04	4,364.48	2,701.94	2,593.94	108.00	25.019		
17,500.00	7,730.00	5,050.00	5,050.00	142.80	87.22	2.75	-6,842.04	4,364.48	2,686.42	2,579.37	107.05	25.096		
17,600.00	7,730.00	5,050.00	5,050.00	144.28	87.22	2.75	-6,842.04	4,364.48	2,674.55	2,568.11	106.44	25.128		
17,700.00	7,730.00	5,050.00	5,050.00	145.78	87.22	2.75	-6,842.04	4,364.48	2,666.38	2,560.09	106.28	25.087		
17,800.00	7,730.00	5,050.00	5,050.00	147.28	87.22	2.75	-6,842.04	4,364.48	2,661.94	2,555.25	106.69	24.951		
17,868.20	7,730.00	5,050.00	5,050.00	148.31	87.22	2.75	-6,842.04	4,364.48	2,661.07	2,553.74	107.32	24.795 CC		
17,900.00	7,730.00	5,050.00	5,050.00	148.79	87.22	2.75	-6,842.04	4,364.48	2,661.26	2,553.53	107.72	24.704 ES		
18,000.00	7,730.00	5,050.00	5,050.00	150.31	87.22	2.75	-6,842.04	4,364.48	2,664.33	2,554.93	109.40	24.355		
18,100.00	7,730.00	5,050.00	5,050.00	151.83	87.22	2.75	-6,842.04	4,364.48	2,671.14	2,559.51	111.63	23.928		
18,200.00	7,730.00	5,050.00	5,050.00	153.37	87.22	2.75	-6,842.04	4,364.48	2,681.67	2,567.36	114.32	23.458		
18,300.00	7,730.00	5,050.00	5,050.00	154.90	87.22	2.75	-6,842.04	4,364.48	2,695.87	2,578.55	117.32	22.979		
18,400.00	7,730.00	5,050.00	5,050.00	156.45	87.22	2.75	-6,842.04	4,364.48	2,713.68	2,593.16	120.52	22.516		
18,500.00	7,730.00	5,050.00	5,050.00	158.00	87.22	2.75	-6,842.04	4,364.48	2,735.04	2,611.20	123.85	22.084		
18,600.00	7,730.00	5,050.00	5,050.00	159.55	87.22	2.75	-6,842.04	4,364.48	2,759.86	2,632.65	127.21	21.695		
18,700.00	7,730.00	5,050.00	5,050.00	161.11	87.22	2.75	-6,842.04	4,364.48	2,788.04	2,657.48	130.56	21.354		
18,800.00	7,730.00	5,050.00	5,050.00	162.68	87.22	2.75	-6,842.04	4,364.48	2,819.49	2,685.62	133.87	21.061		
18,900.00	7,730.00	5,050.00	5,050.00	164.25	87.22	2.75	-6,842.04	4,364.48	2,854.10	2,717.00	137.10	20.817		
19,000.00	7,730.00	5,050.00	5,050.00	165.83	87.22	2.75	-6,842.04	4,364.48	2,891.76	2,751.52	140.23	20.621		
19,100.00	7,730.00	5,050.00	5,050.00	167.41	87.22	2.75	-6,842.04	4,364.48	2,932.34	2,789.08	143.25	20.469		
19,200.00	7,730.00	5,050.00	5,050.00	168.99	87.22	2.75	-6,842.04	4,364.48	2,975.73	2,829.58	146.15	20.361		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 1 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.00	7,730.00	5,050.00	5,050.00	170.58	87.22	2.75	-6,842.04	4,364.48	3,021.81	2,872.89	148.92	20.292	
19,400.00	7,730.00	5,050.00	5,050.00	172.17	87.22	2.75	-6,842.04	4,364.48	3,070.46	2,918.90	151.55	20.260	
19,430.54	7,730.00	5,050.00	5,050.00	172.66	87.22	2.75	-6,842.04	4,364.48	3,085.80	2,933.47	152.33	20.257 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	151.99	-8,182.26	4,352.39	9,267.88					
100.00	100.00	69.00	69.00	0.13	0.57	151.99	-8,182.26	4,352.39	9,267.83	9,267.13	0.71	N/A		
200.00	200.00	169.00	169.00	0.49	2.03	151.99	-8,182.26	4,352.39	9,267.83	9,265.31	2.53	3,668.673		
300.00	300.00	269.00	269.00	0.85	3.78	151.99	-8,182.26	4,352.39	9,267.83	9,263.20	4.63	2,001.688		
400.00	400.00	369.00	369.00	1.21	5.52	151.99	-8,182.26	4,352.39	9,267.83	9,261.10	6.73	1,376.313		
500.00	500.00	469.00	469.00	1.57	7.27	151.99	-8,182.26	4,352.39	9,267.83	9,258.99	8.84	1,048.681		
600.00	599.98	568.98	568.98	1.92	9.01	86.65	-8,182.26	4,352.39	9,267.73	9,256.79	10.94	847.406		
700.00	699.84	668.84	668.84	2.28	10.76	86.69	-8,182.26	4,352.39	9,267.43	9,254.39	13.03	711.053		
800.00	799.45	768.45	768.45	2.64	12.50	86.75	-8,182.26	4,352.39	9,266.93	9,251.79	15.13	612.292		
900.00	898.70	867.70	867.70	3.02	14.23	86.84	-8,182.26	4,352.39	9,266.24	9,249.00	17.24	537.371		
1,000.00	997.47	966.47	966.47	3.41	15.95	86.95	-8,182.26	4,352.39	9,265.38	9,246.02	19.36	478.497		
1,100.00	1,095.62	1,064.62	1,064.62	3.84	17.66	87.09	-8,182.26	4,352.39	9,264.37	9,242.87	21.50	430.933		
1,200.00	1,193.06	1,162.06	1,162.06	4.29	19.37	87.25	-8,182.26	4,352.39	9,263.23	9,239.58	23.65	391.642		
1,300.00	1,289.64	1,258.64	1,258.64	4.78	21.05	87.43	-8,182.26	4,352.39	9,261.99	9,236.16	25.83	358.588		
1,400.00	1,385.27	1,354.27	1,354.27	5.32	22.72	87.63	-8,182.26	4,352.39	9,260.67	9,232.64	28.03	330.359		
1,500.00	1,479.82	1,448.82	1,448.82	5.90	24.37	87.84	-8,182.26	4,352.39	9,259.31	9,229.05	30.26	305.945		
1,600.00	1,573.17	1,542.17	1,542.17	6.53	26.00	88.08	-8,182.26	4,352.39	9,257.94	9,225.42	32.53	284.604		
1,700.00	1,665.21	1,634.21	1,634.21	7.23	27.61	88.33	-8,182.26	4,352.39	9,256.61	9,221.79	34.83	265.781		
1,800.00	1,755.84	1,724.84	1,724.84	7.98	29.19	88.59	-8,182.26	4,352.39	9,255.36	9,218.20	37.16	249.051		
1,900.00	1,844.94	1,813.94	1,813.94	8.80	30.74	88.86	-8,182.26	4,352.39	9,254.23	9,214.70	39.53	234.082		
2,000.00	1,932.39	1,901.39	1,901.39	9.68	32.27	89.14	-8,182.26	4,352.39	9,253.27	9,211.32	41.94	220.613		
2,100.00	2,018.11	1,987.11	1,987.11	10.63	33.77	89.43	-8,182.26	4,352.39	9,252.52	9,208.13	44.39	208.434		
2,200.00	2,101.97	2,070.97	2,070.97	11.65	35.23	89.73	-8,182.26	4,352.39	9,252.05	9,205.17	46.88	197.375		
2,293.54	2,178.65	2,147.65	2,147.65	12.67	36.57	90.00	-8,182.26	4,352.39	9,251.89	9,202.66	49.24	187.910		
2,300.00	2,183.88	2,152.88	2,152.88	12.74	36.66	90.02	-8,182.26	4,352.39	9,251.89	9,202.49	49.40	187.294		
2,400.00	2,263.74	2,232.74	2,232.74	13.90	38.05	90.31	-8,182.26	4,352.39	9,252.11	9,200.16	51.96	178.075		
2,431.61	2,288.54	2,257.54	2,257.54	14.29	38.49	90.40	-8,182.26	4,352.39	9,252.27	9,199.50	52.77	175.328		
2,500.00	2,341.97	2,310.97	2,310.97	15.13	39.42	90.61	-8,182.26	4,352.39	9,252.75	9,198.21	54.54	169.638		
2,600.00	2,420.08	2,389.08	2,389.08	16.37	40.78	90.91	-8,182.26	4,352.39	9,253.82	9,196.66	57.15	161.919		
2,700.00	2,498.20	2,467.20	2,467.20	17.63	42.14	91.21	-8,182.26	4,352.39	9,255.30	9,195.53	59.77	154.849		
2,800.00	2,576.32	2,545.32	2,545.32	18.89	43.51	91.52	-8,182.26	4,352.39	9,257.20	9,194.80	62.40	148.356		
2,900.00	2,654.43	2,623.43	2,623.43	20.17	44.87	91.82	-8,182.26	4,352.39	9,259.53	9,194.49	65.04	142.378		
3,000.00	2,732.55	2,701.55	2,701.55	21.45	46.23	92.12	-8,182.26	4,352.39	9,262.27	9,194.60	67.68	136.860		
3,100.00	2,810.67	2,779.67	2,779.67	22.74	47.60	92.42	-8,182.26	4,352.39	9,265.44	9,195.12	70.32	131.754		
3,200.00	2,888.78	2,857.78	2,857.78	24.03	48.96	92.72	-8,182.26	4,352.39	9,269.02	9,196.05	72.97	127.019		
3,300.00	2,966.90	2,935.90	2,935.90	25.33	50.32	93.02	-8,182.26	4,352.39	9,273.03	9,197.40	75.63	122.617		
3,400.00	3,045.02	3,014.02	3,014.02	26.63	51.69	93.33	-8,182.26	4,352.39	9,277.45	9,199.17	78.28	118.517		
3,500.00	3,123.13	3,107.87	3,107.87	27.94	53.33	93.63	-8,182.26	4,352.39	9,282.29	9,201.08	81.21	114.301		
3,600.00	3,201.25	3,170.25	3,170.25	29.24	54.42	93.93	-8,182.26	4,352.39	9,287.54	9,203.95	83.59	111.108		
3,700.00	3,279.37	3,248.37	3,248.37	30.55	55.78	94.23	-8,182.26	4,352.39	9,293.22	9,206.97	86.25	107.753		
3,800.00	3,357.49	3,326.49	3,326.49	31.86	57.14	94.53	-8,182.26	4,352.39	9,299.31	9,210.41	88.90	104.603		
3,900.00	3,435.60	3,404.60	3,404.60	33.18	58.51	94.83	-8,182.26	4,352.39	9,305.81	9,214.26	91.55	101.642		
4,000.00	3,513.72	3,482.72	3,482.72	34.49	59.87	95.13	-8,182.26	4,352.39	9,312.73	9,218.52	94.21	98.853		
4,100.00	3,591.84	3,560.84	3,560.84	35.81	61.23	95.43	-8,182.26	4,352.39	9,320.06	9,223.20	96.86	96.222		
4,200.00	3,669.95	3,638.95	3,638.95	37.12	62.60	95.73	-8,182.26	4,352.39	9,327.80	9,228.29	99.51	93.738		
4,300.00	3,748.07	3,717.07	3,717.07	38.44	63.96	96.02	-8,182.26	4,352.39	9,335.96	9,233.80	102.16	91.388		
4,400.00	3,826.19	3,804.81	3,795.19	39.76	65.49	96.32	-8,182.26	4,352.39	9,344.52	9,239.55	104.97	89.021		
4,500.00	3,904.30	3,873.30	3,873.30	41.08	66.69	96.62	-8,182.26	4,352.39	9,353.49	9,246.05	107.45	87.054		
4,600.00	3,982.42	3,951.42	3,951.42	42.40	68.05	96.92	-8,182.26	4,352.39	9,362.87	9,252.79	110.09	85.051		
4,700.00	4,060.54	4,029.54	4,029.54	43.72	69.41	97.22	-8,182.26	4,352.39	9,372.66	9,259.94	112.72	83.148		
4,800.00	4,138.66	4,107.66	4,107.66	45.05	70.78	97.51	-8,182.26	4,352.39	9,382.85	9,267.50	115.36	81.338		
4,900.00	4,216.77	4,185.77	4,185.77	46.37	72.14	97.81	-8,182.26	4,352.39	9,393.45	9,275.46	117.99	79.614		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,263.89	4,263.89	47.69	73.50	98.11	-8,182.26	4,352.39	9,404.45	9,283.84	120.61	77.971		
5,100.00	4,373.01	4,342.01	4,342.01	49.02	74.87	98.40	-8,182.26	4,352.39	9,415.85	9,292.61	123.24	76.404		
5,200.00	4,451.12	4,420.12	4,420.12	50.34	76.23	98.70	-8,182.26	4,352.39	9,427.65	9,301.79	125.86	74.907		
5,300.00	4,529.24	4,501.76	4,498.24	51.67	77.65	98.99	-8,182.26	4,352.39	9,439.85	9,311.31	128.53	73.442		
5,400.00	4,607.36	4,576.36	4,576.36	52.99	78.96	99.29	-8,182.26	4,352.39	9,452.44	9,321.36	131.08	72.110		
5,500.00	4,685.47	4,654.47	4,654.47	54.32	80.32	99.58	-8,182.26	4,352.39	9,465.43	9,331.74	133.69	70.800		
5,600.00	4,763.59	4,732.59	4,732.59	55.64	81.68	99.87	-8,182.26	4,352.39	9,478.81	9,342.52	136.29	69.547		
5,700.00	4,841.71	4,810.71	4,810.71	56.97	83.05	100.17	-8,182.26	4,352.39	9,492.59	9,353.70	138.89	68.345		
5,800.00	4,919.83	4,888.83	4,888.83	58.30	84.41	100.46	-8,182.26	4,352.39	9,506.75	9,365.27	141.49	67.192		
5,900.00	4,997.94	4,966.94	4,966.94	59.62	85.77	100.75	-8,182.26	4,352.39	9,521.31	9,377.23	144.08	66.086		
6,000.00	5,076.06	5,045.06	5,045.06	60.95	87.14	101.04	-8,182.26	4,352.39	9,536.25	9,389.59	146.66	65.023		
6,100.00	5,154.18	5,048.00	5,048.00	62.28	87.19	101.05	-8,182.26	4,352.39	9,551.87	9,403.96	147.91	64.580		
6,200.00	5,232.29	5,048.00	5,048.00	63.61	87.19	101.05	-8,182.26	4,352.39	9,568.50	9,419.41	149.09	64.180		
6,300.00	5,310.41	5,048.00	5,048.00	64.93	87.19	101.05	-8,182.26	4,352.39	9,586.16	9,435.90	150.26	63.799		
6,400.00	5,388.53	5,048.00	5,048.00	66.26	87.19	101.05	-8,182.26	4,352.39	9,604.82	9,453.42	151.40	63.438		
6,500.00	5,466.64	5,048.00	5,048.00	67.59	87.19	101.05	-8,182.26	4,352.39	9,624.49	9,471.95	152.54	63.096		
6,600.00	5,544.76	5,048.00	5,048.00	68.92	87.19	101.05	-8,182.26	4,352.39	9,645.15	9,491.49	153.65	62.772		
6,700.00	5,622.88	5,048.00	5,048.00	70.25	87.19	101.05	-8,182.26	4,352.39	9,666.80	9,512.05	154.75	62.465		
6,800.00	5,701.00	5,048.00	5,048.00	71.58	87.19	101.05	-8,182.26	4,352.39	9,689.44	9,533.60	155.84	62.176		
6,900.00	5,779.11	5,048.00	5,048.00	72.91	87.19	101.05	-8,182.26	4,352.39	9,713.05	9,556.14	156.90	61.904		
7,000.00	5,857.23	5,048.00	5,048.00	74.23	87.19	101.05	-8,182.26	4,352.39	9,737.63	9,579.68	157.95	61.649		
7,100.00	5,935.35	5,048.00	5,048.00	75.56	87.19	101.05	-8,182.26	4,352.39	9,763.18	9,604.19	158.99	61.409		
7,200.00	6,013.46	5,048.00	5,048.00	76.89	87.19	101.05	-8,182.26	4,352.39	9,789.68	9,629.68	160.00	61.185		
7,300.00	6,091.58	5,048.00	5,048.00	78.22	87.19	101.05	-8,182.26	4,352.39	9,817.12	9,656.12	161.00	60.976		
7,400.00	6,169.70	5,048.00	5,048.00	79.55	87.19	101.05	-8,182.26	4,352.39	9,845.51	9,683.53	161.98	60.782		
7,500.00	6,247.81	5,048.00	5,048.00	80.88	87.19	101.05	-8,182.26	4,352.39	9,874.83	9,711.88	162.94	60.603		
7,600.00	6,325.93	5,048.00	5,048.00	82.21	87.19	101.05	-8,182.26	4,352.39	9,905.07	9,741.18	163.89	60.437		
7,700.00	6,404.05	5,048.00	5,048.00	83.54	87.19	101.05	-8,182.26	4,352.39	9,936.22	9,771.40	164.82	60.286		
7,800.00	6,482.17	5,048.00	5,048.00	84.87	87.19	101.05	-8,182.26	4,352.39	9,968.28	9,802.55	165.73	60.147		
9,600.00	7,722.96	5,048.00	5,048.00	101.20	87.19	15.78	-8,182.26	4,352.39	9,965.94	9,789.51	176.43	56.486		
9,650.00	7,728.24	5,048.00	5,048.00	101.06	87.19	10.66	-8,182.26	4,352.39	9,919.63	9,743.25	176.38	56.242		
9,699.97	7,730.00	5,048.00	5,048.00	100.90	87.19	2.92	-8,182.26	4,352.39	9,872.04	9,695.73	176.31	55.993		
9,800.00	7,730.00	5,048.00	5,048.00	100.56	87.19	2.92	-8,182.26	4,352.39	9,775.73	9,599.56	176.17	55.491		
9,900.00	7,730.00	5,048.00	5,048.00	100.24	87.19	2.92	-8,182.26	4,352.39	9,679.53	9,503.50	176.02	54.990		
10,000.00	7,730.00	5,048.00	5,048.00	99.93	87.19	2.92	-8,182.26	4,352.39	9,583.40	9,407.52	175.88	54.490		
10,100.00	7,730.00	5,048.00	5,048.00	99.64	87.19	2.92	-8,182.26	4,352.39	9,487.35	9,311.63	175.72	53.990		
10,200.00	7,730.00	5,048.00	5,048.00	99.36	87.19	2.92	-8,182.26	4,352.39	9,391.39	9,215.82	175.57	53.491		
10,300.00	7,730.00	5,048.00	5,048.00	99.09	87.19	2.92	-8,182.26	4,352.39	9,295.51	9,120.10	175.41	52.992		
10,400.00	7,730.00	5,048.00	5,048.00	98.84	87.19	2.92	-8,182.26	4,352.39	9,199.72	9,024.47	175.25	52.494		
10,500.00	7,730.00	5,048.00	5,048.00	98.61	87.19	2.92	-8,182.26	4,352.39	9,104.02	8,928.93	175.09	51.997		
10,600.00	7,730.00	5,048.00	5,048.00	98.39	87.19	2.92	-8,182.26	4,352.39	9,008.41	8,833.49	174.92	51.501		
10,700.00	7,730.00	5,048.00	5,048.00	98.18	87.19	2.92	-8,182.26	4,352.39	8,912.90	8,738.15	174.75	51.005		
10,800.00	7,730.00	5,048.00	5,048.00	97.99	87.19	2.92	-8,182.26	4,352.39	8,817.49	8,642.91	174.57	50.510		
10,900.00	7,730.00	5,048.00	5,048.00	97.81	87.19	2.92	-8,182.26	4,352.39	8,722.18	8,547.79	174.39	50.015		
11,000.00	7,730.00	5,048.00	5,048.00	97.64	87.19	2.92	-8,182.26	4,352.39	8,626.97	8,452.77	174.21	49.522		
11,100.00	7,730.00	5,048.00	5,048.00	97.50	87.19	2.92	-8,182.26	4,352.39	8,531.88	8,357.86	174.02	49.029		
11,200.00	7,730.00	5,048.00	5,048.00	97.36	87.19	2.92	-8,182.26	4,352.39	8,436.90	8,263.08	173.82	48.537		
11,300.00	7,730.00	5,048.00	5,048.00	97.24	87.19	2.92	-8,182.26	4,352.39	8,342.04	8,168.41	173.62	48.046		
11,400.00	7,730.00	5,048.00	5,048.00	97.14	87.19	2.92	-8,182.26	4,352.39	8,247.30	8,073.88	173.42	47.557		
11,500.00	7,730.00	5,048.00	5,048.00	97.06	87.19	2.92	-8,182.26	4,352.39	8,152.68	7,979.47	173.21	47.068		
11,600.00	7,730.00	5,048.00	5,048.00	96.98	87.19	2.92	-8,182.26	4,352.39	8,058.20	7,885.20	173.00	46.580		
11,700.00	7,730.00	5,048.00	5,048.00	96.93	87.19	2.92	-8,182.26	4,352.39	7,963.85	7,791.07	172.78	46.093		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,800.00	7,730.00	5,048.00	5,048.00	96.90	87.19	2.92	-8,182.26	4,352.39	7,869.63	7,697.08	172.55	45.607		
11,900.00	7,730.00	5,048.00	5,048.00	96.88	87.19	2.92	-8,182.26	4,352.39	7,775.57	7,603.25	172.32	45.122		
12,000.00	7,730.00	5,048.00	5,048.00	96.88	87.19	2.92	-8,182.26	4,352.39	7,681.65	7,509.57	172.08	44.639		
12,100.00	7,730.00	5,048.00	5,048.00	96.90	87.19	2.92	-8,182.26	4,352.39	7,587.89	7,416.05	171.84	44.157		
12,200.00	7,730.00	5,048.00	5,048.00	96.94	87.19	2.92	-8,182.26	4,352.39	7,494.29	7,322.70	171.59	43.676		
12,300.00	7,730.00	5,048.00	5,048.00	97.00	87.19	2.92	-8,182.26	4,352.39	7,400.86	7,229.53	171.33	43.196		
12,400.00	7,730.00	5,048.00	5,048.00	97.08	87.19	2.92	-8,182.26	4,352.39	7,307.60	7,136.53	171.07	42.718		
12,500.00	7,730.00	5,048.00	5,048.00	97.18	87.19	2.92	-8,182.26	4,352.39	7,214.52	7,043.73	170.79	42.241		
12,600.00	7,730.00	5,048.00	5,048.00	97.31	87.19	2.92	-8,182.26	4,352.39	7,121.63	6,951.12	170.51	41.766		
12,700.00	7,730.00	5,048.00	5,048.00	97.46	87.19	2.92	-8,182.26	4,352.39	7,028.94	6,858.71	170.22	41.292		
12,800.00	7,730.00	5,048.00	5,048.00	97.64	87.19	2.92	-8,182.26	4,352.39	6,936.44	6,766.52	169.93	40.820		
12,900.00	7,730.00	5,048.00	5,048.00	97.85	87.19	2.92	-8,182.26	4,352.39	6,844.16	6,674.54	169.62	40.350		
13,000.00	7,730.00	5,048.00	5,048.00	98.09	87.19	2.92	-8,182.26	4,352.39	6,752.10	6,582.80	169.30	39.882		
13,100.00	7,730.00	5,048.00	5,048.00	98.35	87.19	2.92	-8,182.26	4,352.39	6,660.27	6,491.29	168.98	39.415		
13,200.00	7,730.00	5,048.00	5,048.00	98.65	87.19	2.92	-8,182.26	4,352.39	6,568.68	6,400.03	168.64	38.950		
13,300.00	7,730.00	5,048.00	5,048.00	98.98	87.19	2.92	-8,182.26	4,352.39	6,477.33	6,309.04	168.30	38.488		
13,400.00	7,730.00	5,048.00	5,048.00	99.34	87.19	2.92	-8,182.26	4,352.39	6,386.25	6,218.31	167.94	38.027		
13,500.00	7,730.00	5,048.00	5,048.00	99.74	87.19	2.92	-8,182.26	4,352.39	6,295.43	6,127.86	167.57	37.569		
13,600.00	7,730.00	5,048.00	5,048.00	100.17	87.19	2.92	-8,182.26	4,352.39	6,204.90	6,037.71	167.19	37.113		
13,700.00	7,730.00	5,048.00	5,048.00	100.65	87.19	2.92	-8,182.26	4,352.39	6,114.66	5,947.86	166.80	36.660		
13,800.00	7,730.00	5,048.00	5,048.00	101.16	87.19	2.92	-8,182.26	4,352.39	6,024.73	5,858.34	166.39	36.209		
13,900.00	7,730.00	5,048.00	5,048.00	101.71	87.19	2.92	-8,182.26	4,352.39	5,935.12	5,769.15	165.97	35.760		
14,000.00	7,730.00	5,048.00	5,048.00	102.30	87.19	2.92	-8,182.26	4,352.39	5,845.85	5,680.32	165.54	35.315		
14,100.00	7,730.00	5,048.00	5,048.00	102.93	87.19	2.92	-8,182.26	4,352.39	5,756.94	5,591.85	165.09	34.872		
14,200.00	7,730.00	5,048.00	5,048.00	103.60	87.19	2.92	-8,182.26	4,352.39	5,668.39	5,503.76	164.62	34.433		
14,300.00	7,730.00	5,048.00	5,048.00	104.32	87.19	2.92	-8,182.26	4,352.39	5,580.23	5,416.08	164.14	33.996		
14,400.00	7,730.00	5,048.00	5,048.00	105.07	87.19	2.92	-8,182.26	4,352.39	5,492.47	5,328.83	163.65	33.563		
14,500.00	7,730.00	5,048.00	5,048.00	105.86	87.19	2.92	-8,182.26	4,352.39	5,405.14	5,242.01	163.13	33.134		
14,600.00	7,730.00	5,048.00	5,048.00	106.70	87.19	2.92	-8,182.26	4,352.39	5,318.26	5,155.66	162.60	32.708		
14,700.00	7,730.00	5,048.00	5,048.00	107.57	87.19	2.92	-8,182.26	4,352.39	5,231.84	5,069.80	162.05	32.286		
14,800.00	7,730.00	5,048.00	5,048.00	108.48	87.19	2.92	-8,182.26	4,352.39	5,145.92	4,984.44	161.47	31.868		
14,900.00	7,730.00	5,048.00	5,048.00	109.43	87.19	2.92	-8,182.26	4,352.39	5,060.51	4,899.63	160.88	31.455		
15,000.00	7,730.00	5,048.00	5,048.00	110.42	87.19	2.92	-8,182.26	4,352.39	4,975.65	4,815.38	160.27	31.046		
15,100.00	7,730.00	5,048.00	5,048.00	111.43	87.19	2.92	-8,182.26	4,352.39	4,891.36	4,731.73	159.63	30.641		
15,200.00	7,730.00	5,048.00	5,048.00	112.49	87.19	2.92	-8,182.26	4,352.39	4,807.67	4,648.70	158.97	30.242		
15,300.00	7,730.00	5,048.00	5,048.00	113.57	87.19	2.92	-8,182.26	4,352.39	4,724.62	4,566.33	158.29	29.848		
15,400.00	7,730.00	5,048.00	5,048.00	114.68	87.19	2.92	-8,182.26	4,352.39	4,642.24	4,484.65	157.58	29.459		
15,500.00	7,730.00	5,048.00	5,048.00	115.82	87.19	2.92	-8,182.26	4,352.39	4,560.55	4,403.71	156.85	29.076		
15,600.00	7,730.00	5,048.00	5,048.00	116.99	87.19	2.92	-8,182.26	4,352.39	4,479.62	4,323.53	156.09	28.699		
15,700.00	7,730.00	5,048.00	5,048.00	118.19	87.19	2.92	-8,182.26	4,352.39	4,399.46	4,244.16	155.30	28.329		
15,800.00	7,730.00	5,048.00	5,048.00	119.41	87.19	2.92	-8,182.26	4,352.39	4,320.14	4,165.66	154.48	27.965		
15,900.00	7,730.00	5,048.00	5,048.00	120.65	87.19	2.92	-8,182.26	4,352.39	4,241.69	4,088.05	153.63	27.609		
16,000.00	7,730.00	5,048.00	5,048.00	121.91	87.19	2.92	-8,182.26	4,352.39	4,164.16	4,011.40	152.76	27.260		
16,100.00	7,730.00	5,048.00	5,048.00	123.20	87.19	2.92	-8,182.26	4,352.39	4,087.61	3,935.76	151.85	26.919		
16,200.00	7,730.00	5,048.00	5,048.00	124.50	87.19	2.92	-8,182.26	4,352.39	4,012.09	3,861.18	150.90	26.587		
16,300.00	7,730.00	5,048.00	5,048.00	125.82	87.19	2.92	-8,182.26	4,352.39	3,937.66	3,787.73	149.93	26.264		
16,400.00	7,730.00	5,048.00	5,048.00	127.16	87.19	2.92	-8,182.26	4,352.39	3,864.38	3,715.46	148.92	25.950		
16,500.00	7,730.00	5,048.00	5,048.00	128.52	87.19	2.92	-8,182.26	4,352.39	3,792.33	3,644.45	147.88	25.645		
16,600.00	7,730.00	5,048.00	5,048.00	129.89	87.19	2.92	-8,182.26	4,352.39	3,721.57	3,574.77	146.80	25.352		
16,700.00	7,730.00	5,048.00	5,048.00	131.27	87.19	2.92	-8,182.26	4,352.39	3,652.18	3,506.49	145.68	25.069		
16,800.00	7,730.00	5,048.00	5,048.00	132.67	87.19	2.92	-8,182.26	4,352.39	3,584.23	3,439.70	144.53	24.799		
16,900.00	7,730.00	5,048.00	5,048.00	134.09	87.19	2.92	-8,182.26	4,352.39	3,517.81	3,374.46	143.35	24.540		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - ABND VERT MANN 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,000.00	7,730.00	5,048.00	5,048.00	135.51	87.19	2.92	-8,182.26	4,352.39	3,453.02	3,310.89	142.13	24.295		
17,100.00	7,730.00	5,048.00	5,048.00	136.95	87.19	2.92	-8,182.26	4,352.39	3,389.93	3,249.06	140.87	24.064		
17,200.00	7,730.00	5,048.00	5,048.00	138.40	87.19	2.92	-8,182.26	4,352.39	3,328.65	3,189.07	139.58	23.847		
17,300.00	7,730.00	5,048.00	5,048.00	139.85	87.19	2.92	-8,182.26	4,352.39	3,269.29	3,131.03	138.26	23.646		
17,400.00	7,730.00	5,048.00	5,048.00	141.32	87.19	2.92	-8,182.26	4,352.39	3,211.94	3,075.04	136.90	23.462		
17,500.00	7,730.00	5,048.00	5,048.00	142.80	87.19	2.92	-8,182.26	4,352.39	3,156.72	3,021.20	135.51	23.294		
17,600.00	7,730.00	5,048.00	5,048.00	144.28	87.19	2.92	-8,182.26	4,352.39	3,103.74	2,969.64	134.10	23.145		
17,700.00	7,730.00	5,048.00	5,048.00	145.78	87.19	2.92	-8,182.26	4,352.39	3,053.11	2,920.45	132.66	23.015		
17,800.00	7,730.00	5,048.00	5,048.00	147.28	87.19	2.92	-8,182.26	4,352.39	3,004.96	2,873.77	131.20	22.904		
17,900.00	7,730.00	5,048.00	5,048.00	148.79	87.19	2.92	-8,182.26	4,352.39	2,959.41	2,829.69	129.72	22.814		
18,000.00	7,730.00	5,048.00	5,048.00	150.31	87.19	2.92	-8,182.26	4,352.39	2,916.58	2,788.35	128.23	22.745		
18,100.00	7,730.00	5,048.00	5,048.00	151.83	87.19	2.92	-8,182.26	4,352.39	2,876.59	2,749.85	126.73	22.698		
18,200.00	7,730.00	5,048.00	5,048.00	153.37	87.19	2.92	-8,182.26	4,352.39	2,839.55	2,714.31	125.24	22.672		
18,300.00	7,730.00	5,048.00	5,048.00	154.90	87.19	2.92	-8,182.26	4,352.39	2,805.60	2,681.82	123.77	22.667		
18,400.00	7,730.00	5,048.00	5,048.00	156.45	87.19	2.92	-8,182.26	4,352.39	2,774.83	2,652.49	122.34	22.681		
18,500.00	7,730.00	5,048.00	5,048.00	158.00	87.19	2.92	-8,182.26	4,352.39	2,747.36	2,626.39	120.97	22.712		
18,600.00	7,730.00	5,048.00	5,048.00	159.55	87.19	2.92	-8,182.26	4,352.39	2,723.29	2,603.60	119.68	22.754		
18,700.00	7,730.00	5,048.00	5,048.00	161.11	87.19	2.92	-8,182.26	4,352.39	2,702.70	2,584.17	118.54	22.800		
18,800.00	7,730.00	5,048.00	5,048.00	162.68	87.19	2.92	-8,182.26	4,352.39	2,685.69	2,568.10	117.59	22.840		
18,900.00	7,730.00	5,048.00	5,048.00	164.25	87.19	2.92	-8,182.26	4,352.39	2,672.31	2,555.39	116.92	22.857		
19,000.00	7,730.00	5,048.00	5,048.00	165.83	87.19	2.92	-8,182.26	4,352.39	2,662.62	2,546.00	116.62	22.831		
19,100.00	7,730.00	5,048.00	5,048.00	167.41	87.19	2.92	-8,182.26	4,352.39	2,656.66	2,539.84	116.82	22.742		
19,200.00	7,730.00	5,048.00	5,048.00	168.99	87.19	2.92	-8,182.26	4,352.39	2,654.46	2,536.87	117.59	22.573		
19,208.45	7,730.00	5,048.00	5,048.00	169.13	87.19	2.92	-8,182.26	4,352.39	2,654.45	2,536.76	117.69	22.555 CC, ES		
19,300.00	7,730.00	5,048.00	5,048.00	170.58	87.19	2.92	-8,182.26	4,352.39	2,656.03	2,537.04	118.98	22.323		
19,400.00	7,730.00	5,048.00	5,048.00	172.17	87.19	2.92	-8,182.26	4,352.39	2,661.35	2,540.40	120.95	22.004		
19,430.54	7,730.00	5,048.00	5,048.00	172.66	87.19	2.92	-8,182.26	4,352.39	2,663.72	2,542.07	121.65	21.897 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	142.49	-4,068.90	3,123.66	5,129.65					
100.00	100.00	111.47	111.47	0.13	0.20	142.49	-4,068.87	3,123.33	5,129.46	5,129.12	0.33	N/A		
200.00	200.00	235.31	235.31	0.49	0.41	142.50	-4,068.74	3,122.17	5,128.80	5,127.90	0.91	5,654.406		
300.00	300.00	359.13	359.11	0.85	0.63	142.51	-4,068.52	3,120.19	5,127.69	5,126.21	1.48	3,457.208		
400.00	400.00	482.92	482.87	1.21	0.85	142.54	-4,068.20	3,117.39	5,126.11	5,124.05	2.06	2,489.342		
500.00	500.00	606.67	606.56	1.57	1.07	142.57	-4,067.80	3,113.76	5,124.07	5,121.43	2.64	1,944.486		
600.00	599.98	661.94	661.82	1.92	1.37	77.28	-4,067.54	3,112.79	5,122.06	5,118.77	3.29	1,555.262		
700.00	699.84	732.00	731.88	2.28	1.62	77.36	-4,066.96	3,112.46	5,119.92	5,116.03	3.89	1,316.382		
800.00	799.45	793.44	793.31	2.64	1.82	77.45	-4,066.14	3,113.27	5,117.68	5,113.22	4.46	1,148.008		
900.00	898.70	872.14	871.96	3.02	2.09	77.58	-4,064.56	3,115.53	5,115.16	5,110.07	5.10	1,003.172		
1,000.00	997.47	1,070.15	1,069.54	3.41	2.78	77.85	-4,055.97	3,125.02	5,111.29	5,105.10	6.19	826.385		
1,100.00	1,095.62	1,135.74	1,134.90	3.84	3.01	78.03	-4,052.04	3,128.77	5,105.89	5,099.05	6.84	746.518		
1,200.00	1,193.06	1,196.77	1,195.68	4.29	3.24	78.23	-4,048.41	3,132.99	5,100.53	5,093.01	7.51	679.109		
1,300.00	1,289.64	1,369.36	1,367.08	4.78	3.89	78.63	-4,035.19	3,148.12	5,094.29	5,085.65	8.64	589.312		
1,400.00	1,385.27	1,483.14	1,479.50	5.32	4.34	78.96	-4,023.05	3,160.72	5,086.30	5,076.68	9.62	528.587		
1,500.00	1,479.82	1,551.00	1,546.30	5.90	4.62	79.24	-4,014.95	3,169.51	5,077.84	5,067.37	10.48	484.712		
1,600.00	1,573.17	1,599.11	1,593.56	6.53	4.82	79.49	-4,009.18	3,176.43	5,069.59	5,058.29	11.31	448.336		
1,700.00	1,665.21	1,644.95	1,638.50	7.23	5.02	79.75	-4,003.85	3,183.73	5,061.86	5,049.67	12.19	415.345		
1,800.00	1,755.84	1,840.07	1,829.08	7.98	5.90	80.39	-3,978.79	3,217.18	5,053.58	5,039.77	13.81	366.005		
1,900.00	1,844.94	1,900.00	2,063.23	8.80	6.19	81.32	-3,943.77	3,252.63	5,041.62	5,026.75	14.88	338.867		
2,000.00	1,932.39	2,130.91	2,113.72	9.68	7.25	81.75	-3,936.39	3,259.03	5,028.60	5,011.79	16.81	299.169		
2,100.00	2,018.11	2,163.00	2,145.27	10.63	7.39	82.13	-3,932.18	3,263.13	5,016.37	4,998.47	17.90	280.238		
2,200.00	2,101.97	2,225.62	2,206.87	11.65	7.67	82.63	-3,924.49	3,271.35	5,004.72	4,985.52	19.20	260.714		
2,300.00	2,183.88	2,290.81	2,271.00	12.74	7.97	83.16	-3,916.86	3,280.28	4,993.59	4,973.01	20.58	242.664		
2,400.00	2,263.74	2,365.14	2,344.03	13.90	8.31	83.76	-3,908.10	3,290.96	4,982.70	4,960.63	22.08	225.694		
2,431.61	2,288.54	2,387.79	2,366.28	14.29	8.41	83.95	-3,905.46	3,294.26	4,979.33	4,956.76	22.56	220.690		
2,500.00	2,341.97	2,438.08	2,415.70	15.13	8.64	84.22	-3,899.69	3,301.61	4,972.22	4,948.59	23.63	210.399		
2,600.00	2,420.08	2,525.46	2,501.59	16.37	9.05	84.69	-3,889.87	3,314.30	4,962.34	4,937.07	25.28	196.326		
2,700.00	2,498.20	2,635.88	2,609.92	17.63	9.56	85.28	-3,876.40	3,330.89	4,952.35	4,925.31	27.05	183.113		
2,800.00	2,576.32	2,705.63	2,678.25	18.89	9.89	85.65	-3,867.83	3,341.94	4,943.12	4,914.47	28.65	172.545		
2,900.00	2,654.43	2,804.02	2,774.56	20.17	10.36	86.17	-3,855.37	3,357.78	4,934.15	4,903.76	30.39	162.339		
3,000.00	2,732.55	2,867.14	2,836.51	21.45	10.66	86.51	-3,847.99	3,367.32	4,925.90	4,893.92	31.98	154.017		
3,100.00	2,810.67	2,948.34	2,916.34	22.74	11.04	86.96	-3,839.03	3,379.17	4,918.38	4,884.72	33.65	146.151		
3,200.00	2,888.78	3,080.96	3,046.56	24.03	11.66	87.68	-3,823.70	3,399.09	4,911.13	4,875.56	35.56	138.095		
3,300.00	2,966.90	3,170.58	3,134.44	25.33	12.09	88.16	-3,812.45	3,412.56	4,903.50	4,866.21	37.29	131.504		
3,400.00	3,045.02	3,210.00	3,173.13	26.63	12.27	88.38	-3,807.74	3,418.44	4,896.86	4,858.07	38.79	126.241		
3,500.00	3,123.13	3,268.98	3,231.03	27.94	12.55	88.70	-3,801.06	3,427.53	4,891.31	4,850.93	40.38	121.128		
3,600.00	3,201.25	3,297.00	3,258.51	29.24	12.68	88.85	-3,798.05	3,432.07	4,887.08	4,845.25	41.83	116.834		
3,700.00	3,279.37	3,355.19	3,315.58	30.55	12.96	89.17	-3,792.23	3,441.83	4,884.01	4,840.60	43.42	112.489		
3,800.00	3,357.49	3,402.12	3,361.62	31.86	13.18	89.42	-3,788.03	3,449.92	4,882.27	4,837.32	44.95	108.614		
3,900.00	3,435.60	3,460.11	3,418.53	33.18	13.45	89.74	-3,783.24	3,459.99	4,881.59	4,835.05	46.53	104.906		
4,000.00	3,513.72	3,810.30	3,763.11	34.49	15.06	91.70	-3,750.15	3,512.17	4,880.16	4,830.75	49.42	98.754		
4,100.00	3,591.84	3,867.53	3,819.57	35.81	15.31	92.03	-3,743.81	3,519.02	4,876.21	4,825.22	50.99	95.636		
4,200.00	3,669.95	3,928.61	3,879.88	37.12	15.59	92.39	-3,737.52	3,526.34	4,873.34	4,820.78	52.57	92.704		
4,300.00	3,748.07	4,022.67	3,972.73	38.44	16.00	92.94	-3,727.81	3,537.89	4,871.09	4,816.81	54.28	89.732		
4,400.00	3,826.19	4,083.00	4,032.23	39.76	16.27	93.29	-3,721.41	3,545.51	4,869.32	4,813.46	55.86	87.174		
4,500.00	3,904.30	4,140.26	4,088.66	41.08	16.53	93.62	-3,715.49	3,553.23	4,868.56	4,811.14	57.42	84.791		
4,504.80	3,908.05	4,142.29	4,090.66	41.14	16.54	93.63	-3,715.29	3,553.52	4,868.56	4,811.07	57.49	84.685		
4,600.00	3,982.42	4,270.13	4,216.25	42.40	17.14	94.34	-3,701.96	3,573.30	4,868.91	4,809.60	59.31	82.098		
4,605.50	3,986.72	4,605.50	4,180.38	42.47	18.72	94.14	-3,705.93	3,567.49	4,868.85	4,807.89	60.96	79.873		
4,700.00	4,060.54	4,313.29	4,258.67	43.72	17.34	94.58	-3,697.42	3,579.87	4,869.28	4,808.48	60.80	80.083		
4,800.00	4,138.66	4,367.30	4,311.91	45.05	17.59	94.89	-3,692.35	3,587.37	4,870.74	4,808.41	62.33	78.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	4,432.00	4,375.85	46.37	17.87	95.27	-3,687.01	3,595.63	4,873.27	4,809.38	63.89	76.271		
5,000.00	4,294.89	4,486.38	4,429.76	47.69	18.10	95.60	-3,683.14	3,601.71	4,876.79	4,811.41	65.39	74.584		
5,100.00	4,373.01	4,563.19	4,506.13	49.02	18.40	96.09	-3,678.58	3,608.41	4,881.20	4,814.26	66.95	72.912		
5,200.00	4,451.12	4,645.16	4,587.84	50.34	18.70	96.63	-3,674.37	3,613.43	4,886.20	4,817.71	68.50	71.335		
5,300.00	4,529.24	4,719.72	4,662.26	51.67	18.96	97.13	-3,671.10	3,616.54	4,891.97	4,821.98	69.99	69.892		
5,400.00	4,607.36	4,792.35	4,734.81	52.99	19.20	97.64	-3,668.34	3,618.43	4,898.52	4,827.06	71.46	68.547		
5,500.00	4,685.47	4,845.85	4,788.28	54.32	19.37	98.01	-3,666.75	3,619.03	4,906.10	4,833.26	72.84	67.351		
5,600.00	4,763.59	4,910.77	4,853.19	55.64	19.56	98.48	-3,665.42	3,618.71	4,914.80	4,840.56	74.24	66.203		
5,700.00	4,841.71	4,996.92	4,939.30	56.97	19.81	99.12	-3,664.15	3,616.64	4,924.34	4,848.67	75.67	65.077		
5,800.00	4,919.83	5,086.19	5,028.51	58.30	20.05	99.79	-3,662.72	3,613.58	4,934.40	4,857.31	77.09	64.010		
5,900.00	4,997.94	5,167.76	5,110.01	59.62	20.28	100.40	-3,661.46	3,610.29	4,945.23	4,866.76	78.47	63.020		
6,000.00	5,076.06	5,257.62	5,199.77	60.95	20.53	101.07	-3,659.93	3,606.37	4,956.72	4,876.85	79.86	62.065		
6,100.00	5,154.18	5,327.41	5,269.47	62.28	20.72	101.60	-3,658.64	3,603.19	4,968.89	4,887.70	81.19	61.202		
6,200.00	5,232.29	5,375.40	5,317.42	63.61	20.86	101.95	-3,657.90	3,601.40	4,982.21	4,899.78	82.44	60.435		
6,300.00	5,310.41	5,424.00	5,366.00	64.93	21.00	102.31	-3,657.34	3,600.06	4,996.77	4,913.09	83.68	59.716		
6,400.00	5,388.53	5,480.00	5,421.99	66.26	21.16	102.71	-3,656.94	3,599.11	5,012.53	4,927.61	84.92	59.026		
6,500.00	5,466.64	5,541.68	5,483.67	67.59	21.34	103.15	-3,656.66	3,598.45	5,029.33	4,943.15	86.18	58.361		
6,600.00	5,544.76	5,613.22	5,555.20	68.92	21.55	103.66	-3,656.42	3,597.76	5,046.97	4,959.51	87.45	57.712		
6,700.00	5,622.88	5,687.44	5,629.42	70.25	21.77	104.18	-3,656.24	3,597.11	5,065.41	4,976.69	88.72	57.093		
6,800.00	5,701.00	5,765.20	5,707.17	71.58	22.00	104.73	-3,656.08	3,596.34	5,084.58	4,994.59	89.99	56.501		
6,900.00	5,779.11	5,843.94	5,785.91	72.91	22.24	105.28	-3,655.92	3,595.43	5,104.45	5,013.20	91.25	55.939		
7,000.00	5,857.23	5,927.93	5,869.89	74.23	22.49	105.87	-3,655.70	3,594.28	5,124.97	5,032.45	92.51	55.397		
7,100.00	5,935.35	6,011.69	5,953.64	75.56	22.74	106.46	-3,655.39	3,592.94	5,146.08	5,052.32	93.76	54.885		
7,200.00	6,013.46	6,094.78	6,036.71	76.89	22.99	107.04	-3,654.99	3,591.42	5,167.79	5,072.80	94.99	54.402		
7,300.00	6,091.58	6,177.67	6,119.58	78.22	23.23	107.61	-3,654.51	3,589.71	5,190.11	5,093.91	96.21	53.947		
7,400.00	6,169.70	6,249.30	6,191.19	79.55	23.45	108.11	-3,654.11	3,588.11	5,213.11	5,115.75	97.37	53.541		
7,500.00	6,247.81	6,320.73	6,262.60	80.88	23.67	108.60	-3,653.77	3,586.45	5,236.87	5,138.36	98.51	53.161		
7,600.00	6,325.93	6,403.36	6,345.21	82.21	23.92	109.17	-3,653.43	3,584.50	5,261.33	5,161.65	99.68	52.782		
7,700.00	6,404.05	6,495.79	6,437.62	83.54	24.20	109.80	-3,652.81	3,582.54	5,286.26	5,185.38	100.88	52.403		
7,800.00	6,482.17	6,580.05	6,521.86	84.87	24.46	110.36	-3,652.05	3,580.99	5,311.65	5,209.62	102.04	52.057		
7,900.00	6,560.28	6,660.09	6,601.89	86.20	24.71	110.89	-3,651.27	3,579.77	5,337.62	5,234.46	103.17	51.738		
8,000.00	6,638.40	6,741.81	6,683.60	87.53	24.97	111.43	-3,650.44	3,578.82	5,364.17	5,259.88	104.29	51.433		
8,100.00	6,716.52	6,825.72	6,767.50	88.86	25.24	111.97	-3,649.52	3,578.40	5,391.24	5,285.82	105.43	51.138		
8,200.00	6,794.63	6,904.28	6,846.06	90.20	25.50	112.47	-3,648.61	3,578.51	5,418.82	5,312.29	106.53	50.868		
8,300.00	6,872.75	6,973.50	6,915.27	91.53	25.73	112.91	-3,647.89	3,578.74	5,447.06	5,339.48	107.58	50.633		
8,400.00	6,950.87	7,042.71	6,984.48	92.86	25.95	113.34	-3,647.30	3,579.03	5,475.98	5,367.36	108.62	50.415		
8,500.00	7,028.98	7,112.18	7,053.95	94.19	26.18	113.78	-3,646.83	3,579.34	5,505.58	5,395.93	109.64	50.213		
8,600.00	7,107.10	7,181.61	7,123.37	95.52	26.41	114.21	-3,646.46	3,579.63	5,535.84	5,425.18	110.66	50.028		
8,647.91	7,144.53	7,214.83	7,156.60	96.16	26.52	114.41	-3,646.33	3,579.77	5,550.57	5,439.43	111.14	49.944		
8,650.00	7,146.16	7,216.28	7,158.05	96.18	26.52	114.17	-3,646.33	3,579.77	5,551.21	5,440.06	111.16	49.940		
8,700.00	7,185.66	7,262.13	7,203.89	96.84	26.67	108.16	-3,646.14	3,579.92	5,564.46	5,452.75	111.71	49.811		
8,750.00	7,225.78	7,312.72	7,254.48	97.47	26.84	101.77	-3,645.84	3,579.95	5,573.55	5,461.26	112.29	49.634		
8,800.00	7,266.21	7,363.47	7,305.24	98.08	27.00	95.19	-3,645.43	3,579.84	5,578.41	5,465.53	112.88	49.420		
8,850.00	7,306.63	7,414.46	7,356.22	98.64	27.17	88.64	-3,644.90	3,579.59	5,579.01	5,465.54	113.46	49.171		
8,900.00	7,346.75	7,466.13	7,407.88	99.17	27.34	82.38	-3,644.24	3,579.16	5,575.34	5,461.31	114.03	48.892		
8,950.00	7,386.25	7,516.61	7,458.35	99.64	27.50	76.62	-3,643.47	3,578.56	5,567.45	5,452.86	114.59	48.586		
9,000.00	7,424.84	7,565.48	7,507.21	100.06	27.66	71.47	-3,642.60	3,577.82	5,555.40	5,440.28	115.12	48.258		
9,050.00	7,462.22	7,596.40	7,538.12	100.42	27.76	66.91	-3,642.02	3,577.32	5,539.33	5,423.78	115.55	47.938		
9,100.00	7,498.11	7,622.31	7,564.03	100.74	27.85	63.02	-3,641.59	3,577.01	5,519.44	5,403.50	115.94	47.605		
9,150.00	7,532.24	7,647.14	7,588.85	100.99	27.93	59.83	-3,641.24	3,576.82	5,495.87	5,379.57	116.30	47.255		
9,200.00	7,564.34	7,670.67	7,612.38	101.19	28.01	57.28	-3,640.96	3,576.74	5,468.77	5,352.14	116.63	46.889		
9,250.00	7,594.17	7,692.71	7,634.41	101.34	28.08	55.37	-3,640.74	3,576.74	5,438.33	5,321.40	116.93	46.509		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,713.06	7,654.77	101.45	28.14	54.08	-3,640.57	3,576.82	5,404.75	5,287.55	117.20	46.117		
9,350.00	7,646.13	7,731.54	7,673.25	101.50	28.20	53.41	-3,640.46	3,576.95	5,368.25	5,250.82	117.43	45.715		
9,400.00	7,667.87	7,750.00	7,691.71	101.51	28.27	53.45	-3,640.37	3,577.13	5,329.09	5,211.46	117.64	45.302		
9,450.00	7,686.55	7,769.43	7,711.14	101.48	28.33	54.34	-3,640.29	3,577.39	5,287.53	5,169.70	117.83	44.874		
9,500.00	7,702.04	7,788.25	7,729.95	101.42	28.39	56.31	-3,640.21	3,577.71	5,243.84	5,125.84	118.00	44.438		
9,550.00	7,714.20	7,803.03	7,744.73	101.33	28.44	59.76	-3,640.15	3,578.00	5,198.35	5,080.21	118.14	44.002		
9,600.00	7,722.96	7,813.63	7,755.33	101.20	28.48	65.55	-3,640.11	3,578.24	5,151.37	5,033.13	118.24	43.567		
9,650.00	7,728.24	7,819.94	7,761.63	101.06	28.50	75.42	-3,640.09	3,578.39	5,103.27	4,984.96	118.31	43.134		
9,699.97	7,730.00	7,821.87	7,763.57	100.90	28.51	92.70	-3,640.08	3,578.44	5,054.42	4,936.06	118.35	42.706		
9,800.00	7,730.00	7,821.37	7,763.06	100.56	28.51	92.67	-3,640.08	3,578.43	4,956.11	4,837.70	118.41	41.855		
9,900.00	7,730.00	7,820.86	7,762.55	100.24	28.50	92.63	-3,640.08	3,578.41	4,857.91	4,739.44	118.47	41.006		
10,000.00	7,730.00	7,820.35	7,762.04	99.93	28.50	92.60	-3,640.08	3,578.40	4,759.78	4,641.25	118.53	40.157		
10,100.00	7,730.00	7,819.84	7,761.53	99.64	28.50	92.57	-3,640.09	3,578.39	4,661.73	4,543.13	118.59	39.309		
10,200.00	7,730.00	7,819.33	7,761.03	99.36	28.50	92.54	-3,640.09	3,578.38	4,563.76	4,445.10	118.66	38.461		
10,300.00	7,730.00	7,818.82	7,760.52	99.09	28.50	92.51	-3,640.09	3,578.36	4,465.88	4,347.16	118.73	37.614		
10,400.00	7,730.00	7,818.32	7,760.01	98.84	28.50	92.48	-3,640.09	3,578.35	4,368.10	4,249.30	118.80	36.768		
10,500.00	7,730.00	7,817.81	7,759.50	98.61	28.49	92.45	-3,640.09	3,578.34	4,270.43	4,151.55	118.88	35.923		
10,600.00	7,730.00	7,817.30	7,759.00	98.39	28.49	92.41	-3,640.10	3,578.33	4,172.86	4,053.91	118.95	35.079		
10,700.00	7,730.00	7,816.80	7,758.49	98.18	28.49	92.38	-3,640.10	3,578.31	4,075.41	3,956.37	119.04	34.237		
10,800.00	7,730.00	7,816.29	7,757.99	97.99	28.49	92.35	-3,640.10	3,578.30	3,978.09	3,858.97	119.12	33.395		
10,900.00	7,730.00	7,815.79	7,757.48	97.81	28.49	92.32	-3,640.10	3,578.29	3,880.90	3,761.69	119.21	32.554		
11,000.00	7,730.00	7,815.28	7,756.98	97.64	28.48	92.29	-3,640.11	3,578.28	3,783.86	3,664.56	119.31	31.715		
11,100.00	7,730.00	7,814.78	7,756.47	97.50	28.48	92.26	-3,640.11	3,578.27	3,686.98	3,567.58	119.40	30.878		
11,200.00	7,730.00	7,814.27	7,755.97	97.36	28.48	92.23	-3,640.11	3,578.26	3,590.27	3,470.76	119.51	30.042		
11,300.00	7,730.00	7,813.77	7,755.46	97.24	28.48	92.20	-3,640.11	3,578.24	3,493.75	3,374.13	119.61	29.208		
11,400.00	7,730.00	7,813.26	7,754.96	97.14	28.48	92.16	-3,640.11	3,578.23	3,397.42	3,277.69	119.73	28.376		
11,500.00	7,730.00	7,812.76	7,754.45	97.06	28.48	92.13	-3,640.12	3,578.22	3,301.31	3,181.47	119.84	27.547		
11,600.00	7,730.00	7,812.25	7,753.95	96.98	28.47	92.10	-3,640.12	3,578.21	3,205.45	3,085.48	119.97	26.719		
11,700.00	7,730.00	7,811.75	7,753.45	96.93	28.47	92.07	-3,640.12	3,578.20	3,109.84	2,989.74	120.10	25.895		
11,800.00	7,730.00	7,811.25	7,752.94	96.90	28.47	92.04	-3,640.12	3,578.19	3,014.52	2,894.29	120.23	25.073		
11,900.00	7,730.00	7,810.75	7,752.44	96.88	28.47	92.01	-3,640.12	3,578.17	2,919.51	2,799.13	120.37	24.254		
12,000.00	7,730.00	7,810.24	7,751.94	96.88	28.47	91.98	-3,640.13	3,578.16	2,824.84	2,704.32	120.52	23.439		
12,100.00	7,730.00	7,809.74	7,751.44	96.90	28.47	91.95	-3,640.13	3,578.15	2,730.55	2,609.88	120.67	22.628		
12,200.00	7,730.00	7,809.24	7,750.93	96.94	28.46	91.92	-3,640.13	3,578.14	2,636.69	2,515.86	120.83	21.821		
12,300.00	7,730.00	7,808.74	7,750.43	97.00	28.46	91.88	-3,640.13	3,578.13	2,543.29	2,422.30	121.00	21.019		
12,400.00	7,730.00	7,808.24	7,749.93	97.08	28.46	91.85	-3,640.13	3,578.12	2,450.42	2,329.25	121.17	20.223		
12,500.00	7,730.00	7,807.73	7,749.43	97.18	28.46	91.82	-3,640.14	3,578.11	2,358.13	2,236.78	121.35	19.433		
12,600.00	7,730.00	7,807.23	7,748.93	97.31	28.46	91.79	-3,640.14	3,578.10	2,266.49	2,144.95	121.53	18.649		
12,700.00	7,730.00	7,806.73	7,748.43	97.46	28.46	91.76	-3,640.14	3,578.08	2,175.58	2,053.86	121.72	17.873		
12,800.00	7,730.00	7,806.23	7,747.93	97.64	28.45	91.73	-3,640.14	3,578.07	2,085.51	1,963.60	121.92	17.106		
12,900.00	7,730.00	7,805.73	7,747.43	97.85	28.45	91.70	-3,640.14	3,578.06	1,996.39	1,874.27	122.12	16.348		
13,000.00	7,730.00	7,805.23	7,746.93	98.09	28.45	91.67	-3,640.15	3,578.05	1,908.34	1,786.03	122.31	15.602		
13,100.00	7,730.00	7,804.73	7,746.43	98.35	28.45	91.64	-3,640.15	3,578.04	1,821.53	1,699.03	122.51	14.869		
13,200.00	7,730.00	7,804.23	7,745.93	98.65	28.45	91.61	-3,640.15	3,578.03	1,736.14	1,613.45	122.69	14.151		
13,300.00	7,730.00	7,803.74	7,745.43	98.98	28.45	91.57	-3,640.15	3,578.02	1,652.39	1,529.53	122.86	13.449		
13,400.00	7,730.00	7,803.24	7,744.94	99.34	28.44	91.54	-3,640.15	3,578.01	1,570.54	1,447.53	123.01	12.768		
13,500.00	7,730.00	7,802.74	7,744.44	99.74	28.44	91.51	-3,640.16	3,578.00	1,490.90	1,367.78	123.12	12.109		
13,600.00	7,730.00	7,802.24	7,743.94	100.17	28.44	91.48	-3,640.16	3,577.99	1,413.86	1,290.68	123.18	11.478		
13,700.00	7,730.00	7,801.74	7,743.44	100.65	28.44	91.45	-3,640.16	3,577.98	1,339.85	1,216.68	123.17	10.878		
13,800.00	7,730.00	7,801.25	7,742.94	101.16	28.44	91.42	-3,640.16	3,577.97	1,269.41	1,146.35	123.06	10.316		
13,900.00	7,730.00	7,800.75	7,742.45	101.71	28.44	91.39	-3,640.16	3,577.96	1,203.16	1,080.35	122.81	9.797		
14,000.00	7,730.00	7,800.25	7,741.95	102.30	28.43	91.36	-3,640.17	3,577.95	1,141.84	1,019.44	122.40	9.329		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 548-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,799.76	7,741.45	102.93	28.43	91.33	-3,640.17	3,577.94	1,086.28	964.51	121.77	8.921		
14,200.00	7,730.00	7,799.26	7,740.96	103.60	28.43	91.30	-3,640.17	3,577.93	1,037.40	916.52	120.88	8.582		
14,300.00	7,730.00	7,798.76	7,740.46	104.32	28.43	91.27	-3,640.17	3,577.92	996.19	876.50	119.69	8.323		
14,400.00	7,730.00	7,798.27	7,739.97	105.07	28.43	91.24	-3,640.17	3,577.91	963.63	845.44	118.20	8.153		
14,500.00	7,730.00	7,797.77	7,739.47	105.86	28.43	91.21	-3,640.18	3,577.90	940.63	824.22	116.42	8.080 SF		
14,600.00	7,730.00	7,797.28	7,738.98	106.70	28.42	91.18	-3,640.18	3,577.89	927.89	813.48	114.42	8.110		
14,669.02	7,730.00	7,796.94	7,738.64	107.30	28.42	91.15	-3,640.18	3,577.88	925.32	812.36	112.97	8.191 CC, ES		
14,700.00	7,730.00	7,796.78	7,738.48	107.57	28.42	91.14	-3,640.18	3,577.88	925.84	813.53	112.31	8.244		
14,800.00	7,730.00	7,796.29	7,737.99	108.48	28.42	91.11	-3,640.18	3,577.87	934.55	824.31	110.23	8.478		
14,900.00	7,730.00	7,795.79	7,737.49	109.43	28.42	91.08	-3,640.18	3,577.86	953.72	845.38	108.34	8.803		
15,000.00	7,730.00	7,795.30	7,737.00	110.42	28.42	91.05	-3,640.19	3,577.85	982.74	876.01	106.72	9.208		
15,100.00	7,730.00	7,794.81	7,736.51	111.43	28.42	91.02	-3,640.19	3,577.84	1,020.77	915.31	105.46	9.679		
15,200.00	7,730.00	7,794.31	7,736.01	112.49	28.41	90.99	-3,640.19	3,577.83	1,066.85	962.30	104.55	10.204		
15,300.00	7,730.00	7,793.82	7,735.52	113.57	28.41	90.96	-3,640.19	3,577.82	1,119.98	1,016.01	103.97	10.772		
15,400.00	7,730.00	7,793.33	7,735.03	114.68	28.41	90.93	-3,640.19	3,577.81	1,179.22	1,075.54	103.68	11.374		
15,500.00	7,730.00	7,792.83	7,734.53	115.82	28.41	90.90	-3,640.20	3,577.80	1,243.68	1,140.08	103.60	12.005		
15,600.00	7,730.00	7,792.34	7,734.04	116.99	28.41	90.87	-3,640.20	3,577.79	1,312.61	1,208.92	103.69	12.659		
15,700.00	7,730.00	7,791.85	7,733.55	118.19	28.41	90.84	-3,640.20	3,577.78	1,385.33	1,281.44	103.89	13.334		
15,800.00	7,730.00	7,791.36	7,733.06	119.41	28.40	90.81	-3,640.20	3,577.77	1,461.28	1,357.10	104.18	14.027		
15,900.00	7,730.00	7,790.87	7,732.57	120.65	28.40	90.78	-3,640.20	3,577.76	1,539.97	1,435.46	104.51	14.735		
16,000.00	7,730.00	7,790.38	7,732.08	121.91	28.40	90.75	-3,640.21	3,577.75	1,621.02	1,516.15	104.87	15.458		
16,100.00	7,730.00	7,789.88	7,731.59	123.20	28.40	90.72	-3,640.21	3,577.74	1,704.08	1,598.84	105.24	16.192		
16,200.00	7,730.00	7,789.39	7,731.09	124.50	28.40	90.69	-3,640.21	3,577.73	1,788.88	1,683.26	105.62	16.937		
16,300.00	7,730.00	7,788.90	7,730.60	125.82	28.40	90.66	-3,640.21	3,577.72	1,875.18	1,769.18	105.99	17.692		
16,400.00	7,730.00	7,788.41	7,730.11	127.16	28.39	90.63	-3,640.21	3,577.71	1,962.77	1,856.42	106.35	18.455		
16,500.00	7,730.00	7,787.92	7,729.63	128.52	28.39	90.60	-3,640.22	3,577.70	2,051.50	1,944.80	106.70	19.226		
16,600.00	7,730.00	7,787.43	7,729.14	129.89	28.39	90.57	-3,640.22	3,577.70	2,141.23	2,034.19	107.04	20.004		
16,700.00	7,730.00	7,786.95	7,728.65	131.27	28.39	90.54	-3,640.22	3,577.69	2,231.82	2,124.47	107.36	20.788		
16,800.00	7,730.00	7,786.46	7,728.16	132.67	28.39	90.51	-3,640.22	3,577.68	2,323.19	2,215.53	107.67	21.578		
16,900.00	7,730.00	7,785.97	7,727.67	134.09	28.39	90.47	-3,640.22	3,577.67	2,415.25	2,307.29	107.96	22.372		
17,000.00	7,730.00	7,785.48	7,727.18	135.51	28.38	90.44	-3,640.23	3,577.66	2,507.91	2,399.68	108.23	23.171		
17,100.00	7,730.00	7,784.99	7,726.69	136.95	28.38	90.41	-3,640.23	3,577.65	2,601.11	2,492.62	108.50	23.974		
17,200.00	7,730.00	7,784.50	7,726.20	138.40	28.38	90.38	-3,640.23	3,577.64	2,694.81	2,586.06	108.75	24.781		
17,300.00	7,730.00	7,784.02	7,725.72	139.85	28.38	90.35	-3,640.23	3,577.63	2,788.94	2,679.95	108.98	25.590		
17,400.00	7,730.00	7,783.53	7,725.23	141.32	28.38	90.32	-3,640.23	3,577.62	2,883.46	2,774.25	109.21	26.403		
17,500.00	7,730.00	7,783.04	7,724.74	142.80	28.38	90.29	-3,640.24	3,577.62	2,978.35	2,868.92	109.43	27.218		
17,600.00	7,730.00	7,782.55	7,724.26	144.28	28.37	90.26	-3,640.24	3,577.61	3,073.55	2,963.92	109.63	28.035		
17,700.00	7,730.00	7,782.07	7,723.77	145.78	28.37	90.23	-3,640.24	3,577.60	3,169.05	3,059.23	109.83	28.855		
17,800.00	7,730.00	7,781.58	7,723.28	147.28	28.37	90.20	-3,640.24	3,577.59	3,264.83	3,154.81	110.01	29.677		
17,900.00	7,730.00	7,781.10	7,722.80	148.79	28.37	90.17	-3,640.24	3,577.58	3,360.84	3,250.65	110.19	30.500		
18,000.00	7,730.00	7,780.61	7,722.31	150.31	28.37	90.14	-3,640.25	3,577.57	3,457.09	3,346.73	110.36	31.325		
18,100.00	7,730.00	7,780.13	7,721.83	151.83	28.37	90.11	-3,640.25	3,577.57	3,553.54	3,443.01	110.53	32.151		
18,200.00	7,730.00	7,779.64	7,721.34	153.37	28.37	90.08	-3,640.25	3,577.56	3,650.18	3,539.50	110.68	32.978		
18,300.00	7,730.00	7,779.16	7,720.86	154.90	28.36	90.05	-3,640.25	3,577.55	3,747.00	3,636.17	110.83	33.807		
18,400.00	7,730.00	7,778.67	7,720.37	156.45	28.36	90.02	-3,640.25	3,577.54	3,843.98	3,733.00	110.98	34.637		
18,500.00	7,730.00	7,778.19	7,719.89	158.00	28.36	89.99	-3,640.26	3,577.53	3,941.11	3,829.99	111.12	35.467		
18,600.00	7,730.00	7,777.70	7,719.41	159.55	28.36	89.96	-3,640.26	3,577.52	4,038.39	3,927.13	111.25	36.299		
18,700.00	7,730.00	7,777.22	7,718.92	161.11	28.36	89.93	-3,640.26	3,577.52	4,135.79	4,024.40	111.38	37.131		
18,800.00	7,730.00	7,776.74	7,718.44	162.68	28.36	89.90	-3,640.26	3,577.51	4,233.31	4,121.80	111.51	37.964		
18,900.00	7,730.00	7,776.25	7,717.96	164.25	28.35	89.87	-3,640.26	3,577.50	4,330.95	4,219.32	111.63	38.797		
19,000.00	7,730.00	19,000.00	7,666.55	165.83	65.72	86.70	-3,640.66	3,577.21	4,428.68	4,279.50	149.18	29.686		
19,100.00	7,730.00	19,100.00	7,665.38	167.41	66.05	86.62	-3,640.68	3,577.21	4,526.51	4,376.88	149.63	30.250		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		548-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	7,730.00	19,200.00	7,664.21	168.99	66.39	86.55	-3,640.69	3,577.22	4,624.44	4,474.35	150.08	30.812	
19,300.00	7,730.00	19,300.00	7,663.04	170.58	66.73	86.48	-3,640.70	3,577.22	4,722.45	4,571.91	150.53	31.372	
19,400.00	7,730.00	19,400.00	7,661.87	172.17	67.06	86.41	-3,640.72	3,577.22	4,820.54	4,669.56	150.97	31.930	
19,430.54	7,730.00	19,430.54	7,661.51	172.66	67.16	86.39	-3,640.72	3,577.22	4,850.51	4,699.40	151.11	32.099	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	33.10	33.10	0.00	0.05	163.61	-7,121.70	2,094.27	7,423.25					
100.00	100.00	153.45	153.45	0.13	0.39	163.61	-7,121.13	2,094.97	7,422.96	7,422.43	0.52	N/A		
200.00	200.00	232.79	232.78	0.49	0.66	163.61	-7,121.08	2,094.34	7,422.67	7,421.52	1.16	6,415.413		
232.99	232.99	257.00	256.99	0.61	0.75	163.61	-7,121.14	2,094.07	7,422.65	7,421.29	1.36	5,458.109		
300.00	300.00	292.89	292.88	0.85	0.88	163.62	-7,121.36	2,093.59	7,422.79	7,421.06	1.73	4,297.875		
400.00	400.00	349.00	348.97	1.21	1.07	163.63	-7,122.08	2,092.62	7,423.53	7,421.24	2.28	3,250.413		
500.00	500.00	411.87	411.82	1.57	1.30	163.64	-7,123.35	2,091.20	7,424.81	7,421.95	2.87	2,590.204		
600.00	599.98	481.33	481.21	1.92	1.55	98.28	-7,125.25	2,088.99	7,426.79	7,423.32	3.47	2,139.880		
700.00	699.84	566.71	566.39	2.28	1.86	98.30	-7,128.51	2,084.22	7,429.64	7,425.50	4.14	1,795.746		
794.42	793.90	940.35	936.01	2.62	3.37	98.91	-7,142.05	2,033.90	7,429.26	7,423.27	5.99	1,240.580		
800.00	799.45	942.46	938.08	2.64	3.38	98.92	-7,142.14	2,033.47	7,429.27	7,423.25	6.02	1,234.423		
900.00	898.70	986.00	980.65	3.02	3.58	99.01	-7,144.17	2,024.58	7,430.05	7,423.46	6.59	1,126.873		
1,000.00	997.47	1,058.95	1,051.69	3.41	3.93	99.19	-7,148.10	2,008.44	7,431.87	7,424.52	7.34	1,012.327		
1,100.00	1,095.62	1,096.00	1,087.60	3.84	4.11	99.25	-7,150.49	1,999.64	7,434.98	7,427.03	7.95	935.614		
1,200.00	1,193.06	1,096.00	1,087.60	4.29	4.11	99.15	-7,150.49	1,999.64	7,439.78	7,431.38	8.40	885.854		
1,300.00	1,289.64	1,146.35	1,136.31	4.78	4.37	99.22	-7,154.41	1,987.51	7,445.86	7,436.72	9.15	814.115		
1,400.00	1,385.27	1,183.00	1,171.73	5.32	4.56	99.21	-7,157.81	1,978.77	7,453.77	7,443.91	9.86	755.711		
1,500.00	1,479.82	1,183.00	1,171.73	5.90	4.56	99.02	-7,157.81	1,978.77	7,463.25	7,452.81	10.44	715.206		
1,600.00	1,573.17	1,238.75	1,225.43	6.53	4.87	99.06	-7,163.71	1,964.99	7,474.15	7,462.79	11.36	657.890		
1,700.00	1,665.21	1,271.00	1,256.32	7.23	5.04	98.97	-7,167.45	1,956.51	7,486.58	7,474.37	12.21	613.143		
1,800.00	1,755.84	1,306.26	1,290.02	7.98	5.25	98.87	-7,171.78	1,947.06	7,500.51	7,487.37	13.14	570.790		
1,900.00	1,844.94	1,336.55	1,318.94	8.80	5.42	98.72	-7,175.68	1,938.95	7,515.98	7,501.88	14.10	533.064		
2,000.00	1,932.39	1,392.65	1,372.48	9.68	5.75	98.69	-7,183.19	1,923.98	7,532.96	7,517.69	15.27	493.299		
2,100.00	2,018.11	1,471.57	1,447.81	10.63	6.22	98.78	-7,193.55	1,902.87	7,550.96	7,534.32	16.64	453.736		
2,200.00	2,101.97	1,514.79	1,489.03	11.65	6.48	98.64	-7,199.32	1,891.20	7,570.32	7,552.46	17.86	423.755		
2,300.00	2,183.88	1,532.00	1,505.42	12.74	6.58	98.32	-7,201.65	1,886.53	7,591.17	7,572.18	18.99	399.695		
2,400.00	2,263.74	1,577.42	1,548.64	13.90	6.86	98.15	-7,207.99	1,874.07	7,613.46	7,593.11	20.36	373.987		
2,431.61	2,288.54	1,585.93	1,556.72	14.29	6.92	98.05	-7,209.22	1,871.71	7,620.84	7,600.07	20.76	367.013		
2,500.00	2,341.97	1,620.00	1,589.04	15.13	7.13	98.27	-7,214.23	1,862.18	7,637.24	7,615.49	21.75	351.115		
2,600.00	2,420.08	1,620.00	1,589.04	16.37	7.13	98.27	-7,214.23	1,862.18	7,662.04	7,639.15	22.89	334.697		
2,700.00	2,498.20	1,663.51	1,630.28	17.63	7.40	98.55	-7,220.83	1,849.97	7,687.84	7,663.53	24.31	316.238		
2,800.00	2,576.32	1,707.00	1,671.50	18.89	7.68	98.83	-7,227.60	1,837.87	7,714.67	7,688.94	25.73	299.854		
2,900.00	2,654.43	1,968.38	1,920.04	20.17	9.33	100.48	-7,265.33	1,766.34	7,742.40	7,713.89	28.51	271.569		
3,000.00	2,732.55	2,257.86	2,197.83	21.45	11.08	102.26	-7,297.34	1,691.64	7,768.25	7,736.86	31.39	247.442		
3,100.00	2,810.67	2,281.73	2,220.79	22.74	11.23	102.41	-7,299.69	1,685.49	7,794.37	7,761.69	32.68	238.519		
3,200.00	2,888.78	2,318.00	2,255.58	24.03	11.44	102.63	-7,303.48	1,676.00	7,821.54	7,787.51	34.03	229.846		
3,300.00	2,966.90	2,340.53	2,277.18	25.33	11.58	102.76	-7,305.92	1,670.06	7,849.64	7,814.35	35.29	222.412		
3,400.00	3,045.02	2,546.20	2,474.89	26.63	12.81	104.01	-7,326.51	1,617.31	7,878.35	7,840.71	37.64	209.326		
3,500.00	3,123.13	3,500.00	2,569.33	27.94	18.40	104.59	-7,334.87	1,593.03	7,906.69	7,862.48	44.21	178.854		
3,600.00	3,201.25	2,691.52	2,615.06	29.24	13.67	104.88	-7,338.84	1,580.98	7,935.67	7,894.97	40.71	194.953		
3,700.00	3,279.37	2,713.30	2,636.02	30.55	13.80	105.01	-7,340.75	1,575.39	7,965.62	7,923.69	41.93	189.967		
3,800.00	3,357.49	2,755.00	2,676.15	31.86	14.05	105.26	-7,344.69	1,564.77	7,996.61	7,953.35	43.27	184.827		
3,900.00	3,435.60	2,768.34	2,688.99	33.18	14.12	105.33	-7,346.01	1,561.39	8,028.44	7,984.02	44.42	180.742		
4,000.00	3,513.72	2,903.14	2,819.17	34.49	14.91	106.13	-7,358.52	1,528.72	8,060.73	8,014.47	46.26	174.242		
4,100.00	3,591.84	3,050.61	2,962.17	35.81	15.73	106.98	-7,370.87	1,494.90	8,093.20	8,045.06	48.14	168.106		
4,200.00	3,669.95	3,126.83	3,036.01	37.12	16.16	107.41	-7,376.60	1,476.87	8,125.76	8,076.13	49.62	163.754		
4,300.00	3,748.07	3,157.07	3,065.24	38.44	16.34	107.59	-7,378.94	1,469.48	8,159.14	8,108.31	50.83	160.506		
4,400.00	3,826.19	3,191.00	3,097.98	39.76	16.53	107.79	-7,381.69	1,461.02	8,193.39	8,141.34	52.06	157.398		
4,500.00	3,904.30	3,216.94	3,122.97	41.08	16.69	107.94	-7,383.88	1,454.45	8,228.50	8,175.28	53.22	154.605		
4,600.00	3,982.42	3,246.87	3,151.79	42.40	16.87	108.11	-7,386.50	1,446.79	8,264.46	8,210.06	54.40	151.916		
4,700.00	4,060.54	3,278.00	3,181.73	43.72	17.05	108.29	-7,389.32	1,438.75	8,301.25	8,245.68	55.57	149.371		
4,800.00	4,138.66	3,278.00	3,181.73	45.05	17.05	108.29	-7,389.32	1,438.75	8,338.98	8,282.42	56.55	147.458		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 74-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.00	4,216.77	3,314.61	3,216.93	46.37	17.27	108.50	-7,392.88	1,429.32	8,377.47	8,319.74	57.73	145.109		
5,000.00	4,294.89	3,333.38	3,234.97	47.69	17.39	108.61	-7,394.84	1,424.53	8,416.91	8,358.12	58.79	143.158		
5,100.00	4,373.01	3,366.00	3,266.33	49.02	17.58	108.80	-7,398.46	1,416.31	8,457.26	8,397.33	59.93	141.126		
5,200.00	4,451.12	3,477.09	3,373.02	50.34	18.26	109.44	-7,410.47	1,387.77	8,498.22	8,436.70	61.52	138.137		
5,300.00	4,529.24	5,300.00	3,435.49	51.67	29.46	109.81	-7,417.04	1,370.56	8,539.30	8,466.41	72.89	117.158		
5,400.00	4,607.36	5,015.17	4,888.12	52.99	24.35	116.70	-7,471.69	1,214.71	8,573.17	8,503.45	69.72	122.965		
5,500.00	4,685.47	5,134.30	5,007.18	54.32	24.64	117.17	-7,467.75	1,214.16	8,603.52	8,532.51	71.02	121.149		
5,600.00	4,763.59	5,184.34	5,057.19	55.64	24.76	117.36	-7,466.13	1,214.02	8,634.22	8,562.09	72.13	119.708		
5,700.00	4,841.71	5,245.38	5,118.21	56.97	24.91	117.60	-7,464.26	1,213.94	8,665.40	8,592.14	73.26	118.284		
5,800.00	4,919.83	5,286.00	5,158.81	58.30	25.00	117.76	-7,463.09	1,213.96	8,697.09	8,622.76	74.33	117.007		
5,900.00	4,997.94	5,286.00	5,158.81	59.62	25.00	117.76	-7,463.09	1,213.96	8,729.69	8,654.42	75.28	115.966		
6,000.00	5,076.06	5,347.62	5,220.41	60.95	25.17	118.00	-7,461.76	1,213.72	8,762.67	8,686.27	76.40	114.697		
6,100.00	5,154.18	5,373.59	5,246.38	62.28	25.24	118.10	-7,461.44	1,213.44	8,796.64	8,719.23	77.40	113.647		
6,200.00	5,232.29	5,399.31	5,272.10	63.61	25.31	118.20	-7,461.25	1,213.06	8,831.38	8,752.98	78.40	112.652		
6,300.00	5,310.41	5,461.00	5,333.77	64.93	25.48	118.44	-7,461.34	1,211.71	8,867.11	8,787.62	79.49	111.552		
6,400.00	5,388.53	5,461.00	5,333.77	66.26	25.48	118.44	-7,461.34	1,211.71	8,903.18	8,822.80	80.38	110.764		
6,500.00	5,466.64	5,494.75	5,367.50	67.59	25.57	118.57	-7,461.64	1,210.86	8,940.15	8,858.78	81.37	109.872		
6,600.00	5,544.76	5,555.11	5,427.85	68.92	25.75	118.81	-7,462.30	1,209.62	8,977.61	8,895.17	82.44	108.901		
6,700.00	5,622.88	5,615.88	5,488.61	70.25	25.92	119.04	-7,463.16	1,208.73	9,015.50	8,932.00	83.50	107.966		
6,800.00	5,701.00	6,800.00	5,637.03	71.58	29.21	119.60	-7,464.60	1,207.80	9,053.04	8,965.24	87.80	103.111		
6,900.00	5,779.11	5,974.66	5,847.37	72.91	26.92	120.38	-7,464.45	1,206.38	9,090.03	9,003.64	86.40	105.214		
7,000.00	5,857.23	7,000.00	5,992.39	74.23	29.71	120.91	-7,462.55	1,205.58	9,126.37	9,036.10	90.26	101.107		
7,100.00	5,935.35	6,243.74	6,116.41	75.56	27.65	121.36	-7,460.44	1,205.39	9,162.75	9,073.79	88.96	103.002		
7,200.00	6,013.46	6,307.68	6,180.33	76.89	27.82	121.59	-7,459.27	1,204.99	9,199.48	9,109.47	90.00	102.212		
7,300.00	6,091.58	6,388.43	6,261.07	78.22	28.04	121.89	-7,457.82	1,204.17	9,236.56	9,145.46	91.10	101.389		
7,400.00	6,169.70	6,481.63	6,354.25	79.55	28.30	122.22	-7,456.04	1,203.38	9,273.81	9,181.57	92.23	100.546		
7,500.00	6,247.81	6,551.48	6,424.09	80.88	28.50	122.47	-7,454.70	1,202.98	9,311.27	9,217.99	93.28	99.818		
7,600.00	6,325.93	6,611.76	6,484.36	82.21	28.66	122.69	-7,453.72	1,202.86	9,349.13	9,254.84	94.29	99.150		
7,700.00	6,404.05	6,672.26	6,544.85	83.54	28.82	122.90	-7,452.91	1,202.99	9,387.40	9,292.10	95.30	98.505		
7,800.00	6,482.17	6,754.33	6,626.92	84.87	29.04	123.18	-7,451.96	1,203.37	9,426.00	9,329.64	96.37	97.815		
7,900.00	6,560.28	6,841.10	6,713.68	86.20	29.28	123.48	-7,450.89	1,203.82	9,464.78	9,367.34	97.44	97.132		
8,000.00	6,638.40	6,935.98	6,808.55	87.53	29.53	123.80	-7,449.59	1,204.28	9,503.71	9,405.16	98.54	96.442		
8,100.00	6,716.52	7,032.72	6,905.28	88.86	29.80	124.13	-7,448.04	1,204.57	9,542.73	9,443.08	99.64	95.768		
8,200.00	6,794.63	7,093.65	6,966.20	90.20	29.97	124.33	-7,447.04	1,204.69	9,581.99	9,481.36	100.62	95.226		
8,300.00	6,872.75	7,154.74	7,027.29	91.53	30.14	124.54	-7,446.14	1,204.79	9,621.62	9,520.02	101.60	94.703		
8,400.00	6,950.87	7,224.86	7,097.40	92.86	30.33	124.77	-7,445.25	1,204.89	9,661.63	9,559.04	102.60	94.172		
8,500.00	7,028.98	7,350.16	7,222.68	94.19	30.68	125.19	-7,443.46	1,205.52	9,701.68	9,597.91	103.78	93.486		
8,600.00	7,107.10	7,425.26	7,297.77	95.52	30.89	125.43	-7,442.25	1,206.18	9,741.73	9,636.95	104.78	92.970		
8,647.91	7,144.53	7,452.93	7,325.43	96.16	30.96	125.52	-7,441.84	1,206.40	9,761.05	9,655.81	105.23	92.756		
8,650.00	7,146.16	7,454.13	7,326.64	96.18	30.97	125.25	-7,441.82	1,206.41	9,761.89	9,656.64	105.25	92.746		
8,700.00	7,185.66	7,483.26	7,355.76	96.84	31.05	118.65	-7,441.41	1,206.61	9,780.04	9,674.31	105.74	92.495		
8,750.00	7,225.78	7,512.74	7,385.24	97.47	31.13	111.75	-7,441.02	1,206.79	9,794.32	9,688.09	106.24	92.191		
8,800.00	7,266.21	7,542.37	7,414.87	98.08	31.21	104.73	-7,440.66	1,206.94	9,804.64	9,697.88	106.76	91.839		
8,850.00	7,306.63	7,577.86	7,450.35	98.64	31.31	97.84	-7,440.25	1,207.10	9,810.91	9,703.60	107.31	91.427		
8,900.00	7,346.75	7,618.05	7,490.54	99.17	31.43	91.31	-7,439.79	1,207.27	9,813.07	9,705.20	107.88	90.964		
8,950.00	7,386.25	7,657.57	7,530.05	99.64	31.54	85.33	-7,439.34	1,207.43	9,811.11	9,702.67	108.44	90.473		
9,000.00	7,424.84	7,696.12	7,568.60	100.06	31.65	80.02	-7,438.89	1,207.59	9,805.05	9,696.05	109.00	89.958		
9,050.00	7,462.22	7,733.40	7,605.88	100.42	31.75	75.46	-7,438.46	1,207.74	9,794.94	9,685.41	109.53	89.427		
9,100.00	7,498.11	7,768.13	7,640.61	100.74	31.85	71.65	-7,438.08	1,207.92	9,780.86	9,670.82	110.04	88.886		
9,150.00	7,532.24	7,801.29	7,673.76	100.99	31.94	68.59	-7,437.73	1,208.15	9,762.92	9,652.40	110.52	88.336		
9,200.00	7,564.34	7,832.55	7,705.02	101.19	32.03	66.24	-7,437.43	1,208.42	9,741.25	9,630.28	110.97	87.781		
9,250.00	7,594.17	7,861.66	7,734.13	101.34	32.11	64.58	-7,437.17	1,208.73	9,716.03	9,604.64	111.39	87.223		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,300.00	7,621.50	7,888.38	7,760.85	101.45	32.19	63.59	-7,436.94	1,209.05	9,687.43	9,575.65	111.78	86.665		
9,350.00	7,646.13	7,912.49	7,784.96	101.50	32.26	63.30	-7,436.75	1,209.37	9,655.66	9,543.53	112.13	86.111		
9,400.00	7,667.87	7,927.90	7,800.36	101.51	32.30	63.69	-7,436.64	1,209.59	9,620.97	9,508.55	112.42	85.580		
9,450.00	7,686.55	7,942.45	7,814.91	101.48	32.34	64.90	-7,436.55	1,209.79	9,583.61	9,470.93	112.68	85.049		
9,500.00	7,702.04	7,954.50	7,826.96	101.42	32.37	67.06	-7,436.48	1,209.97	9,543.84	9,430.93	112.91	84.524		
9,550.00	7,714.20	7,963.95	7,836.41	101.33	32.40	70.40	-7,436.42	1,210.11	9,501.96	9,388.85	113.11	84.008		
9,600.00	7,722.96	7,970.71	7,843.17	101.20	32.41	75.26	-7,436.39	1,210.21	9,458.26	9,344.99	113.27	83.501		
9,650.00	7,728.24	7,974.72	7,847.17	101.06	32.43	82.14	-7,436.36	1,210.27	9,413.07	9,299.66	113.41	83.003		
9,699.97	7,730.00	7,975.92	7,848.38	100.90	32.43	91.65	-7,436.36	1,210.29	9,366.74	9,253.22	113.51	82.516		
9,800.00	7,730.00	7,975.52	7,847.97	100.56	32.43	91.64	-7,436.36	1,210.28	9,273.11	9,159.41	113.70	81.555		
9,900.00	7,730.00	7,975.11	7,847.57	100.24	32.43	91.63	-7,436.36	1,210.28	9,179.65	9,065.75	113.90	80.594		
10,000.00	7,730.00	7,974.70	7,847.16	99.93	32.43	91.63	-7,436.36	1,210.27	9,086.33	8,972.22	114.10	79.633		
10,100.00	7,730.00	7,974.29	7,846.75	99.64	32.42	91.62	-7,436.37	1,210.27	8,993.15	8,878.84	114.31	78.673		
10,200.00	7,730.00	7,973.88	7,846.34	99.36	32.42	91.61	-7,436.37	1,210.26	8,900.11	8,785.59	114.53	77.713		
10,300.00	7,730.00	7,973.47	7,845.92	99.09	32.42	91.61	-7,436.37	1,210.25	8,807.24	8,692.49	114.75	76.753		
10,400.00	7,730.00	7,973.05	7,845.50	98.84	32.42	91.60	-7,436.37	1,210.25	8,714.51	8,599.54	114.98	75.793		
10,500.00	7,730.00	7,972.63	7,845.08	98.61	32.42	91.59	-7,436.38	1,210.24	8,621.96	8,506.74	115.21	74.835		
10,600.00	7,730.00	7,972.20	7,844.66	98.39	32.42	91.58	-7,436.38	1,210.23	8,529.56	8,414.11	115.46	73.876		
10,700.00	7,730.00	7,971.78	7,844.23	98.18	32.42	91.58	-7,436.38	1,210.23	8,437.35	8,321.64	115.71	72.919		
10,800.00	7,730.00	7,971.35	7,843.80	97.99	32.42	91.57	-7,436.38	1,210.22	8,345.31	8,229.34	115.97	71.962		
10,900.00	7,730.00	7,970.92	7,843.37	97.81	32.42	91.56	-7,436.38	1,210.21	8,253.46	8,137.22	116.24	71.006		
11,000.00	7,730.00	7,970.48	7,842.94	97.64	32.41	91.55	-7,436.39	1,210.21	8,161.79	8,045.28	116.51	70.050		
11,100.00	7,730.00	7,970.04	7,842.50	97.50	32.41	91.55	-7,436.39	1,210.20	8,070.33	7,953.53	116.80	69.096		
11,200.00	7,730.00	7,969.60	7,842.06	97.36	32.41	91.54	-7,436.39	1,210.20	7,979.07	7,861.98	117.09	68.143		
11,300.00	7,730.00	7,969.16	7,841.62	97.24	32.41	91.53	-7,436.39	1,210.19	7,888.03	7,770.63	117.40	67.190		
11,400.00	7,730.00	7,968.72	7,841.17	97.14	32.41	91.52	-7,436.40	1,210.18	7,797.20	7,679.49	117.71	66.240		
11,500.00	7,730.00	7,968.27	7,840.73	97.06	32.41	91.51	-7,436.40	1,210.18	7,706.60	7,588.56	118.04	65.290		
11,600.00	7,730.00	7,967.82	7,840.27	96.98	32.41	91.51	-7,436.40	1,210.17	7,616.23	7,497.86	118.37	64.342		
11,700.00	7,730.00	7,967.36	7,839.82	96.93	32.41	91.50	-7,436.40	1,210.16	7,526.11	7,407.40	118.72	63.396		
11,800.00	7,730.00	7,966.91	7,839.36	96.90	32.40	91.49	-7,436.41	1,210.15	7,436.24	7,317.17	119.07	62.451		
11,900.00	7,730.00	7,966.45	7,838.90	96.88	32.40	91.48	-7,436.41	1,210.15	7,346.64	7,227.20	119.44	61.508		
12,000.00	7,730.00	7,965.98	7,838.44	96.88	32.40	91.47	-7,436.41	1,210.14	7,257.30	7,137.48	119.82	60.567		
12,100.00	7,730.00	7,965.52	7,837.97	96.90	32.40	91.47	-7,436.41	1,210.13	7,168.25	7,048.03	120.22	59.628		
12,200.00	7,730.00	7,965.05	7,837.51	96.94	32.40	91.46	-7,436.42	1,210.13	7,079.49	6,958.87	120.62	58.692		
12,300.00	7,730.00	7,964.58	7,837.03	97.00	32.40	91.45	-7,436.42	1,210.12	6,991.03	6,869.99	121.04	57.758		
12,400.00	7,730.00	7,964.10	7,836.56	97.08	32.40	91.44	-7,436.42	1,210.11	6,902.89	6,781.41	121.47	56.826		
12,500.00	7,730.00	7,963.62	7,836.08	97.18	32.40	91.43	-7,436.42	1,210.11	6,815.07	6,693.15	121.92	55.897		
12,600.00	7,730.00	7,963.14	7,835.60	97.31	32.39	91.43	-7,436.43	1,210.10	6,727.59	6,605.21	122.38	54.972		
12,700.00	7,730.00	7,962.66	7,835.11	97.46	32.39	91.42	-7,436.43	1,210.09	6,640.47	6,517.61	122.86	54.049		
12,800.00	7,730.00	7,962.17	7,834.63	97.64	32.39	91.41	-7,436.43	1,210.08	6,553.72	6,430.37	123.35	53.130		
12,900.00	7,730.00	7,961.68	7,834.13	97.85	32.39	91.40	-7,436.43	1,210.08	6,467.35	6,343.48	123.86	52.214		
13,000.00	7,730.00	7,961.18	7,833.64	98.09	32.39	91.39	-7,436.44	1,210.07	6,381.37	6,256.98	124.39	51.302		
13,100.00	7,730.00	7,960.68	7,833.14	98.35	32.39	91.38	-7,436.44	1,210.06	6,295.81	6,170.88	124.93	50.394		
13,200.00	7,730.00	7,960.18	7,832.64	98.65	32.39	91.37	-7,436.44	1,210.05	6,210.68	6,085.19	125.49	49.491		
13,300.00	7,730.00	7,959.68	7,832.14	98.98	32.38	91.36	-7,436.45	1,210.05	6,126.01	5,999.94	126.07	48.592		
13,400.00	7,730.00	7,959.17	7,831.63	99.34	32.38	91.36	-7,436.45	1,210.04	6,041.80	5,915.13	126.67	47.697		
13,500.00	7,730.00	7,958.66	7,831.12	99.74	32.38	91.35	-7,436.45	1,210.03	5,958.07	5,830.79	127.29	46.808		
13,600.00	7,730.00	7,958.14	7,830.60	100.17	32.38	91.34	-7,436.45	1,210.02	5,874.86	5,746.94	127.92	45.924		
13,700.00	7,730.00	7,957.63	7,830.08	100.65	32.38	91.33	-7,436.46	1,210.02	5,792.18	5,663.59	128.58	45.046		
13,800.00	7,730.00	7,957.10	7,829.56	101.16	32.38	91.32	-7,436.46	1,210.01	5,710.05	5,580.79	129.26	44.174		
13,900.00	7,730.00	7,956.58	7,829.04	101.71	32.38	91.31	-7,436.46	1,210.00	5,628.50	5,498.54	129.96	43.308		
14,000.00	7,730.00	7,956.05	7,828.51	102.30	32.37	91.30	-7,436.47	1,209.99	5,547.55	5,416.87	130.69	42.449		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,730.00	7,955.51	7,827.97	102.93	32.37	91.29	-7,436.47	1,209.99	5,467.24	5,335.80	131.43	41.597		
14,200.00	7,730.00	7,954.98	7,827.44	103.60	32.37	91.28	-7,436.47	1,209.98	5,387.58	5,255.38	132.20	40.752		
14,300.00	7,730.00	7,954.44	7,826.89	104.32	32.37	91.27	-7,436.48	1,209.97	5,308.61	5,175.61	133.00	39.915		
14,400.00	7,730.00	7,953.89	7,826.35	105.07	32.37	91.26	-7,436.48	1,209.96	5,230.36	5,096.55	133.82	39.086		
14,500.00	7,730.00	7,953.34	7,825.80	105.86	32.37	91.25	-7,436.48	1,209.95	5,152.87	5,018.21	134.66	38.266		
14,600.00	7,730.00	7,952.79	7,825.25	106.70	32.37	91.24	-7,436.49	1,209.95	5,076.16	4,940.63	135.53	37.455		
14,700.00	7,730.00	7,952.23	7,824.69	107.57	32.36	91.23	-7,436.49	1,209.94	5,000.27	4,863.85	136.42	36.653		
14,800.00	7,730.00	7,951.67	7,824.13	108.48	32.36	91.22	-7,436.49	1,209.93	4,925.25	4,787.91	137.34	35.862		
14,900.00	7,730.00	7,951.11	7,823.57	109.43	32.36	91.21	-7,436.50	1,209.92	4,851.12	4,712.84	138.29	35.081		
15,000.00	7,730.00	7,950.54	7,823.00	110.42	32.36	91.21	-7,436.50	1,209.91	4,777.94	4,638.68	139.26	34.310		
15,100.00	7,730.00	7,949.97	7,822.43	111.43	32.36	91.20	-7,436.50	1,209.90	4,705.75	4,565.49	140.25	33.552		
15,200.00	7,730.00	7,949.39	7,821.85	112.49	32.36	91.18	-7,436.51	1,209.90	4,634.58	4,493.31	141.28	32.805		
15,300.00	7,730.00	7,948.81	7,821.27	113.57	32.35	91.17	-7,436.51	1,209.89	4,564.51	4,422.18	142.32	32.071		
15,400.00	7,730.00	7,948.23	7,820.69	114.68	32.35	91.16	-7,436.51	1,209.88	4,495.56	4,352.16	143.40	31.350		
15,500.00	7,730.00	7,947.64	7,820.10	115.82	32.35	91.15	-7,436.52	1,209.87	4,427.80	4,283.30	144.50	30.643		
15,600.00	7,730.00	7,947.04	7,819.50	116.99	32.35	91.14	-7,436.52	1,209.86	4,361.27	4,215.65	145.62	29.950		
15,700.00	7,730.00	7,946.44	7,818.90	118.19	32.35	91.13	-7,436.52	1,209.85	4,296.05	4,149.28	146.76	29.272		
15,800.00	7,730.00	7,945.84	7,818.30	119.41	32.35	91.12	-7,436.53	1,209.84	4,232.18	4,084.25	147.93	28.609		
15,900.00	7,730.00	7,945.23	7,817.69	120.65	32.34	91.11	-7,436.53	1,209.83	4,169.73	4,020.61	149.12	27.962		
16,000.00	7,730.00	7,944.62	7,817.08	121.91	32.34	91.10	-7,436.54	1,209.83	4,108.77	3,958.45	150.33	27.333		
16,100.00	7,730.00	7,944.01	7,816.47	123.20	32.34	91.09	-7,436.54	1,209.82	4,049.36	3,897.81	151.55	26.720		
16,200.00	7,730.00	7,943.39	7,815.85	124.50	32.34	91.08	-7,436.54	1,209.81	3,991.57	3,838.79	152.78	26.125		
16,300.00	7,730.00	7,942.76	7,815.22	125.82	32.34	91.07	-7,436.55	1,209.80	3,935.48	3,781.44	154.03	25.549		
16,400.00	7,730.00	7,942.13	7,814.59	127.16	32.34	91.06	-7,436.55	1,209.79	3,881.15	3,725.86	155.29	24.993		
16,500.00	7,730.00	7,941.49	7,813.95	128.52	32.33	91.05	-7,436.55	1,209.78	3,828.66	3,672.11	156.55	24.456		
16,600.00	7,730.00	7,940.85	7,813.31	129.89	32.33	91.04	-7,436.56	1,209.77	3,778.09	3,620.27	157.82	23.939		
16,700.00	7,730.00	7,940.21	7,812.67	131.27	32.33	91.02	-7,436.56	1,209.76	3,729.51	3,570.43	159.08	23.444		
16,800.00	7,730.00	7,939.56	7,812.02	132.67	32.33	91.01	-7,436.57	1,209.75	3,683.01	3,522.68	160.34	22.971		
16,900.00	7,730.00	7,938.90	7,811.36	134.09	32.33	91.00	-7,436.57	1,209.74	3,638.67	3,477.09	161.58	22.519		
17,000.00	7,730.00	7,938.24	7,810.70	135.51	32.33	90.99	-7,436.58	1,209.73	3,596.56	3,433.75	162.81	22.091		
17,100.00	7,730.00	7,937.58	7,810.04	136.95	32.32	90.98	-7,436.58	1,209.72	3,556.76	3,392.75	164.01	21.686		
17,200.00	7,730.00	7,936.91	7,809.37	138.40	32.32	90.97	-7,436.58	1,209.71	3,519.36	3,354.16	165.19	21.305		
17,300.00	7,730.00	7,936.23	7,808.69	139.85	32.32	90.96	-7,436.59	1,209.70	3,484.42	3,318.09	166.33	20.948		
17,400.00	7,730.00	7,940.25	7,812.71	141.32	32.33	91.03	-7,436.55	1,209.78	3,452.01	3,284.53	167.48	20.612		
17,500.00	7,730.00	7,939.41	7,811.87	142.80	32.33	91.01	-7,436.56	1,209.77	3,422.23	3,253.70	168.53	20.306		
17,600.00	7,730.00	7,938.57	7,811.03	144.28	32.33	91.00	-7,436.56	1,209.76	3,395.14	3,225.61	169.54	20.026		
17,700.00	7,730.00	7,937.72	7,810.18	145.78	32.33	90.98	-7,436.57	1,209.74	3,370.80	3,200.32	170.48	19.772		
17,800.00	7,730.00	7,936.87	7,809.33	147.28	32.32	90.97	-7,436.58	1,209.73	3,349.27	3,177.91	171.37	19.545		
17,900.00	7,730.00	7,936.01	7,808.47	148.79	32.32	90.95	-7,436.58	1,209.72	3,330.61	3,158.43	172.18	19.344		
18,000.00	7,730.00	7,935.15	7,807.61	150.31	32.32	90.94	-7,436.59	1,209.70	3,314.86	3,141.94	172.91	19.171		
18,100.00	7,730.00	7,934.28	7,806.74	151.83	32.32	90.92	-7,436.59	1,209.69	3,302.06	3,128.49	173.57	19.024		
18,200.00	7,730.00	7,933.41	7,805.87	153.37	32.31	90.91	-7,436.60	1,209.68	3,292.25	3,118.11	174.14	18.906		
18,300.00	7,730.00	7,932.53	7,804.99	154.90	32.31	90.89	-7,436.61	1,209.66	3,285.45	3,110.83	174.62	18.815		
18,400.00	7,730.00	7,931.65	7,804.11	156.45	32.31	90.88	-7,436.61	1,209.65	3,281.69	3,106.68	175.01	18.751		
18,473.45	7,730.00	7,931.00	7,803.46	157.59	32.31	90.86	-7,436.62	1,209.64	3,280.87	3,105.63	175.24	18.722 CC, ES		
18,500.00	7,730.00	7,930.77	7,803.23	158.00	32.31	90.86	-7,436.62	1,209.64	3,280.98	3,105.67	175.31	18.715		
18,600.00	7,730.00	7,929.88	7,802.34	159.55	32.30	90.84	-7,436.63	1,209.62	3,283.31	3,107.80	175.51	18.707 SF		
18,700.00	7,730.00	7,928.98	7,801.44	161.11	32.30	90.83	-7,436.63	1,209.61	3,288.68	3,113.06	175.62	18.726		
18,800.00	7,730.00	7,928.08	7,800.54	162.68	32.30	90.81	-7,436.64	1,209.60	3,297.08	3,121.45	175.63	18.772		
18,900.00	7,730.00	7,927.18	7,799.64	164.25	32.30	90.80	-7,436.65	1,209.58	3,308.48	3,132.93	175.55	18.846		
19,000.00	7,730.00	7,926.27	7,798.73	165.83	32.29	90.78	-7,436.65	1,209.57	3,322.85	3,147.48	175.38	18.947		
19,100.00	7,730.00	7,925.36	7,797.82	167.41	32.29	90.77	-7,436.66	1,209.56	3,340.16	3,165.04	175.11	19.074		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		74-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.00	7,730.00	7,924.44	7,796.90	168.99	32.29	90.75	-7,436.67	1,209.54	3,360.35	3,185.58	174.77	19.228	
19,300.00	7,730.00	7,923.51	7,795.98	170.58	32.29	90.73	-7,436.67	1,209.53	3,383.38	3,209.04	174.34	19.407	
19,400.00	7,730.00	7,922.59	7,795.05	172.17	32.28	90.72	-7,436.68	1,209.52	3,409.19	3,235.36	173.83	19.612	
19,430.54	7,730.00	7,922.30	7,794.76	172.66	32.28	90.71	-7,436.68	1,209.51	3,417.61	3,243.95	173.66	19.680	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	71.46	71.46	0.00	0.11	163.65	-7,136.25	2,093.58	7,437.17					
100.00	100.00	125.27	125.25	0.13	0.30	163.66	-7,136.32	2,092.69	7,436.82	7,436.40	0.43	N/A		
102.60	102.60	126.61	126.60	0.14	0.30	163.66	-7,136.32	2,092.67	7,436.82	7,436.38	0.44	N/A		
200.00	200.00	188.15	188.13	0.49	0.52	163.67	-7,136.83	2,091.68	7,437.12	7,436.10	1.01	7,341.508		
300.00	300.00	293.41	293.30	0.85	0.90	163.70	-7,138.39	2,088.02	7,437.57	7,435.81	1.75	4,239.682		
400.00	400.00	372.49	372.22	1.21	1.20	163.74	-7,140.18	2,083.10	7,438.02	7,435.62	2.41	3,090.292		
500.00	500.00	440.00	439.46	1.57	1.45	163.78	-7,142.58	2,077.68	7,439.11	7,436.09	3.02	2,461.962		
600.00	599.98	440.00	439.46	1.92	1.45	98.39	-7,142.58	2,077.68	7,441.18	7,437.80	3.38	2,203.992		
700.00	699.84	482.35	481.57	2.28	1.62	98.37	-7,144.78	2,073.80	7,444.64	7,440.74	3.90	1,910.222		
800.00	799.45	533.00	531.84	2.64	1.82	98.35	-7,148.45	2,068.73	7,449.82	7,445.36	4.46	1,670.562		
900.00	898.70	533.00	531.84	3.02	1.82	98.22	-7,148.45	2,068.73	7,456.20	7,451.37	4.84	1,542.025		
1,000.00	997.47	572.60	571.05	3.41	1.99	98.15	-7,151.96	2,064.48	7,464.15	7,458.76	5.39	1,384.396		
1,100.00	1,095.62	625.00	622.85	3.84	2.21	98.10	-7,157.18	2,058.52	7,473.48	7,467.45	6.02	1,240.413		
1,200.00	1,193.06	625.00	622.85	4.29	2.21	97.88	-7,157.18	2,058.52	7,484.16	7,477.68	6.47	1,156.398		
1,300.00	1,289.64	680.92	677.97	4.78	2.45	97.81	-7,163.56	2,051.58	7,496.08	7,488.88	7.19	1,041.847		
1,400.00	1,385.27	717.00	713.42	5.32	2.61	97.67	-7,168.15	2,046.69	7,509.46	7,501.58	7.87	953.855		
1,500.00	1,479.82	717.00	713.42	5.90	2.61	97.37	-7,168.15	2,046.69	7,524.37	7,515.93	8.44	891.748		
1,600.00	1,573.17	764.43	759.84	6.53	2.84	97.23	-7,174.90	2,039.73	7,540.51	7,531.24	9.27	813.399		
1,700.00	1,665.21	809.00	803.25	7.23	3.05	97.07	-7,182.07	2,032.56	7,558.33	7,548.19	10.14	745.256		
1,800.00	1,755.84	809.00	803.25	7.98	3.05	96.68	-7,182.07	2,032.56	7,577.39	7,566.53	10.86	697.763		
1,900.00	1,844.94	809.00	803.25	8.80	3.05	96.26	-7,182.07	2,032.56	7,598.12	7,586.49	11.63	653.162		
2,000.00	1,932.39	844.75	837.90	9.68	3.24	95.99	-7,188.43	2,026.54	7,620.11	7,607.47	12.64	602.814		
2,100.00	2,018.11	861.07	853.69	10.63	3.32	95.60	-7,191.53	2,023.76	7,643.65	7,630.03	13.61	561.548		
2,200.00	2,101.97	898.00	889.29	11.65	3.51	95.29	-7,198.98	2,017.40	7,668.72	7,653.98	14.75	520.068		
2,300.00	2,183.88	898.00	889.29	12.74	3.51	94.75	-7,198.98	2,017.40	7,694.95	7,679.19	15.75	488.440		
2,400.00	2,263.74	898.00	889.29	13.90	3.51	94.17	-7,198.98	2,017.40	7,722.65	7,705.83	16.82	459.086		
2,431.61	2,288.54	898.00	889.29	14.29	3.51	93.98	-7,198.98	2,017.40	7,731.71	7,714.53	17.17	450.289		
2,500.00	2,341.97	898.00	889.29	15.13	3.51	93.98	-7,198.98	2,017.40	7,751.73	7,733.80	17.93	432.231		
2,600.00	2,420.08	946.59	935.97	16.37	3.78	94.28	-7,209.51	2,008.98	7,781.53	7,762.21	19.31	402.886		
2,700.00	2,498.20	965.27	953.88	17.63	3.89	94.39	-7,213.74	2,005.74	7,812.52	7,791.99	20.54	380.393		
2,800.00	2,576.32	1,011.00	997.61	18.89	4.14	94.67	-7,224.48	1,997.79	7,844.68	7,822.78	21.90	358.161		
2,900.00	2,654.43	1,011.00	997.61	20.17	4.14	94.67	-7,224.48	1,997.79	7,877.56	7,854.54	23.02	342.156		
3,000.00	2,732.55	1,011.00	997.61	21.45	4.14	94.67	-7,224.48	1,997.79	7,911.56	7,887.43	24.14	327.759		
3,100.00	2,810.67	1,011.00	997.61	22.74	4.14	94.67	-7,224.48	1,997.79	7,946.68	7,921.43	25.25	314.765		
3,200.00	2,888.78	1,055.12	1,039.68	24.03	4.40	94.93	-7,235.39	1,990.19	7,982.49	7,955.90	26.59	300.237		
3,300.00	2,966.90	1,100.00	1,082.35	25.33	4.67	95.20	-7,247.05	1,982.63	8,019.56	7,991.63	27.93	287.131		
3,400.00	3,045.02	1,100.00	1,082.35	26.63	4.67	95.20	-7,247.05	1,982.63	8,057.29	8,028.28	29.01	277.710		
3,500.00	3,123.13	1,100.00	1,082.35	27.94	4.67	95.20	-7,247.05	1,982.63	8,096.08	8,065.99	30.09	269.097		
3,600.00	3,201.25	1,128.13	1,109.05	29.24	4.84	95.37	-7,254.62	1,977.99	8,135.77	8,104.46	31.31	259.886		
3,700.00	3,279.37	1,148.10	1,127.97	30.55	4.96	95.49	-7,260.10	1,974.77	8,176.36	8,143.89	32.47	251.820		
3,800.00	3,357.49	1,187.00	1,164.81	31.86	5.19	95.72	-7,271.02	1,968.67	8,217.89	8,184.16	33.73	243.627		
3,900.00	3,435.60	1,187.00	1,164.81	33.18	5.19	95.72	-7,271.02	1,968.67	8,260.16	8,225.40	34.76	237.634		
4,000.00	3,513.72	1,187.00	1,164.81	34.49	5.19	95.72	-7,271.02	1,968.67	8,303.42	8,267.64	35.78	232.094		
4,100.00	3,591.84	1,222.97	1,198.77	35.81	5.42	95.93	-7,281.44	1,963.03	8,347.39	8,310.40	36.99	225.668		
4,200.00	3,669.95	1,240.14	1,214.94	37.12	5.53	96.03	-7,286.53	1,960.28	8,392.28	8,354.20	38.08	220.372		
4,300.00	3,748.07	1,275.00	1,247.66	38.44	5.75	96.24	-7,297.11	1,954.56	8,438.06	8,398.79	39.27	214.883		
4,400.00	3,826.19	1,275.00	1,247.66	39.76	5.75	96.24	-7,297.11	1,954.56	8,484.54	8,444.30	40.24	210.874		
4,500.00	3,904.30	1,300.62	1,271.64	41.08	5.92	96.39	-7,305.04	1,950.30	8,531.86	8,490.51	41.34	206.362		
4,600.00	3,982.42	1,328.18	1,297.42	42.40	6.10	96.56	-7,313.65	1,945.72	8,579.90	8,537.45	42.45	202.100		
4,700.00	4,060.54	1,362.00	1,329.01	43.72	6.32	96.76	-7,324.34	1,940.12	8,628.67	8,585.08	43.59	197.948		
4,800.00	4,138.66	1,390.82	1,355.91	45.05	6.51	96.93	-7,333.52	1,935.30	8,678.11	8,633.42	44.69	194.198		
4,900.00	4,216.77	1,427.99	1,390.54	46.37	6.77	97.14	-7,345.42	1,928.95	8,728.18	8,682.36	45.82	190.472		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	1,449.00	1,410.10	47.69	6.91	97.27	-7,352.17	1,925.29	8,778.90	8,732.05	46.85	187.389		
5,100.00	4,373.01	1,449.00	1,410.10	49.02	6.91	97.27	-7,352.17	1,925.29	8,830.43	8,782.70	47.73	185.016		
5,200.00	4,451.12	1,489.34	1,447.55	50.34	7.19	97.51	-7,365.34	1,918.16	8,882.48	8,833.63	48.85	181.816		
5,300.00	4,529.24	1,505.64	1,462.65	51.67	7.31	97.60	-7,370.78	1,915.25	8,935.35	8,885.54	49.81	179.373		
5,400.00	4,607.36	1,537.00	1,491.60	52.99	7.53	97.79	-7,381.40	1,909.59	8,988.97	8,938.11	50.86	176.739		
5,500.00	4,685.47	1,537.00	1,491.60	54.32	7.53	97.79	-7,381.40	1,909.59	9,043.20	8,991.51	51.69	174.951		
5,600.00	4,763.59	1,537.00	1,491.60	55.64	7.53	97.79	-7,381.40	1,909.59	9,098.21	9,045.70	52.51	173.278		
5,700.00	4,841.71	1,537.00	1,491.60	56.97	7.53	97.79	-7,381.40	1,909.59	9,153.98	9,100.67	53.31	171.712		
5,800.00	4,919.83	1,574.88	1,526.43	58.30	7.81	98.01	-7,394.60	1,902.69	9,210.16	9,155.81	54.36	169.441		
5,900.00	4,997.94	1,587.05	1,537.58	59.62	7.90	98.08	-7,398.95	1,900.45	9,267.17	9,211.95	55.22	167.828		
6,000.00	5,076.06	1,624.00	1,571.29	60.95	8.17	98.30	-7,412.42	1,893.60	9,324.97	9,268.74	56.24	165.817		
6,100.00	5,154.18	1,624.00	1,571.29	62.28	8.17	98.30	-7,412.42	1,893.60	9,383.18	9,326.18	56.99	164.638		
6,200.00	5,232.29	1,624.00	1,571.29	63.61	8.17	98.30	-7,412.42	1,893.60	9,442.08	9,384.34	57.74	163.537		
6,300.00	5,310.41	1,624.00	1,571.29	64.93	8.17	98.30	-7,412.42	1,893.60	9,501.67	9,443.20	58.47	162.510		
6,400.00	5,388.53	1,656.53	1,600.86	66.26	8.42	98.48	-7,424.57	1,887.56	9,561.77	9,502.35	59.42	160.930		
6,500.00	5,466.64	1,673.51	1,616.25	67.59	8.55	98.58	-7,431.00	1,884.41	9,622.48	9,562.24	60.24	159.725		
6,600.00	5,544.76	1,711.00	1,650.17	68.92	8.84	98.80	-7,445.39	1,877.50	9,683.82	9,622.62	61.21	158.214		
6,700.00	5,622.88	1,711.00	1,650.17	70.25	8.84	98.80	-7,445.39	1,877.50	9,745.59	9,683.70	61.89	157.454		
6,800.00	5,701.00	1,736.90	1,673.56	71.58	9.04	98.95	-7,455.43	1,872.69	9,807.94	9,745.18	62.76	156.282		
6,900.00	5,779.11	1,770.19	1,703.58	72.91	9.30	99.14	-7,468.37	1,866.40	9,870.74	9,807.07	63.66	155.044		
7,000.00	5,857.23	2,192.73	2,087.12	74.23	12.62	101.53	-7,625.85	1,785.19	9,933.75	9,866.40	67.35	147.491		
7,100.00	5,935.35	2,235.00	2,125.78	75.56	12.94	101.77	-7,640.81	1,776.90	9,995.47	9,927.16	68.31	146.316		
10,400.00	7,730.00	8,433.00	8,062.15	98.84	43.56	95.23	-8,717.52	1,119.79	9,946.58	9,829.24	117.34	84.764		
10,500.00	7,730.00	8,433.00	8,062.15	98.61	43.56	95.23	-8,717.52	1,119.79	9,852.59	9,735.01	117.59	83.790		
10,600.00	7,730.00	8,433.00	8,062.15	98.39	43.56	95.23	-8,717.52	1,119.79	9,758.72	9,640.88	117.84	82.815		
10,700.00	7,730.00	8,433.00	8,062.15	98.18	43.56	95.23	-8,717.52	1,119.79	9,664.97	9,546.88	118.09	81.841		
10,800.00	7,730.00	8,433.00	8,062.15	97.99	43.56	95.23	-8,717.52	1,119.79	9,571.35	9,452.99	118.36	80.866		
10,900.00	7,730.00	8,433.00	8,062.15	97.81	43.56	95.23	-8,717.52	1,119.79	9,477.86	9,359.23	118.63	79.892		
11,000.00	7,730.00	8,433.00	8,062.15	97.64	43.56	95.23	-8,717.52	1,119.79	9,384.50	9,265.59	118.91	78.918		
11,100.00	7,730.00	8,433.00	8,062.15	97.50	43.56	95.23	-8,717.52	1,119.79	9,291.29	9,172.08	119.20	77.945		
11,200.00	7,730.00	8,433.00	8,062.15	97.36	43.56	95.23	-8,717.52	1,119.79	9,198.21	9,078.71	119.50	76.971		
11,300.00	7,730.00	8,398.25	8,027.41	97.24	43.50	94.64	-8,718.34	1,119.20	9,105.15	8,985.45	119.70	76.064		
11,400.00	7,730.00	8,396.92	8,026.08	97.14	43.49	94.62	-8,718.37	1,119.18	9,012.36	8,892.35	120.01	75.094		
11,500.00	7,730.00	8,395.57	8,024.73	97.06	43.49	94.60	-8,718.41	1,119.16	8,919.73	8,799.39	120.34	74.124		
11,600.00	7,730.00	8,394.19	8,023.36	96.98	43.49	94.57	-8,718.44	1,119.14	8,827.25	8,706.59	120.67	73.154		
11,700.00	7,730.00	8,392.80	8,021.97	96.93	43.49	94.55	-8,718.48	1,119.12	8,734.95	8,613.94	121.01	72.186		
11,800.00	7,730.00	8,391.39	8,020.55	96.90	43.48	94.53	-8,718.52	1,119.09	8,642.81	8,521.45	121.36	71.218		
11,900.00	7,730.00	8,389.95	8,019.12	96.88	43.48	94.50	-8,718.56	1,119.07	8,550.85	8,429.13	121.72	70.251		
12,000.00	7,730.00	8,388.49	8,017.66	96.88	43.48	94.48	-8,718.60	1,119.05	8,459.07	8,336.98	122.09	69.285		
12,100.00	7,730.00	8,387.00	8,016.17	96.90	43.48	94.45	-8,718.64	1,119.03	8,367.48	8,245.01	122.48	68.320		
12,200.00	7,730.00	8,385.50	8,014.67	96.94	43.47	94.43	-8,718.68	1,119.01	8,276.09	8,153.21	122.87	67.356		
12,300.00	7,730.00	8,383.96	8,013.13	97.00	43.47	94.40	-8,718.72	1,118.98	8,184.89	8,061.61	123.28	66.393		
12,400.00	7,730.00	8,382.41	8,011.58	97.08	43.47	94.37	-8,718.77	1,118.96	8,093.90	7,970.20	123.70	65.432		
12,500.00	7,730.00	8,380.82	8,009.99	97.18	43.46	94.35	-8,718.81	1,118.94	8,003.13	7,879.00	124.13	64.472		
12,600.00	7,730.00	8,379.21	8,008.39	97.31	43.46	94.32	-8,718.86	1,118.92	7,912.58	7,788.00	124.58	63.514		
12,700.00	7,730.00	8,377.57	8,006.75	97.46	43.46	94.29	-8,718.91	1,118.89	7,822.25	7,697.21	125.04	62.558		
12,800.00	7,730.00	8,375.91	8,005.08	97.64	43.46	94.26	-8,718.96	1,118.87	7,732.17	7,606.65	125.52	61.603		
12,900.00	7,730.00	8,374.22	8,003.39	97.85	43.45	94.24	-8,719.01	1,118.85	7,642.33	7,516.32	126.01	60.650		
13,000.00	7,730.00	8,372.49	8,001.67	98.09	43.45	94.21	-8,719.06	1,118.83	7,552.75	7,426.24	126.51	59.700		
13,100.00	7,730.00	8,370.74	7,999.92	98.35	43.45	94.18	-8,719.11	1,118.80	7,463.43	7,336.39	127.03	58.752		
13,200.00	7,730.00	8,368.95	7,998.13	98.65	43.44	94.15	-8,719.16	1,118.78	7,374.38	7,246.81	127.57	57.806		
13,300.00	7,730.00	8,367.14	7,996.32	98.98	43.44	94.12	-8,719.22	1,118.75	7,285.62	7,157.49	128.13	56.863		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,400.00	7,730.00	8,365.29	7,994.47	99.34	43.44	94.09	-8,719.28	1,118.73	7,197.15	7,068.45	128.70	55.922		
13,500.00	7,730.00	8,363.41	7,992.59	99.74	43.43	94.05	-8,719.34	1,118.71	7,108.98	6,979.69	129.29	54.985		
13,600.00	7,730.00	8,361.49	7,990.67	100.17	43.43	94.02	-8,719.40	1,118.68	7,021.14	6,891.24	129.90	54.051		
13,700.00	7,730.00	8,359.54	7,988.72	100.65	43.43	93.99	-8,719.46	1,118.66	6,933.62	6,803.09	130.53	53.120		
13,800.00	7,730.00	8,357.55	7,986.73	101.16	43.42	93.95	-8,719.52	1,118.63	6,846.44	6,715.26	131.18	52.192		
13,900.00	7,730.00	8,355.52	7,984.71	101.71	43.42	93.92	-8,719.59	1,118.61	6,759.61	6,627.77	131.85	51.268		
14,000.00	7,730.00	8,353.46	7,982.65	102.30	43.41	93.88	-8,719.66	1,118.58	6,673.16	6,540.62	132.54	50.349		
14,100.00	7,730.00	8,351.36	7,980.54	102.93	43.41	93.85	-8,719.72	1,118.56	6,587.08	6,453.83	133.25	49.433		
14,200.00	7,730.00	8,349.21	7,978.40	103.60	43.41	93.81	-8,719.80	1,118.54	6,501.41	6,367.42	133.99	48.522		
14,300.00	7,730.00	8,347.02	7,976.22	104.32	43.40	93.78	-8,719.87	1,118.51	6,416.14	6,281.39	134.75	47.615		
14,400.00	7,730.00	8,344.79	7,973.99	105.07	43.40	93.74	-8,719.95	1,118.49	6,331.31	6,195.78	135.53	46.714		
14,500.00	7,730.00	8,342.52	7,971.71	105.86	43.39	93.70	-8,720.02	1,118.46	6,246.92	6,110.58	136.34	45.817		
14,600.00	7,730.00	8,340.20	7,969.40	106.70	43.39	93.66	-8,720.10	1,118.44	6,163.00	6,025.82	137.18	44.926		
14,700.00	7,730.00	8,337.83	7,967.03	107.57	43.39	93.62	-8,720.19	1,118.41	6,079.57	5,941.53	138.04	44.041		
14,800.00	7,730.00	8,335.42	7,964.62	108.48	43.38	93.58	-8,720.27	1,118.39	5,996.64	5,857.71	138.93	43.162		
14,900.00	7,730.00	8,332.95	7,962.15	109.43	43.38	93.54	-8,720.36	1,118.36	5,914.24	5,774.38	139.85	42.289		
15,000.00	7,730.00	8,330.44	7,959.64	110.42	43.37	93.49	-8,720.45	1,118.33	5,832.38	5,691.58	140.80	41.423		
15,100.00	7,730.00	8,327.86	7,957.07	111.43	43.37	93.45	-8,720.54	1,118.31	5,751.10	5,609.32	141.78	40.564		
15,200.00	7,730.00	8,325.24	7,954.45	112.49	43.36	93.41	-8,720.64	1,118.28	5,670.42	5,527.63	142.79	39.712		
15,300.00	7,730.00	8,322.56	7,951.77	113.57	43.36	93.36	-8,720.74	1,118.26	5,590.35	5,446.52	143.83	38.868		
15,400.00	7,730.00	8,319.82	7,949.03	114.68	43.35	93.31	-8,720.84	1,118.23	5,510.94	5,366.04	144.90	38.032		
15,500.00	7,730.00	8,317.01	7,946.23	115.82	43.35	93.27	-8,720.95	1,118.21	5,432.21	5,286.20	146.01	37.204		
15,600.00	7,730.00	8,314.15	7,943.36	116.99	43.34	93.22	-8,721.06	1,118.18	5,354.18	5,207.03	147.15	36.386		
15,700.00	7,730.00	8,311.22	7,940.44	118.19	43.34	93.17	-8,721.17	1,118.16	5,276.89	5,128.57	148.33	35.576		
15,800.00	7,730.00	8,308.22	7,937.44	119.41	43.33	93.12	-8,721.29	1,118.14	5,200.38	5,050.84	149.54	34.777		
15,900.00	7,730.00	8,305.16	7,934.38	120.65	43.33	93.07	-8,721.41	1,118.11	5,124.67	4,973.88	150.78	33.987		
16,000.00	7,730.00	8,302.02	7,931.25	121.91	43.32	93.01	-8,721.54	1,118.09	5,049.80	4,897.74	152.06	33.208		
16,100.00	7,730.00	8,298.81	7,928.04	123.20	43.32	92.96	-8,721.67	1,118.06	4,975.82	4,822.43	153.38	32.440		
16,200.00	7,730.00	8,295.52	7,924.75	124.50	43.31	92.90	-8,721.81	1,118.04	4,902.75	4,748.01	154.74	31.684		
16,300.00	7,730.00	8,292.15	7,921.38	125.82	43.30	92.85	-8,721.95	1,118.02	4,830.65	4,674.51	156.13	30.939		
16,400.00	7,730.00	8,288.70	7,917.94	127.16	43.30	92.79	-8,722.09	1,118.00	4,759.55	4,601.99	157.57	30.207		
16,500.00	7,730.00	8,285.16	7,914.40	128.52	43.29	92.73	-8,722.24	1,117.97	4,689.51	4,530.47	159.03	29.488		
16,600.00	7,730.00	8,284.65	7,923.88	129.89	43.31	92.89	-8,721.70	1,117.98	4,620.52	4,459.92	160.60	28.770		
16,700.00	7,730.00	8,288.09	7,917.32	131.27	43.30	92.78	-8,722.02	1,117.96	4,552.74	4,390.61	162.13	28.081		
16,800.00	7,730.00	8,281.65	7,910.90	132.67	43.28	92.67	-8,722.34	1,117.93	4,486.15	4,322.46	163.69	27.406		
16,900.00	7,730.00	8,275.36	7,904.60	134.09	43.27	92.56	-8,722.64	1,117.91	4,420.82	4,255.53	165.29	26.745		
17,000.00	7,730.00	8,269.19	7,898.44	135.51	43.26	92.46	-8,722.94	1,117.88	4,356.79	4,189.87	166.93	26.100		
17,100.00	7,730.00	8,263.14	7,892.41	136.95	43.25	92.35	-8,723.23	1,117.86	4,294.14	4,125.54	168.59	25.470		
17,200.00	7,730.00	8,257.22	7,886.49	138.40	43.24	92.25	-8,723.51	1,117.84	4,232.91	4,062.62	170.29	24.857		
17,300.00	7,730.00	8,251.42	7,880.69	139.85	43.23	92.15	-8,723.78	1,117.81	4,173.17	4,001.15	172.01	24.261		
17,400.00	7,730.00	8,245.73	7,875.01	141.32	43.22	92.06	-8,724.04	1,117.79	4,114.99	3,941.22	173.77	23.681		
17,500.00	7,730.00	8,240.15	7,869.43	142.80	43.21	91.96	-8,724.29	1,117.77	4,058.43	3,882.89	175.54	23.120		
17,600.00	7,730.00	8,234.68	7,863.97	144.28	43.20	91.87	-8,724.54	1,117.75	4,003.57	3,826.24	177.33	22.577		
17,700.00	7,730.00	8,229.31	7,858.61	145.78	43.19	91.78	-8,724.78	1,117.73	3,950.47	3,771.33	179.13	22.053		
17,800.00	7,730.00	8,224.04	7,853.35	147.28	43.18	91.69	-8,725.01	1,117.71	3,899.20	3,718.25	180.95	21.548		
17,900.00	7,730.00	8,218.88	7,848.19	148.79	43.17	91.60	-8,725.24	1,117.69	3,849.85	3,667.08	182.77	21.064		
18,000.00	7,730.00	8,213.81	7,843.12	150.31	43.16	91.52	-8,725.46	1,117.67	3,802.48	3,617.89	184.59	20.600		
18,100.00	7,730.00	8,208.83	7,838.15	151.83	43.15	91.43	-8,725.68	1,117.65	3,757.17	3,570.77	186.40	20.157		
18,200.00	7,730.00	8,203.94	7,833.27	153.37	43.14	91.35	-8,725.89	1,117.63	3,713.99	3,525.79	188.20	19.735		
18,300.00	7,730.00	8,199.15	7,828.47	154.90	43.14	91.27	-8,726.09	1,117.61	3,673.02	3,483.05	189.97	19.335		
18,400.00	7,730.00	8,194.44	7,823.77	156.45	43.13	91.19	-8,726.29	1,117.59	3,634.34	3,442.62	191.72	18.957		
18,500.00	7,730.00	8,189.81	7,819.14	158.00	43.12	91.11	-8,726.48	1,117.57	3,598.02	3,404.59	193.43	18.601		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,600.00	7,730.00	8,185.26	7,814.60	159.55	43.11	91.03	-8,726.67	1,117.56	3,564.12	3,369.03	195.09	18.269	
18,700.00	7,730.00	8,180.79	7,810.14	161.11	43.10	90.95	-8,726.85	1,117.54	3,532.73	3,336.03	196.70	17.960	
18,800.00	7,730.00	8,176.40	7,805.75	162.68	43.10	90.88	-8,727.03	1,117.52	3,503.91	3,305.66	198.25	17.674	
18,900.00	7,730.00	8,172.09	7,801.44	164.25	43.09	90.81	-8,727.20	1,117.50	3,477.72	3,278.00	199.72	17.413	
19,000.00	7,730.00	8,167.85	7,797.20	165.83	43.08	90.73	-8,727.37	1,117.49	3,454.22	3,253.11	201.12	17.175	
19,100.00	7,730.00	8,163.68	7,793.04	167.41	43.07	90.66	-8,727.53	1,117.47	3,433.47	3,231.05	202.42	16.962	
19,200.00	7,730.00	8,159.58	7,788.94	168.99	43.07	90.59	-8,727.69	1,117.46	3,415.52	3,211.89	203.63	16.773	
19,300.00	7,730.00	8,155.55	7,784.91	170.58	43.06	90.53	-8,727.85	1,117.44	3,400.41	3,195.67	204.74	16.608	
19,400.00	7,730.00	8,151.58	7,780.95	172.17	43.05	90.46	-8,728.00	1,117.42	3,388.18	3,182.45	205.74	16.469	
19,430.54	7,730.00	8,150.39	7,779.75	172.66	43.05	90.44	-8,728.05	1,117.42	3,385.03	3,179.01	206.02	16.431	CC, ES, SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	45.17	45.17	0.00	0.07	163.69	-7,154.09	2,093.67	7,454.18					
100.00	100.00	115.13	115.13	0.13	0.25	163.69	-7,153.87	2,093.78	7,453.98	7,453.59	0.39	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.69	-7,154.22	2,093.45	7,454.45	7,453.52	0.92	8,084.084		
300.00	300.00	211.96	211.95	0.85	0.59	163.70	-7,154.94	2,092.91	7,455.60	7,454.16	1.44	5,167.705		
400.00	400.00	257.00	256.97	1.21	0.75	163.70	-7,155.99	2,092.26	7,457.45	7,455.49	1.96	3,805.954		
500.00	500.00	299.45	299.38	1.57	0.90	163.71	-7,157.39	2,091.37	7,460.06	7,457.59	2.47	3,019.452		
600.00	599.98	349.00	348.86	1.92	1.08	98.31	-7,159.66	2,089.81	7,463.74	7,460.74	3.00	2,485.778		
700.00	699.84	378.88	378.67	2.28	1.19	98.24	-7,161.35	2,088.61	7,468.70	7,465.24	3.47	2,154.505		
800.00	799.45	440.00	439.57	2.64	1.42	98.19	-7,165.54	2,085.62	7,475.07	7,471.02	4.05	1,843.826		
900.00	898.70	440.00	439.57	3.02	1.42	98.04	-7,165.54	2,085.62	7,482.64	7,478.21	4.43	1,689.205		
1,000.00	997.47	484.79	484.14	3.41	1.60	97.94	-7,169.26	2,083.19	7,491.60	7,486.61	4.99	1,500.820		
1,100.00	1,095.62	533.00	532.05	3.84	1.78	97.83	-7,173.93	2,080.60	7,502.08	7,496.48	5.59	1,341.772		
1,200.00	1,193.06	533.00	532.05	4.29	1.78	97.59	-7,173.93	2,080.60	7,513.85	7,507.82	6.04	1,244.481		
1,300.00	1,289.64	583.48	582.13	4.78	1.99	97.46	-7,179.53	2,077.62	7,526.95	7,520.24	6.72	1,120.891		
1,400.00	1,385.27	625.00	623.23	5.32	2.16	97.30	-7,184.67	2,074.73	7,541.42	7,534.02	7.40	1,019.377		
1,500.00	1,479.82	656.69	654.54	5.90	2.29	97.08	-7,188.90	2,072.25	7,557.17	7,549.08	8.09	933.921		
1,600.00	1,573.17	695.14	692.45	6.53	2.46	96.88	-7,194.35	2,068.88	7,574.19	7,565.33	8.86	854.704		
1,700.00	1,665.21	717.00	713.96	7.23	2.55	96.59	-7,197.61	2,066.79	7,592.50	7,582.89	9.62	789.636		
1,800.00	1,755.84	756.82	753.08	7.98	2.74	96.36	-7,203.88	2,062.71	7,612.10	7,601.59	10.50	724.645		
1,900.00	1,844.94	809.00	804.14	8.80	2.98	96.17	-7,212.84	2,056.86	7,633.19	7,621.69	11.50	663.487		
2,000.00	1,932.39	809.00	804.14	9.68	2.98	95.72	-7,212.84	2,056.86	7,655.38	7,643.04	12.34	620.558		
2,100.00	2,018.11	809.00	804.14	10.63	2.98	95.23	-7,212.84	2,056.86	7,679.14	7,665.91	13.23	580.591		
2,200.00	2,101.97	858.42	852.32	11.65	3.22	94.97	-7,222.08	2,050.83	7,703.96	7,689.55	14.40	534.870		
2,300.00	2,183.88	898.00	890.75	12.74	3.42	94.65	-7,229.99	2,045.68	7,730.25	7,714.65	15.60	495.652		
2,400.00	2,263.74	898.00	890.75	13.90	3.42	94.08	-7,229.99	2,045.68	7,757.71	7,741.05	16.67	465.480		
2,431.61	2,288.54	898.00	890.75	14.29	3.42	93.89	-7,229.99	2,045.68	7,766.69	7,749.68	17.02	456.447		
2,500.00	2,341.97	898.00	890.75	15.13	3.42	93.89	-7,229.99	2,045.68	7,786.55	7,768.77	17.78	437.917		
2,600.00	2,420.08	932.26	923.92	16.37	3.60	94.09	-7,237.27	2,041.13	7,816.27	7,797.19	19.07	409.818		
2,700.00	2,498.20	947.47	938.62	17.63	3.68	94.18	-7,240.64	2,039.13	7,847.12	7,826.84	20.27	387.053		
2,800.00	2,576.32	986.00	975.76	18.89	3.88	94.40	-7,249.59	2,034.11	7,879.14	7,857.55	21.59	364.967		
2,900.00	2,654.43	986.00	975.76	20.17	3.88	94.40	-7,249.59	2,034.11	7,911.91	7,889.20	22.71	348.356		
3,000.00	2,732.55	986.00	975.76	21.45	3.88	94.40	-7,249.59	2,034.11	7,945.80	7,921.97	23.83	333.434		
3,100.00	2,810.67	1,015.75	1,004.37	22.74	4.05	94.58	-7,256.81	2,030.35	7,980.64	7,955.55	25.09	318.074		
3,200.00	2,888.78	1,036.00	1,023.83	24.03	4.16	94.69	-7,261.84	2,027.90	8,016.43	7,990.13	26.30	304.820		
3,300.00	2,966.90	1,036.00	1,023.83	25.33	4.16	94.69	-7,261.84	2,027.90	8,053.23	8,025.83	27.39	293.971		
3,400.00	3,045.02	1,078.46	1,064.62	26.63	4.39	94.93	-7,272.66	2,023.17	8,090.77	8,062.07	28.69	281.959		
3,500.00	3,123.13	1,099.72	1,085.03	27.94	4.51	95.05	-7,278.22	2,021.04	8,129.28	8,099.40	29.88	272.051		
3,600.00	3,201.25	1,143.00	1,126.55	29.24	4.76	95.30	-7,289.81	2,017.22	8,168.76	8,137.58	31.18	262.022		
3,700.00	3,279.37	1,143.00	1,126.55	30.55	4.76	95.30	-7,289.81	2,017.22	8,208.93	8,176.70	32.23	254.671		
3,800.00	3,357.49	1,191.23	1,172.79	31.86	5.03	95.56	-7,302.99	2,013.38	8,249.94	8,216.41	33.53	246.045		
3,900.00	3,435.60	1,249.58	1,228.71	33.18	5.36	95.88	-7,319.01	2,008.86	8,291.57	8,256.70	34.87	237.765		
4,000.00	3,513.72	1,377.89	1,351.80	34.49	6.10	96.58	-7,353.82	1,998.90	8,333.54	8,296.96	36.58	227.828		
4,100.00	3,591.84	4,100.00	1,456.67	35.81	21.76	97.16	-7,382.50	1,989.87	8,375.33	8,325.83	49.49	169.219		
4,200.00	3,669.95	1,541.14	1,508.74	37.12	7.03	97.46	-7,396.64	1,985.18	8,417.58	8,378.09	39.48	213.197		
4,300.00	3,748.07	1,580.00	1,546.04	38.44	7.26	97.67	-7,406.93	1,981.63	8,460.54	8,419.85	40.70	207.897		
4,400.00	3,826.19	1,621.63	1,585.96	39.76	7.51	97.89	-7,418.06	1,977.65	8,504.17	8,462.25	41.92	202.882		
4,500.00	3,904.30	1,667.00	1,629.42	41.08	7.77	98.14	-7,430.28	1,973.13	8,548.42	8,505.27	43.15	198.116		
4,600.00	3,982.42	1,739.78	1,699.09	42.40	8.21	98.53	-7,449.91	1,965.56	8,593.18	8,548.65	44.53	192.996		
4,700.00	4,060.54	1,799.09	1,755.86	43.72	8.57	98.85	-7,465.86	1,959.23	8,638.38	8,592.56	45.82	188.533		
4,800.00	4,138.66	1,860.83	1,814.94	45.05	8.94	99.18	-7,482.50	1,952.57	8,684.09	8,636.97	47.12	184.306		
4,900.00	4,216.77	1,941.51	1,892.19	46.37	9.42	99.61	-7,504.14	1,944.02	8,730.19	8,681.67	48.52	179.948		
5,000.00	4,294.89	1,983.38	1,932.30	47.69	9.68	99.83	-7,515.41	1,939.78	8,776.77	8,727.09	49.68	176.653		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	5,100.00	2,139.74	49.02	27.81	100.94	-7,571.43	1,919.70	8,822.89	8,758.73	64.15	137.527		
5,200.00	4,451.12	2,225.89	2,165.39	50.34	11.11	101.08	-7,578.21	1,916.76	8,869.44	8,816.55	52.89	167.699		
5,300.00	4,529.24	2,251.82	2,190.26	51.67	11.26	101.22	-7,584.89	1,913.71	8,916.69	8,862.75	53.94	165.293		
5,400.00	4,607.36	2,401.14	2,333.43	52.99	12.15	102.00	-7,622.72	1,894.55	8,964.08	8,908.39	55.70	160.949		
5,500.00	4,685.47	2,428.01	2,359.22	54.32	12.31	102.14	-7,629.48	1,891.24	9,011.87	8,955.13	56.74	158.829		
5,600.00	4,763.59	5,600.00	2,514.06	55.64	30.75	102.96	-7,669.98	1,873.32	9,060.24	8,988.84	71.40	126.892		
5,700.00	4,841.71	2,627.00	2,550.62	56.97	13.48	103.15	-7,679.24	1,869.21	9,108.34	9,048.72	59.63	152.757		
5,800.00	4,919.83	2,670.25	2,592.26	58.30	13.74	103.37	-7,689.71	1,864.07	9,156.85	9,096.11	60.74	150.758		
5,900.00	4,997.94	2,714.00	2,634.25	59.62	14.00	103.59	-7,700.78	1,858.69	9,206.32	9,144.48	61.84	148.863		
6,000.00	5,076.06	2,714.00	2,634.25	60.95	14.00	103.59	-7,700.78	1,858.69	9,256.25	9,193.56	62.69	147.660		
6,100.00	5,154.18	2,789.47	2,706.61	62.28	14.45	103.97	-7,720.17	1,849.60	9,306.86	9,242.90	63.96	145.514		
6,200.00	5,232.29	2,988.50	2,898.14	63.61	15.62	104.95	-7,769.35	1,826.95	9,357.01	9,291.07	65.94	141.908		
6,300.00	5,310.41	3,004.19	2,913.25	64.93	15.71	105.03	-7,773.22	1,825.25	9,407.50	9,340.65	66.85	140.732		
6,400.00	5,388.53	3,029.76	2,937.87	66.26	15.86	105.15	-7,779.59	1,822.57	9,458.60	9,390.80	67.80	139.500		
6,500.00	5,466.64	3,064.00	2,970.81	67.59	16.06	105.32	-7,788.30	1,819.23	9,510.32	9,441.52	68.80	138.227		
6,600.00	5,544.76	3,105.30	3,010.53	68.92	16.31	105.51	-7,798.93	1,815.37	9,562.57	9,492.74	69.83	136.935		
6,700.00	5,622.88	3,162.69	3,065.72	70.25	16.65	105.78	-7,813.72	1,810.02	9,615.19	9,544.24	70.95	135.518		
6,800.00	5,701.00	3,207.17	3,108.47	71.58	16.91	105.99	-7,825.21	1,805.63	9,668.24	9,596.26	71.99	134.308		
6,900.00	5,779.11	3,253.03	3,152.49	72.91	17.18	106.21	-7,837.09	1,800.77	9,721.74	9,648.72	73.02	133.139		
7,000.00	5,857.23	3,303.65	3,201.07	74.23	17.49	106.45	-7,850.26	1,795.33	9,775.67	9,701.59	74.07	131.970		
7,100.00	5,935.35	3,355.67	3,250.98	75.56	17.80	106.69	-7,863.85	1,789.79	9,829.99	9,754.86	75.13	130.838		
7,200.00	6,013.46	3,409.08	3,302.22	76.89	18.12	106.94	-7,877.89	1,784.29	9,884.69	9,808.50	76.19	129.740		
7,300.00	6,091.58	3,642.05	3,526.35	78.22	19.49	108.00	-7,937.19	1,761.61	9,938.87	9,860.54	78.33	126.891		
7,400.00	6,169.70	3,675.00	3,558.11	79.55	19.68	108.15	-7,945.45	1,758.58	9,993.26	9,914.01	79.25	126.099		
9,800.00	7,730.00	8,009.95	7,842.00	100.56	35.50	91.76	-8,339.30	1,616.89	9,996.08	9,880.83	115.26	86.728		
9,900.00	7,730.00	8,009.05	7,841.10	100.24	35.50	91.74	-8,339.31	1,616.88	9,900.34	9,784.89	115.45	85.755		
10,000.00	7,730.00	8,008.16	7,840.22	99.93	35.50	91.72	-8,339.31	1,616.86	9,804.68	9,689.04	115.65	84.782		
10,100.00	7,730.00	8,007.29	7,839.34	99.64	35.49	91.70	-8,339.32	1,616.85	9,709.11	9,593.26	115.85	83.810		
10,200.00	7,730.00	8,006.43	7,838.49	99.36	35.49	91.69	-8,339.32	1,616.84	9,613.63	9,497.58	116.05	82.837		
10,300.00	7,730.00	8,005.59	7,837.64	99.09	35.49	91.67	-8,339.33	1,616.83	9,518.24	9,401.97	116.27	81.865		
10,400.00	7,730.00	10,400.00	7,736.25	98.84	41.91	89.65	-8,339.16	1,615.27	9,422.92	9,298.88	124.04	75.967		
10,500.00	7,730.00	10,500.00	7,737.01	98.61	42.17	89.66	-8,339.17	1,615.29	9,327.73	9,203.14	124.58	74.872		
10,600.00	7,730.00	10,600.00	7,737.77	98.39	42.44	89.68	-8,339.17	1,615.30	9,232.63	9,107.50	125.13	73.783		
10,700.00	7,730.00	10,700.00	7,738.54	98.18	42.72	89.69	-8,339.18	1,615.31	9,137.65	9,011.96	125.69	72.701		
10,800.00	7,730.00	10,800.00	7,739.30	97.99	42.99	89.71	-8,339.18	1,615.33	9,042.77	8,916.52	126.25	71.625		
10,900.00	7,730.00	10,900.00	7,740.06	97.81	43.26	89.72	-8,339.19	1,615.34	8,948.00	8,821.18	126.82	70.556		
11,000.00	7,730.00	11,000.00	7,740.82	97.64	43.53	89.74	-8,339.20	1,615.35	8,853.35	8,725.95	127.40	69.493		
11,100.00	7,730.00	11,100.00	7,741.58	97.50	43.80	89.75	-8,339.20	1,615.37	8,758.82	8,630.83	127.98	68.436		
11,200.00	7,730.00	11,200.00	7,742.34	97.36	44.07	89.77	-8,339.21	1,615.38	8,664.41	8,535.83	128.58	67.386		
11,300.00	7,730.00	11,300.00	7,743.10	97.24	44.34	89.78	-8,339.21	1,615.39	8,570.12	8,440.95	129.18	66.343		
11,400.00	7,730.00	11,400.00	7,743.87	97.14	44.61	89.80	-8,339.22	1,615.41	8,475.97	8,346.18	129.79	65.306		
11,500.00	7,730.00	11,500.00	7,744.63	97.06	44.88	89.81	-8,339.23	1,615.42	8,381.95	8,251.55	130.41	64.275		
11,600.00	7,730.00	11,600.00	7,745.39	96.98	45.15	89.83	-8,339.23	1,615.43	8,288.08	8,157.04	131.04	63.251		
11,700.00	7,730.00	11,700.00	7,746.15	96.93	45.42	89.84	-8,339.24	1,615.45	8,194.35	8,062.67	131.67	62.233		
11,800.00	7,730.00	11,800.00	7,746.91	96.90	45.70	89.86	-8,339.24	1,615.46	8,100.76	7,968.44	132.32	61.221		
11,900.00	7,730.00	11,900.00	7,747.67	96.88	45.97	89.87	-8,339.25	1,615.47	8,007.33	7,874.36	132.98	60.216		
12,000.00	7,730.00	12,000.00	7,748.43	96.88	46.24	89.89	-8,339.26	1,615.49	7,914.07	7,780.43	133.64	59.218		
12,100.00	7,730.00	12,100.00	7,749.20	96.90	46.51	89.90	-8,339.26	1,615.50	7,820.97	7,686.65	134.32	58.226		
12,200.00	7,730.00	12,200.00	7,749.96	96.94	46.78	89.92	-8,339.27	1,615.51	7,728.04	7,593.03	135.01	57.241		
12,300.00	7,730.00	12,300.00	7,750.72	97.00	47.05	89.93	-8,339.27	1,615.53	7,635.29	7,499.58	135.71	56.262		
12,400.00	7,730.00	12,400.00	7,751.48	97.08	47.33	89.95	-8,339.28	1,615.54	7,542.72	7,406.30	136.42	55.290		
12,500.00	7,730.00	7,989.85	7,821.90	97.18	35.45	91.36	-8,339.40	1,616.62	7,450.35	7,327.38	122.97	60.586		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,600.00	7,730.00	7,989.24	7,821.30	97.31	35.45	91.34	-8,339.40	1,616.62	7,358.18	7,234.78	123.40	59.631		
12,700.00	7,730.00	7,988.64	7,820.70	97.46	35.45	91.33	-8,339.40	1,616.61	7,266.21	7,142.38	123.83	58.677		
12,800.00	7,730.00	7,988.05	7,820.11	97.64	35.44	91.32	-8,339.41	1,616.60	7,174.46	7,050.17	124.29	57.726		
12,900.00	7,730.00	7,987.46	7,819.52	97.85	35.44	91.31	-8,339.41	1,616.59	7,082.93	6,958.18	124.75	56.776		
13,000.00	7,730.00	7,986.89	7,818.95	98.09	35.44	91.30	-8,339.41	1,616.59	6,991.63	6,866.40	125.23	55.829		
13,100.00	7,730.00	7,986.32	7,818.38	98.35	35.44	91.28	-8,339.41	1,616.58	6,900.57	6,774.84	125.73	54.884		
13,200.00	7,730.00	7,985.76	7,817.82	98.65	35.44	91.27	-8,339.42	1,616.57	6,809.77	6,683.52	126.24	53.942		
13,300.00	7,730.00	7,985.20	7,817.26	98.98	35.44	91.26	-8,339.42	1,616.56	6,719.22	6,592.45	126.77	53.002		
13,400.00	7,730.00	7,984.66	7,816.71	99.34	35.44	91.25	-8,339.42	1,616.56	6,628.95	6,501.63	127.32	52.065		
13,500.00	7,730.00	7,984.12	7,816.17	99.74	35.43	91.24	-8,339.42	1,616.55	6,538.96	6,411.07	127.89	51.131		
13,600.00	7,730.00	7,983.58	7,815.64	100.17	35.43	91.23	-8,339.43	1,616.54	6,449.27	6,320.80	128.47	50.200		
13,700.00	7,730.00	7,983.05	7,815.11	100.65	35.43	91.22	-8,339.43	1,616.53	6,359.88	6,230.80	129.08	49.273		
13,800.00	7,730.00	7,982.53	7,814.59	101.16	35.43	91.21	-8,339.43	1,616.53	6,270.81	6,141.11	129.70	48.349		
13,900.00	7,730.00	7,982.02	7,814.08	101.71	35.43	91.20	-8,339.43	1,616.52	6,182.08	6,051.74	130.34	47.429		
14,000.00	7,730.00	7,981.51	7,813.57	102.30	35.43	91.19	-8,339.43	1,616.51	6,093.70	5,962.68	131.01	46.513		
14,100.00	7,730.00	7,981.01	7,813.06	102.93	35.43	91.18	-8,339.44	1,616.51	6,005.68	5,873.98	131.70	45.601		
14,200.00	7,730.00	7,980.51	7,812.57	103.60	35.43	91.17	-8,339.44	1,616.50	5,918.04	5,785.62	132.41	44.694		
14,300.00	7,730.00	7,980.02	7,812.08	104.32	35.42	91.16	-8,339.44	1,616.49	5,830.80	5,697.65	133.15	43.791		
14,400.00	7,730.00	7,979.53	7,811.59	105.07	35.42	91.15	-8,339.44	1,616.49	5,743.97	5,610.06	133.91	42.894		
14,500.00	7,730.00	7,979.06	7,811.11	105.86	35.42	91.14	-8,339.44	1,616.48	5,657.58	5,522.88	134.70	42.001		
14,600.00	7,730.00	7,978.58	7,810.64	106.70	35.42	91.13	-8,339.44	1,616.47	5,571.65	5,436.13	135.52	41.115		
14,700.00	7,730.00	7,978.11	7,810.17	107.57	35.42	91.12	-8,339.45	1,616.47	5,486.19	5,349.83	136.36	40.234		
14,800.00	7,730.00	7,987.56	7,819.62	108.48	35.45	91.31	-8,339.36	1,616.57	5,401.21	5,263.93	137.29	39.343		
14,900.00	7,730.00	7,986.45	7,818.51	109.43	35.45	91.29	-8,339.37	1,616.56	5,316.78	5,178.59	138.18	38.476		
15,000.00	7,730.00	7,985.38	7,817.44	110.42	35.44	91.27	-8,339.38	1,616.55	5,232.89	5,093.78	139.11	37.616		
15,100.00	7,730.00	7,984.35	7,816.41	111.43	35.44	91.25	-8,339.39	1,616.54	5,149.58	5,009.51	140.07	36.764		
15,200.00	7,730.00	7,983.36	7,815.41	112.49	35.44	91.23	-8,339.39	1,616.52	5,066.88	4,925.81	141.07	35.919		
15,300.00	7,730.00	7,982.40	7,814.46	113.57	35.44	91.21	-8,339.40	1,616.51	4,984.80	4,842.71	142.09	35.082		
15,400.00	7,730.00	7,981.48	7,813.53	114.68	35.43	91.19	-8,339.40	1,616.50	4,903.40	4,760.24	143.15	34.253		
15,500.00	7,730.00	7,980.58	7,812.64	115.82	35.43	91.17	-8,339.41	1,616.49	4,822.69	4,678.44	144.25	33.433		
15,600.00	7,730.00	7,979.72	7,811.78	116.99	35.43	91.15	-8,339.41	1,616.48	4,742.71	4,597.33	145.38	32.623		
15,700.00	7,730.00	7,978.89	7,810.95	118.19	35.43	91.14	-8,339.42	1,616.47	4,663.51	4,516.96	146.55	31.822		
15,800.00	7,730.00	7,978.09	7,810.14	119.41	35.42	91.12	-8,339.42	1,616.46	4,585.13	4,437.37	147.76	31.032		
15,900.00	7,730.00	7,977.31	7,809.37	120.65	35.42	91.10	-8,339.43	1,616.45	4,507.60	4,358.59	149.00	30.252		
16,000.00	7,730.00	7,976.55	7,808.61	121.91	35.42	91.09	-8,339.43	1,616.44	4,430.96	4,280.68	150.28	29.484		
16,100.00	7,730.00	7,975.82	7,807.88	123.20	35.42	91.08	-8,339.44	1,616.43	4,355.28	4,203.67	151.61	28.728		
16,200.00	7,730.00	7,975.12	7,807.17	124.50	35.42	91.06	-8,339.44	1,616.42	4,280.59	4,127.63	152.97	27.984		
16,300.00	7,730.00	7,974.43	7,806.49	125.82	35.41	91.05	-8,339.44	1,616.41	4,206.96	4,052.59	154.37	27.253		
16,400.00	7,730.00	7,973.76	7,805.82	127.16	35.41	91.03	-8,339.45	1,616.40	4,134.43	3,978.62	155.81	26.536		
16,500.00	7,730.00	7,973.12	7,805.18	128.52	35.41	91.02	-8,339.45	1,616.39	4,063.07	3,905.79	157.29	25.833		
16,600.00	7,730.00	7,972.49	7,804.55	129.89	35.41	91.01	-8,339.45	1,616.39	3,992.94	3,834.14	158.80	25.144		
16,700.00	7,730.00	7,971.88	7,803.94	131.27	35.41	91.00	-8,339.46	1,616.38	3,924.10	3,763.75	160.35	24.472		
16,800.00	7,730.00	7,971.29	7,803.35	132.67	35.41	90.98	-8,339.46	1,616.37	3,856.63	3,694.69	161.94	23.815		
16,900.00	7,730.00	7,970.71	7,802.77	134.09	35.40	90.97	-8,339.46	1,616.36	3,790.60	3,627.04	163.56	23.176		
17,000.00	7,730.00	7,970.16	7,802.21	135.51	35.40	90.96	-8,339.46	1,616.36	3,726.08	3,560.87	165.21	22.554		
17,100.00	7,730.00	7,969.61	7,801.67	136.95	35.40	90.95	-8,339.47	1,616.35	3,663.15	3,496.26	166.89	21.950		
17,200.00	7,730.00	7,969.08	7,801.14	138.40	35.40	90.94	-8,339.47	1,616.34	3,601.90	3,433.31	168.59	21.365		
17,300.00	7,730.00	7,968.57	7,800.62	139.85	35.40	90.93	-8,339.47	1,616.34	3,542.41	3,372.10	170.31	20.800		
17,400.00	7,730.00	7,968.06	7,800.12	141.32	35.40	90.92	-8,339.47	1,616.33	3,484.78	3,312.74	172.05	20.255		
17,500.00	7,730.00	7,967.57	7,799.63	142.80	35.40	90.91	-8,339.48	1,616.32	3,429.10	3,255.31	173.79	19.731		
17,600.00	7,730.00	7,967.10	7,799.16	144.28	35.39	90.90	-8,339.48	1,616.32	3,375.46	3,199.92	175.54	19.229		
17,700.00	7,730.00	7,966.63	7,798.69	145.78	35.39	90.89	-8,339.48	1,616.31	3,323.97	3,146.68	177.28	18.750		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,800.00	7,730.00	7,966.18	7,798.24	147.28	35.39	90.88	-8,339.48	1,616.30	3,274.71	3,095.70	179.01	18.293	
17,900.00	7,730.00	7,965.74	7,797.80	148.79	35.39	90.87	-8,339.48	1,616.30	3,227.81	3,047.09	180.72	17.861	
18,000.00	7,730.00	7,965.31	7,797.36	150.31	35.39	90.87	-8,339.48	1,616.29	3,183.36	3,000.96	182.40	17.453	
18,100.00	7,730.00	7,964.90	7,796.95	151.83	35.39	90.86	-8,339.49	1,616.29	3,141.46	2,957.43	184.03	17.070	
18,200.00	7,730.00	7,964.57	7,796.63	153.37	35.39	90.85	-8,339.49	1,616.29	3,102.23	2,916.61	185.62	16.713	
18,300.00	7,730.00	7,964.25	7,796.31	154.90	35.39	90.84	-8,339.49	1,616.28	3,065.75	2,878.61	187.14	16.382	
18,400.00	7,730.00	7,963.93	7,795.99	156.45	35.38	90.84	-8,339.50	1,616.28	3,032.13	2,843.54	188.59	16.078	
18,500.00	7,730.00	7,963.62	7,795.68	158.00	35.38	90.83	-8,339.50	1,616.27	3,001.47	2,811.52	189.95	15.802	
18,600.00	7,730.00	7,963.31	7,795.37	159.55	35.38	90.83	-8,339.50	1,616.27	2,973.86	2,782.65	191.21	15.553	
18,700.00	7,730.00	7,963.00	7,795.06	161.11	35.38	90.82	-8,339.50	1,616.26	2,949.38	2,757.03	192.36	15.333	
18,800.00	7,730.00	7,962.70	7,794.76	162.68	35.38	90.81	-8,339.50	1,616.26	2,928.12	2,734.73	193.38	15.141	
18,900.00	7,730.00	7,962.39	7,794.45	164.25	35.38	90.81	-8,339.50	1,616.26	2,910.13	2,715.85	194.28	14.979	
19,000.00	7,730.00	7,962.09	7,794.15	165.83	35.38	90.80	-8,339.50	1,616.25	2,895.49	2,700.46	195.03	14.846	
19,100.00	7,730.00	7,961.80	7,793.86	167.41	35.38	90.80	-8,339.50	1,616.25	2,884.25	2,688.61	195.64	14.743	
19,200.00	7,730.00	7,961.50	7,793.56	168.99	35.38	90.79	-8,339.50	1,616.24	2,876.44	2,680.36	196.08	14.669	
19,300.00	7,730.00	7,961.21	7,793.27	170.58	35.38	90.78	-8,339.50	1,616.24	2,872.09	2,675.72	196.37	14.626	
19,374.96	7,730.00	7,960.99	7,793.05	171.78	35.38	90.78	-8,339.50	1,616.24	2,871.11	2,674.64	196.48	14.613 CC, ES	
19,400.00	7,730.00	7,960.92	7,792.98	172.17	35.38	90.78	-8,339.50	1,616.24	2,871.22	2,674.73	196.49	14.612 SF	
19,430.54	7,730.00	7,960.83	7,792.89	172.66	35.38	90.78	-8,339.50	1,616.23	2,871.65	2,675.15	196.50	14.614	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	22.11	22.11	0.00	0.04	163.53	-7,110.82	2,101.75	7,414.92					
100.00	100.00	114.25	114.25	0.13	0.19	163.53	-7,110.80	2,102.08	7,415.00	7,414.68	0.32	N/A		
200.00	200.00	186.40	186.39	0.49	0.41	163.52	-7,110.62	2,103.37	7,415.29	7,414.39	0.90	8,244.936		
300.00	300.00	226.00	225.93	0.85	0.56	163.51	-7,110.32	2,105.30	7,416.10	7,414.70	1.40	5,291.437		
400.00	400.00	265.41	265.25	1.21	0.71	163.49	-7,110.09	2,108.08	7,417.72	7,415.81	1.91	3,886.639		
500.00	500.00	318.00	317.60	1.57	0.91	163.45	-7,110.29	2,113.03	7,420.49	7,418.03	2.46	3,011.027		
600.00	599.98	318.00	317.60	1.92	0.91	98.02	-7,110.29	2,113.03	7,424.19	7,421.37	2.82	2,633.114		
700.00	699.84	393.88	393.00	2.28	1.20	97.89	-7,111.08	2,121.51	7,429.15	7,425.68	3.47	2,141.252		
800.00	799.45	957.92	944.49	2.64	3.89	97.34	-7,083.00	2,231.63	7,429.20	7,422.69	6.52	1,140.167		
825.51	824.81	958.91	945.45	2.74	3.90	97.34	-7,082.94	2,231.89	7,429.21	7,422.59	6.62	1,122.140		
900.00	898.70	993.65	978.85	3.02	4.09	97.29	-7,079.76	2,240.89	7,429.65	7,422.55	7.10	1,046.342		
1,000.00	997.47	1,049.40	1,032.39	3.41	4.41	97.20	-7,074.94	2,255.67	7,431.23	7,423.41	7.82	950.619		
1,100.00	1,095.62	1,129.99	1,109.92	3.84	4.88	97.10	-7,068.38	2,276.65	7,433.66	7,424.95	8.70	854.068		
1,200.00	1,193.06	1,221.14	1,197.86	4.29	5.40	97.01	-7,061.34	2,299.58	7,436.64	7,426.97	9.68	768.342		
1,300.00	1,289.64	1,281.99	1,256.27	4.78	5.76	96.93	-7,056.54	2,315.93	7,440.43	7,429.90	10.53	706.637		
1,400.00	1,385.27	1,405.67	1,374.58	5.32	6.51	96.84	-7,046.51	2,350.52	7,444.74	7,432.92	11.81	630.217		
1,500.00	1,479.82	1,469.00	1,435.35	5.90	6.89	96.77	-7,041.50	2,367.66	7,449.45	7,436.67	12.77	583.184		
1,600.00	1,573.17	1,529.12	1,493.04	6.53	7.25	96.69	-7,037.05	2,383.97	7,455.08	7,441.32	13.77	541.510		
1,700.00	1,665.21	1,623.39	1,583.46	7.23	7.82	96.64	-7,030.61	2,409.87	7,461.70	7,446.68	15.03	496.590		
1,800.00	1,755.84	1,747.73	1,702.46	7.98	8.59	96.64	-7,021.45	2,444.69	7,468.40	7,451.86	16.54	451.566		
1,900.00	1,844.94	1,876.64	1,825.93	8.80	9.38	96.68	-7,011.68	2,480.45	7,475.28	7,457.14	18.14	412.050		
2,000.00	1,932.39	1,979.44	1,924.64	9.68	10.00	96.71	-7,003.76	2,508.06	7,482.23	7,462.59	19.64	380.989		
2,100.00	2,018.11	2,097.49	2,038.03	10.63	10.71	96.79	-6,994.57	2,539.58	7,489.53	7,468.24	21.29	351.739		
2,200.00	2,101.97	2,168.00	2,105.79	11.65	11.13	96.79	-6,989.08	2,558.27	7,497.32	7,474.60	22.73	329.907		
2,300.00	2,183.88	2,222.51	2,158.16	12.74	11.46	96.75	-6,985.04	2,572.86	7,506.07	7,481.94	24.13	311.043		
2,400.00	2,263.74	2,400.00	2,248.74	13.90	12.57	96.81	-6,978.12	2,599.31	7,515.73	7,489.35	26.38	284.853		
2,431.61	2,288.54	2,432.42	2,359.03	14.29	12.77	97.06	-6,968.84	2,631.54	7,518.66	7,491.69	26.97	278.811		
2,500.00	2,341.97	2,430.00	2,356.71	15.13	12.75	97.06	-6,969.04	2,630.90	7,525.14	7,497.36	27.78	270.930		
2,600.00	2,420.08	2,483.71	2,408.24	16.37	13.08	97.21	-6,964.94	2,645.50	7,535.16	7,505.84	29.33	256.952		
2,700.00	2,498.20	2,517.00	2,440.09	17.63	13.29	97.30	-6,962.68	2,654.91	7,546.21	7,515.45	30.76	245.357		
2,800.00	2,576.32	2,559.11	2,480.37	18.89	13.55	97.42	-6,960.10	2,666.93	7,558.10	7,525.85	32.25	234.352		
2,900.00	2,654.43	2,604.00	2,523.36	20.17	13.83	97.54	-6,957.68	2,679.62	7,570.75	7,536.99	33.77	224.202		
3,000.00	2,732.55	2,705.25	2,620.04	21.45	14.47	97.82	-6,952.26	2,709.18	7,583.83	7,548.17	35.66	212.662		
3,100.00	2,810.67	2,832.94	2,742.28	22.74	15.27	98.18	-6,945.36	2,745.45	7,596.88	7,559.16	37.72	201.379		
3,200.00	2,888.78	2,909.09	2,815.15	24.03	15.74	98.39	-6,940.97	2,767.09	7,609.78	7,570.32	39.45	192.881		
3,300.00	2,966.90	2,984.65	2,887.45	25.33	16.21	98.59	-6,936.99	2,788.71	7,623.28	7,582.10	41.18	185.109		
3,400.00	3,045.02	3,185.15	3,079.06	26.63	17.48	99.14	-6,924.08	2,846.28	7,635.56	7,591.82	43.74	174.568		
3,500.00	3,123.13	3,278.20	3,167.94	27.94	18.07	99.39	-6,917.88	2,873.10	7,648.21	7,602.62	45.59	167.760		
3,600.00	3,201.25	3,366.55	3,252.91	29.24	18.59	99.64	-6,912.25	2,896.63	7,660.85	7,613.46	47.38	161.688		
3,700.00	3,279.37	3,544.68	3,426.20	30.55	19.55	100.20	-6,901.55	2,936.42	7,673.10	7,623.48	49.61	154.655		
3,800.00	3,357.49	3,629.05	3,508.93	31.86	19.96	100.48	-6,896.73	2,952.20	7,685.23	7,633.95	51.28	149.878		
3,900.00	3,435.60	3,701.55	3,580.35	33.18	20.28	100.74	-6,893.04	2,964.10	7,697.75	7,644.90	52.85	145.646		
4,000.00	3,513.72	3,781.47	3,659.36	34.49	20.62	101.03	-6,889.46	2,975.61	7,710.73	7,656.30	54.44	141.649		
4,100.00	3,591.84	3,866.95	3,763.97	35.81	21.03	101.43	-6,885.12	2,988.32	7,723.96	7,667.87	56.09	137.702		
4,200.00	3,669.95	3,966.37	3,842.94	37.12	21.32	101.74	-6,882.01	2,996.26	7,737.36	7,679.74	57.62	134.292		
4,300.00	3,748.07	4,043.60	3,919.83	38.44	21.58	102.05	-6,879.33	3,002.86	7,751.25	7,692.14	59.11	131.128		
4,400.00	3,826.19	4,119.71	3,995.70	39.76	21.83	102.36	-6,876.84	3,008.51	7,765.53	7,704.94	60.59	128.170		
4,500.00	3,904.30	4,188.73	4,064.55	41.08	22.05	102.65	-6,874.84	3,012.99	7,780.34	7,718.31	62.03	125.436		
4,600.00	3,982.42	4,285.06	4,160.68	42.40	22.35	103.05	-6,872.10	3,018.54	7,795.50	7,731.96	63.54	122.686		
4,700.00	4,060.54	4,373.53	4,248.99	43.72	22.62	103.42	-6,869.61	3,023.01	7,810.99	7,745.97	65.02	120.137		
4,800.00	4,138.66	4,479.72	4,355.01	45.05	22.94	103.86	-6,866.40	3,028.12	7,826.66	7,760.12	66.54	117.621		
4,900.00	4,216.77	4,577.68	4,452.82	46.37	23.23	104.28	-6,863.24	3,032.45	7,842.54	7,774.51	68.03	115.277		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,663.04	4,538.06	47.69	23.49	104.63	-6,860.40	3,035.85	7,858.69	7,789.22	69.47	113.118		
5,100.00	4,373.01	4,741.42	4,616.35	49.02	23.72	104.97	-6,857.84	3,038.69	7,875.25	7,804.37	70.88	111.099		
5,200.00	4,451.12	4,859.78	4,734.59	50.34	24.06	105.47	-6,853.89	3,042.52	7,892.16	7,819.76	72.41	108.997		
5,300.00	4,529.24	4,994.50	4,869.14	51.67	24.45	106.03	-6,848.39	3,046.51	7,908.77	7,834.81	73.97	106.924		
5,400.00	4,607.36	5,073.46	4,948.00	52.99	24.68	106.37	-6,845.02	3,048.44	7,925.64	7,850.29	75.35	105.181		
5,500.00	4,685.47	5,136.00	5,010.47	54.32	24.86	106.63	-6,842.39	3,049.68	7,942.95	7,866.26	76.68	103.581		
5,600.00	4,763.59	5,179.48	5,053.91	55.64	24.98	106.82	-6,840.72	3,050.43	7,960.96	7,883.01	77.95	102.131		
5,700.00	4,841.71	5,215.47	5,089.88	56.97	25.08	106.97	-6,839.56	3,051.04	7,979.83	7,900.65	79.18	100.779		
5,800.00	4,919.83	5,251.31	5,125.70	58.30	25.18	107.13	-6,838.60	3,051.61	7,999.55	7,919.15	80.40	99.492		
5,900.00	4,997.94	5,310.00	5,184.37	59.62	25.35	107.38	-6,837.47	3,052.51	8,020.19	7,938.50	81.68	98.185		
6,000.00	5,076.06	5,310.00	5,184.37	60.95	25.35	107.38	-6,837.47	3,052.51	8,041.54	7,958.76	82.78	97.148		
6,100.00	5,154.18	5,360.53	5,234.89	62.28	25.49	107.59	-6,836.90	3,053.27	8,063.74	7,979.73	84.01	95.985		
6,200.00	5,232.29	5,397.74	5,272.10	63.61	25.59	107.75	-6,836.70	3,053.85	8,086.77	8,001.57	85.19	94.924		
6,300.00	5,310.41	5,434.85	5,309.20	64.93	25.69	107.91	-6,836.70	3,054.44	8,110.60	8,024.24	86.36	93.913		
6,400.00	5,388.53	5,485.00	5,359.35	66.26	25.82	108.12	-6,837.00	3,055.26	8,135.26	8,047.70	87.57	92.904		
6,500.00	5,466.64	5,533.15	5,407.49	67.59	25.95	108.32	-6,837.47	3,056.01	8,160.59	8,071.85	88.75	91.951		
6,600.00	5,544.76	5,600.00	5,598.96	68.92	28.80	109.13	-6,838.54	3,057.95	8,186.32	8,093.58	92.74	88.267		
6,700.00	5,622.88	5,910.78	5,785.07	70.25	26.96	109.91	-6,836.77	3,059.13	8,211.05	8,119.06	91.99	89.261		
6,800.00	5,701.00	5,978.36	5,852.65	71.58	27.15	110.20	-6,835.67	3,059.48	8,235.55	8,142.33	93.22	88.343		
6,900.00	5,779.11	6,053.03	5,927.31	72.91	27.36	110.51	-6,834.55	3,059.85	8,260.53	8,166.05	94.47	87.441		
7,000.00	5,857.23	6,133.55	6,007.82	74.23	27.58	110.84	-6,833.33	3,060.18	8,285.88	8,190.15	95.73	86.556		
7,100.00	5,935.35	6,219.94	6,094.20	75.56	27.82	111.20	-6,831.99	3,060.46	8,311.59	8,214.59	97.00	85.689		
7,200.00	6,013.46	6,315.73	6,189.97	76.89	28.09	111.60	-6,830.34	3,060.64	8,337.54	8,239.25	98.29	84.828		
7,300.00	6,091.58	6,410.68	6,284.91	78.22	28.36	111.99	-6,828.51	3,060.70	8,363.70	8,264.14	99.57	84.000		
7,400.00	6,169.70	6,505.16	6,379.37	79.55	28.63	112.37	-6,826.51	3,060.78	8,390.10	8,289.26	100.84	83.203		
7,500.00	6,247.81	6,605.96	6,480.14	80.88	28.92	112.79	-6,824.16	3,060.97	8,416.69	8,314.56	102.13	82.414		
7,600.00	6,325.93	6,709.81	6,583.95	82.21	29.22	113.20	-6,821.46	3,061.41	8,443.42	8,340.00	103.42	81.643		
7,700.00	6,404.05	6,776.51	6,650.62	83.54	29.41	113.47	-6,819.68	3,061.76	8,470.45	8,365.86	104.59	80.990		
7,800.00	6,482.17	6,844.11	6,718.21	84.87	29.61	113.74	-6,817.96	3,062.11	8,497.94	8,392.19	105.75	80.359		
7,900.00	6,560.28	6,907.97	6,782.04	86.20	29.80	114.00	-6,816.44	3,062.42	8,525.90	8,419.01	106.89	79.762		
8,000.00	6,638.40	6,967.00	6,841.06	87.53	29.97	114.23	-6,815.15	3,062.68	8,554.38	8,446.37	108.01	79.200		
8,100.00	6,716.52	7,025.89	6,899.94	88.86	30.14	114.47	-6,814.00	3,062.90	8,583.39	8,474.27	109.12	78.662		
8,200.00	6,794.63	7,089.98	6,964.02	90.20	30.33	114.72	-6,812.89	3,063.10	8,612.91	8,502.67	110.24	78.131		
8,300.00	6,872.75	7,159.72	7,033.75	91.53	30.54	114.99	-6,811.78	3,063.42	8,642.87	8,531.50	111.37	77.607		
8,400.00	6,950.87	7,229.54	7,103.56	92.86	30.75	115.26	-6,810.74	3,063.83	8,673.24	8,560.74	112.49	77.101		
8,500.00	7,028.98	7,297.46	7,171.48	94.19	30.95	115.53	-6,809.81	3,064.27	8,704.03	8,590.42	113.60	76.618		
8,600.00	7,107.10	7,365.23	7,239.24	95.52	31.16	115.79	-6,808.97	3,064.66	8,735.24	8,620.53	114.71	76.153		
8,647.91	7,144.53	7,397.66	7,271.66	96.16	31.25	115.92	-6,808.60	3,064.83	8,750.34	8,635.11	115.23	75.937		
8,650.00	7,146.16	7,399.07	7,273.08	96.18	31.26	115.67	-6,808.58	3,064.84	8,751.00	8,635.75	115.26	75.927		
8,700.00	7,185.66	7,442.66	7,316.66	96.84	31.39	109.51	-6,808.09	3,065.07	8,764.61	8,648.76	115.85	75.656		
8,750.00	7,225.78	7,489.34	7,363.34	97.47	31.53	102.97	-6,807.53	3,065.36	8,774.05	8,657.59	116.46	75.337		
8,800.00	7,266.21	7,536.39	7,410.38	98.08	31.67	96.24	-6,806.94	3,065.68	8,779.27	8,662.18	117.09	74.979		
8,850.00	7,306.63	7,583.42	7,457.40	98.64	31.82	89.56	-6,806.32	3,066.05	8,780.22	8,662.50	117.72	74.587		
8,900.00	7,346.75	7,619.17	7,493.16	99.17	31.93	83.12	-6,805.85	3,066.34	8,776.94	8,658.64	118.30	74.193		
8,950.00	7,386.25	7,655.07	7,529.05	99.64	32.04	77.18	-6,805.39	3,066.63	8,769.47	8,650.60	118.87	73.775		
9,000.00	7,424.84	7,690.10	7,564.07	100.06	32.14	71.86	-6,804.96	3,066.92	8,757.86	8,638.44	119.42	73.338		
9,050.00	7,462.22	7,723.99	7,597.96	100.42	32.25	67.23	-6,804.56	3,067.19	8,742.21	8,622.26	119.94	72.886		
9,100.00	7,498.11	7,756.61	7,630.58	100.74	32.35	63.31	-6,804.18	3,067.46	8,722.62	8,602.18	120.44	72.423		
9,150.00	7,532.24	7,789.93	7,663.90	100.99	32.45	60.08	-6,803.81	3,067.74	8,699.23	8,578.31	120.91	71.946		
9,200.00	7,564.34	7,821.27	7,695.23	101.19	32.55	57.52	-6,803.46	3,068.03	8,672.21	8,550.86	121.35	71.463		
9,250.00	7,594.17	7,850.36	7,724.32	101.34	32.64	55.59	-6,803.14	3,068.31	8,641.75	8,520.00	121.75	70.978		
9,300.00	7,621.50	7,876.99	7,750.95	101.45	32.72	54.28	-6,802.85	3,068.59	8,608.08	8,485.96	122.11	70.492		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,900.95	7,774.90	101.50	32.79	53.61	-6,802.60	3,068.85	8,571.43	8,449.00	122.43	70.008		
9,400.00	7,667.87	7,922.05	7,796.00	101.51	32.86	53.62	-6,802.38	3,069.09	8,532.08	8,409.37	122.72	69.528		
9,450.00	7,686.55	7,942.81	7,816.76	101.48	32.92	54.47	-6,802.16	3,069.34	8,490.32	8,367.35	122.97	69.046		
9,500.00	7,702.04	7,961.27	7,835.21	101.42	32.98	56.38	-6,801.96	3,069.56	8,446.43	8,323.24	123.18	68.568		
9,550.00	7,714.20	7,975.59	7,849.53	101.33	33.03	59.82	-6,801.80	3,069.73	8,400.74	8,277.38	123.36	68.099		
9,600.00	7,722.96	7,985.67	7,859.61	101.20	33.06	65.71	-6,801.69	3,069.85	8,353.60	8,230.11	123.50	67.642		
9,650.00	7,728.24	7,991.45	7,865.39	101.06	33.08	76.01	-6,801.62	3,069.93	8,305.36	8,181.76	123.60	67.196		
9,699.97	7,730.00	7,992.90	7,866.84	100.90	33.08	94.54	-6,801.60	3,069.94	8,256.39	8,132.72	123.67	66.763		
9,800.00	7,730.00	7,991.48	7,865.42	100.56	33.08	94.48	-6,801.62	3,069.93	8,157.89	8,034.11	123.77	65.911		
9,900.00	7,730.00	7,990.06	7,864.00	100.24	33.07	94.42	-6,801.63	3,069.91	8,059.45	7,935.57	123.88	65.060		
10,000.00	7,730.00	7,988.66	7,862.60	99.93	33.07	94.37	-6,801.65	3,069.89	7,961.04	7,837.06	123.99	64.208		
10,100.00	7,730.00	7,987.26	7,861.20	99.64	33.06	94.31	-6,801.67	3,069.87	7,862.68	7,738.58	124.10	63.357		
10,200.00	7,730.00	7,985.86	7,859.80	99.36	33.06	94.25	-6,801.68	3,069.86	7,764.36	7,640.14	124.22	62.505		
10,300.00	7,730.00	7,984.47	7,858.42	99.09	33.05	94.20	-6,801.70	3,069.84	7,666.09	7,541.75	124.34	61.654		
10,400.00	7,730.00	7,983.09	7,857.03	98.84	33.05	94.14	-6,801.71	3,069.82	7,567.86	7,443.39	124.47	60.803		
10,500.00	7,730.00	7,981.72	7,855.66	98.61	33.05	94.09	-6,801.73	3,069.81	7,469.67	7,345.08	124.59	59.952		
10,600.00	7,730.00	7,980.35	7,854.29	98.39	33.04	94.03	-6,801.75	3,069.79	7,371.54	7,246.81	124.73	59.101		
10,700.00	7,730.00	7,978.99	7,852.93	98.18	33.04	93.98	-6,801.76	3,069.77	7,273.45	7,148.59	124.87	58.250		
10,800.00	7,730.00	7,977.64	7,851.58	97.99	33.03	93.92	-6,801.78	3,069.76	7,175.42	7,050.41	125.01	57.400		
10,900.00	7,730.00	7,976.29	7,850.23	97.81	33.03	93.87	-6,801.79	3,069.74	7,077.44	6,952.29	125.15	56.550		
11,000.00	7,730.00	7,974.95	7,848.89	97.64	33.03	93.82	-6,801.81	3,069.72	6,979.52	6,854.21	125.31	55.700		
11,100.00	7,730.00	7,973.61	7,847.56	97.50	33.02	93.76	-6,801.82	3,069.71	6,881.66	6,756.20	125.46	54.850		
11,200.00	7,730.00	7,972.29	7,846.23	97.36	33.02	93.71	-6,801.84	3,069.69	6,783.86	6,658.23	125.62	54.001		
11,300.00	7,730.00	7,970.96	7,844.91	97.24	33.01	93.66	-6,801.85	3,069.68	6,686.12	6,560.33	125.79	53.152		
11,400.00	7,730.00	7,969.65	7,843.59	97.14	33.01	93.60	-6,801.87	3,069.66	6,588.46	6,462.49	125.97	52.304		
11,500.00	7,730.00	7,968.34	7,842.28	97.06	33.00	93.55	-6,801.88	3,069.64	6,490.86	6,364.72	126.14	51.456		
11,600.00	7,730.00	7,967.03	7,840.98	96.98	33.00	93.50	-6,801.90	3,069.63	6,393.34	6,267.01	126.33	50.608		
11,700.00	7,730.00	7,965.74	7,839.68	96.93	33.00	93.45	-6,801.91	3,069.61	6,295.90	6,169.38	126.52	49.761		
11,800.00	7,730.00	7,964.45	7,838.39	96.90	32.99	93.39	-6,801.93	3,069.60	6,198.54	6,071.81	126.72	48.915		
11,900.00	7,730.00	7,963.16	7,837.11	96.88	32.99	93.34	-6,801.94	3,069.58	6,101.26	5,974.33	126.93	48.069		
12,000.00	7,730.00	7,961.88	7,835.83	96.88	32.98	93.29	-6,801.95	3,069.57	6,004.07	5,876.93	127.14	47.224		
12,100.00	7,730.00	7,960.61	7,834.55	96.90	32.98	93.24	-6,801.97	3,069.55	5,906.97	5,779.61	127.36	46.379		
12,200.00	7,730.00	7,959.34	7,833.29	96.94	32.98	93.19	-6,801.98	3,069.54	5,809.98	5,682.39	127.59	45.536		
12,300.00	7,730.00	7,958.08	7,832.03	97.00	32.97	93.14	-6,802.00	3,069.52	5,713.08	5,585.25	127.83	44.693		
12,400.00	7,730.00	7,956.83	7,830.77	97.08	32.97	93.09	-6,802.01	3,069.51	5,616.30	5,488.22	128.08	43.851		
12,500.00	7,730.00	7,955.58	7,829.52	97.18	32.96	93.04	-6,802.02	3,069.49	5,519.63	5,391.30	128.33	43.010		
12,600.00	7,730.00	7,954.33	7,828.28	97.31	32.96	92.99	-6,802.04	3,069.48	5,423.08	5,294.48	128.60	42.170		
12,700.00	7,730.00	7,953.09	7,827.04	97.46	32.96	92.94	-6,802.05	3,069.46	5,326.66	5,197.78	128.88	41.331		
12,800.00	7,730.00	7,951.86	7,825.81	97.64	32.95	92.89	-6,802.06	3,069.45	5,230.37	5,101.20	129.17	40.493		
12,900.00	7,730.00	7,950.64	7,824.58	97.85	32.95	92.84	-6,802.08	3,069.43	5,134.22	5,004.76	129.47	39.657		
13,000.00	7,730.00	7,949.41	7,823.36	98.09	32.94	92.79	-6,802.09	3,069.42	5,038.23	4,908.45	129.78	38.822		
13,100.00	7,730.00	7,948.20	7,822.15	98.35	32.94	92.74	-6,802.10	3,069.40	4,942.39	4,812.28	130.10	37.988		
13,200.00	7,730.00	7,946.99	7,820.94	98.65	32.94	92.69	-6,802.12	3,069.39	4,846.72	4,716.28	130.44	37.156		
13,300.00	7,730.00	7,945.78	7,819.73	98.98	32.93	92.64	-6,802.13	3,069.37	4,751.22	4,620.43	130.79	36.326		
13,400.00	7,730.00	7,944.59	7,818.53	99.34	32.93	92.60	-6,802.14	3,069.36	4,655.92	4,524.76	131.16	35.497		
13,500.00	7,730.00	7,943.39	7,817.34	99.74	32.93	92.55	-6,802.15	3,069.34	4,560.82	4,429.27	131.55	34.671		
13,600.00	7,730.00	7,942.20	7,816.15	100.17	32.92	92.50	-6,802.17	3,069.33	4,465.93	4,333.98	131.95	33.846		
13,700.00	7,730.00	7,941.02	7,814.97	100.65	32.92	92.45	-6,802.18	3,069.32	4,371.27	4,238.90	132.37	33.024		
13,800.00	7,730.00	7,939.84	7,813.79	101.16	32.91	92.41	-6,802.19	3,069.30	4,276.85	4,144.04	132.81	32.204		
13,900.00	7,730.00	7,938.67	7,812.62	101.71	32.91	92.36	-6,802.21	3,069.29	4,182.69	4,049.43	133.26	31.387		
14,000.00	7,730.00	7,937.50	7,811.45	102.30	32.91	92.31	-6,802.22	3,069.27	4,088.81	3,955.06	133.74	30.572		
14,100.00	7,730.00	7,936.34	7,810.29	102.93	32.90	92.27	-6,802.23	3,069.26	3,995.22	3,860.97	134.25	29.761		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 134-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,935.19	7,809.13	103.60	32.90	92.22	-6,802.24	3,069.25	3,901.95	3,767.18	134.77	28.952		
14,300.00	7,730.00	7,934.04	7,807.98	104.32	32.90	92.17	-6,802.25	3,069.23	3,809.02	3,673.70	135.32	28.148		
14,400.00	7,730.00	7,932.89	7,806.84	105.07	32.89	92.13	-6,802.27	3,069.22	3,716.46	3,580.56	135.90	27.347		
14,500.00	7,730.00	7,931.75	7,805.70	105.86	32.89	92.08	-6,802.28	3,069.21	3,624.30	3,487.79	136.51	26.550		
14,600.00	7,730.00	7,930.61	7,804.56	106.70	32.89	92.03	-6,802.29	3,069.19	3,532.56	3,395.41	137.15	25.757		
14,700.00	7,730.00	7,929.48	7,803.43	107.57	32.88	91.99	-6,802.30	3,069.18	3,441.28	3,303.46	137.82	24.970		
14,800.00	7,730.00	7,928.39	7,802.34	108.48	32.88	91.95	-6,802.31	3,069.17	3,350.50	3,211.98	138.52	24.188		
14,900.00	7,730.00	7,927.34	7,801.28	109.43	32.88	91.90	-6,802.32	3,069.15	3,260.26	3,120.99	139.26	23.411		
15,000.00	7,730.00	7,926.28	7,800.23	110.42	32.87	91.86	-6,802.33	3,069.14	3,170.60	3,030.56	140.04	22.640		
15,100.00	7,730.00	7,925.22	7,799.17	111.43	32.87	91.82	-6,802.35	3,069.13	3,081.58	2,940.72	140.86	21.877		
15,200.00	7,730.00	7,924.16	7,798.10	112.49	32.87	91.78	-6,802.36	3,069.12	2,993.25	2,851.53	141.72	21.120		
15,300.00	7,730.00	7,923.09	7,797.04	113.57	32.86	91.73	-6,802.37	3,069.10	2,905.68	2,763.05	142.63	20.372		
15,400.00	7,730.00	7,922.03	7,795.98	114.68	32.86	91.69	-6,802.38	3,069.09	2,818.93	2,675.35	143.58	19.633		
15,500.00	7,730.00	7,920.96	7,794.91	115.82	32.86	91.65	-6,802.39	3,069.08	2,733.09	2,588.51	144.59	18.903		
15,600.00	7,730.00	7,919.90	7,793.85	116.99	32.85	91.60	-6,802.40	3,069.07	2,648.25	2,502.61	145.64	18.183		
15,700.00	7,730.00	7,918.83	7,792.78	118.19	32.85	91.56	-6,802.41	3,069.06	2,564.49	2,417.75	146.75	17.476		
15,800.00	7,730.00	7,917.76	7,791.71	119.41	32.85	91.52	-6,802.42	3,069.04	2,481.94	2,334.04	147.90	16.781		
15,900.00	7,730.00	7,916.69	7,790.64	120.65	32.84	91.47	-6,802.43	3,069.03	2,400.72	2,251.60	149.12	16.100		
16,000.00	7,730.00	7,915.62	7,789.57	121.91	32.84	91.43	-6,802.45	3,069.02	2,320.96	2,170.57	150.38	15.434		
16,100.00	7,730.00	7,914.55	7,788.50	123.20	32.84	91.39	-6,802.46	3,069.01	2,242.82	2,091.12	151.70	14.785		
16,200.00	7,730.00	7,913.48	7,787.43	124.50	32.83	91.35	-6,802.47	3,068.99	2,166.48	2,013.42	153.06	14.154		
16,300.00	7,730.00	7,912.40	7,786.35	125.82	32.83	91.30	-6,802.48	3,068.98	2,092.14	1,937.67	154.47	13.544		
16,400.00	7,730.00	7,911.33	7,785.28	127.16	32.83	91.26	-6,802.49	3,068.97	2,020.01	1,864.10	155.91	12.956		
16,500.00	7,730.00	7,910.25	7,784.20	128.52	32.82	91.22	-6,802.50	3,068.96	1,950.34	1,792.97	157.37	12.393		
16,600.00	7,730.00	7,909.17	7,783.12	129.89	32.82	91.17	-6,802.51	3,068.94	1,883.40	1,724.56	158.84	11.857		
16,700.00	7,730.00	7,908.09	7,782.04	131.27	32.82	91.13	-6,802.52	3,068.93	1,819.51	1,659.21	160.30	11.351		
16,800.00	7,730.00	7,907.01	7,780.96	132.67	32.81	91.09	-6,802.54	3,068.92	1,758.97	1,597.25	161.72	10.877		
16,900.00	7,730.00	7,905.93	7,779.88	134.09	32.81	91.04	-6,802.55	3,068.91	1,702.17	1,539.10	163.07	10.438		
17,000.00	7,730.00	7,904.84	7,778.80	135.51	32.81	91.00	-6,802.56	3,068.90	1,649.47	1,485.15	164.32	10.038		
17,100.00	7,730.00	7,903.76	7,777.71	136.95	32.80	90.95	-6,802.57	3,068.88	1,601.29	1,435.88	165.41	9.681		
17,200.00	7,730.00	7,902.67	7,776.63	138.40	32.80	90.91	-6,802.58	3,068.87	1,558.05	1,391.74	166.31	9.368		
17,300.00	7,730.00	7,901.59	7,775.54	139.85	32.80	90.87	-6,802.59	3,068.86	1,520.16	1,353.20	166.96	9.105		
17,400.00	7,730.00	7,900.50	7,774.45	141.32	32.79	90.82	-6,802.60	3,068.85	1,488.04	1,320.72	167.31	8.894		
17,500.00	7,730.00	7,899.41	7,773.36	142.80	32.79	90.78	-6,802.62	3,068.83	1,462.06	1,294.74	167.32	8.738		
17,600.00	7,730.00	7,898.32	7,772.27	144.28	32.79	90.74	-6,802.63	3,068.82	1,442.56	1,275.62	166.95	8.641		
17,700.00	7,730.00	7,897.23	7,771.18	145.78	32.78	90.69	-6,802.64	3,068.81	1,429.81	1,263.65	166.16	8.605 SF		
17,800.00	7,730.00	7,896.13	7,770.09	147.28	32.78	90.65	-6,802.65	3,068.80	1,423.98	1,259.01	164.97	8.632 ES		
17,833.20	7,730.00	7,895.77	7,769.72	147.78	32.78	90.63	-6,802.65	3,068.79	1,423.59	1,259.11	164.48	8.655 CC		
17,900.00	7,730.00	7,895.04	7,768.99	148.79	32.78	90.60	-6,802.66	3,068.79	1,425.16	1,261.79	163.36	8.724		
18,000.00	7,730.00	7,893.94	7,767.90	150.31	32.77	90.56	-6,802.67	3,068.77	1,433.33	1,271.94	161.39	8.881		
18,100.00	7,730.00	7,892.85	7,766.80	151.83	32.77	90.52	-6,802.69	3,068.76	1,448.37	1,289.28	159.10	9.104		
18,200.00	7,730.00	7,891.75	7,765.70	153.37	32.77	90.47	-6,802.70	3,068.75	1,470.08	1,313.54	156.54	9.391		
18,300.00	7,730.00	7,890.65	7,764.60	154.90	32.76	90.43	-6,802.71	3,068.74	1,498.16	1,344.37	153.80	9.741		
18,400.00	7,730.00	7,889.55	7,763.50	156.45	32.76	90.38	-6,802.72	3,068.73	1,532.27	1,381.33	150.93	10.152		
18,500.00	7,730.00	7,888.45	7,762.40	158.00	32.76	90.34	-6,802.73	3,068.71	1,572.00	1,423.98	148.02	10.620		
18,600.00	7,730.00	7,887.34	7,761.30	159.55	32.75	90.29	-6,802.74	3,068.70	1,616.95	1,471.83	145.12	11.142		
18,700.00	7,730.00	7,886.24	7,760.19	161.11	32.75	90.25	-6,802.76	3,068.69	1,666.70	1,524.41	142.28	11.714		
18,800.00	7,730.00	7,885.13	7,759.09	162.68	32.74	90.20	-6,802.77	3,068.68	1,720.82	1,581.27	139.55	12.331		
18,900.00	7,730.00	7,884.03	7,757.98	164.25	32.74	90.16	-6,802.78	3,068.67	1,778.92	1,641.96	136.95	12.989		
19,000.00	7,730.00	7,882.92	7,756.87	165.83	32.74	90.12	-6,802.79	3,068.65	1,840.62	1,706.11	134.51	13.684		
19,100.00	7,730.00	7,881.81	7,755.76	167.41	32.73	90.07	-6,802.80	3,068.64	1,905.58	1,773.34	132.24	14.410		
19,200.00	7,730.00	7,880.70	7,754.65	168.99	32.73	90.03	-6,802.81	3,068.63	1,973.46	1,843.32	130.14	15.164		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		134-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,879.58	7,753.54	170.58	32.73	89.98	-6,802.83	3,068.62	2,043.98	1,915.77	128.21	15.942	
19,400.00	7,730.00	7,878.47	7,752.43	172.17	32.72	89.94	-6,802.84	3,068.61	2,116.88	1,990.43	126.45	16.740	
19,430.54	7,730.00	7,878.13	7,752.09	172.66	32.72	89.92	-6,802.84	3,068.60	2,139.58	2,013.63	125.95	16.988	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	163.63	-7,146.88	2,099.78	7,449.00					
100.00	100.00	43.99	43.98	0.13	0.08	163.62	-7,146.98	2,100.28	7,449.63	7,449.42	0.20	N/A		
200.00	200.00	86.19	86.17	0.49	0.18	163.61	-7,147.27	2,101.63	7,451.13	7,450.48	0.65	N/A		
300.00	300.00	163.64	163.56	0.85	0.44	163.59	-7,148.03	2,104.51	7,453.12	7,451.83	1.29	5,783.765		
400.00	400.00	227.00	226.87	1.21	0.67	163.58	-7,148.85	2,106.88	7,455.46	7,453.58	1.88	3,973.267		
500.00	500.00	281.46	281.27	1.57	0.87	163.57	-7,149.84	2,109.00	7,458.35	7,455.92	2.43	3,066.392		
600.00	599.98	318.00	317.77	1.92	1.00	98.13	-7,150.73	2,110.53	7,462.22	7,459.30	2.92	2,556.451		
700.00	699.84	376.25	375.93	2.28	1.22	98.04	-7,152.42	2,113.51	7,467.26	7,463.77	3.49	2,141.777		
800.00	799.45	410.00	409.58	2.64	1.35	97.92	-7,153.51	2,115.68	7,473.52	7,469.55	3.97	1,881.209		
900.00	898.70	410.00	409.58	3.02	1.35	97.76	-7,153.51	2,115.68	7,481.44	7,477.09	4.35	1,720.371		
1,000.00	997.47	457.44	456.85	3.41	1.53	97.61	-7,155.65	2,119.07	7,490.43	7,485.51	4.92	1,522.895		
1,100.00	1,095.62	502.00	501.18	3.84	1.70	97.45	-7,158.67	2,122.48	7,501.35	7,495.84	5.50	1,363.522		
1,200.00	1,193.06	502.00	501.18	4.29	1.70	97.21	-7,158.67	2,122.48	7,513.39	7,507.44	5.95	1,263.128		
1,300.00	1,289.64	502.00	501.18	4.78	1.70	96.93	-7,158.67	2,122.48	7,527.18	7,520.75	6.43	1,170.690		
1,400.00	1,385.27	549.29	548.13	5.32	1.89	96.71	-7,162.74	2,126.49	7,542.13	7,535.00	7.13	1,057.732		
1,500.00	1,479.82	594.00	592.40	5.90	2.08	96.47	-7,167.20	2,130.82	7,558.66	7,550.79	7.87	960.945		
1,600.00	1,573.17	594.00	592.40	6.53	2.08	96.11	-7,167.20	2,130.82	7,576.36	7,567.89	8.48	893.611		
1,700.00	1,665.21	634.51	632.41	7.23	2.25	95.83	-7,171.62	2,135.31	7,595.40	7,586.09	9.30	816.306		
1,800.00	1,755.84	686.00	683.12	7.98	2.47	95.55	-7,177.57	2,141.99	7,615.74	7,605.51	10.23	744.442		
1,900.00	1,844.94	711.61	708.28	8.80	2.59	95.19	-7,180.61	2,145.69	7,637.10	7,625.99	11.11	687.117		
2,000.00	1,932.39	778.00	773.35	9.68	2.90	94.92	-7,188.39	2,156.28	7,659.39	7,647.16	12.23	626.142		
2,100.00	2,018.11	806.09	800.81	10.63	3.04	94.53	-7,191.74	2,161.13	7,682.65	7,669.40	13.25	579.646		
2,200.00	2,101.97	855.00	848.53	11.65	3.27	94.19	-7,198.02	2,169.88	7,707.16	7,692.73	14.43	534.074		
2,300.00	2,183.88	855.00	848.53	12.74	3.27	93.66	-7,198.02	2,169.88	7,732.65	7,717.20	15.45	500.525		
2,400.00	2,263.74	896.43	888.83	13.90	3.49	93.26	-7,203.72	2,177.57	7,759.28	7,742.55	16.73	463.912		
2,431.61	2,288.54	906.66	898.78	14.29	3.54	93.12	-7,205.17	2,179.51	7,767.91	7,750.79	17.13	453.535		
2,500.00	2,341.97	942.00	933.07	15.13	3.72	93.26	-7,210.33	2,186.31	7,786.94	7,768.87	18.07	430.939		
2,600.00	2,420.08	942.00	933.07	16.37	3.72	93.26	-7,210.33	2,186.31	7,815.45	7,796.24	19.21	406.870		
2,700.00	2,498.20	984.38	974.11	17.63	3.95	93.42	-7,216.87	2,194.63	7,844.78	7,824.21	20.56	381.528		
2,800.00	2,576.32	1,036.00	1,023.95	18.89	4.23	93.62	-7,225.46	2,204.94	7,875.16	7,853.19	21.97	358.454		
2,900.00	2,654.43	1,036.00	1,023.95	20.17	4.23	93.62	-7,225.46	2,204.94	7,906.16	7,883.05	23.11	342.074		
3,000.00	2,732.55	1,083.22	1,069.45	21.45	4.49	93.80	-7,233.73	2,214.46	7,938.05	7,913.55	24.50	323.996		
3,100.00	2,810.67	3,100.00	1,175.87	22.74	15.97	94.22	-7,253.21	2,236.25	7,970.23	7,935.01	35.22	226.278		
3,200.00	2,888.78	1,246.02	1,226.47	24.03	5.41	94.42	-7,262.33	2,246.56	8,002.57	7,974.92	27.65	289.428		
3,300.00	2,966.90	1,289.00	1,267.78	25.33	5.66	94.58	-7,270.14	2,255.48	8,035.81	8,006.79	29.02	276.911		
3,400.00	3,045.02	1,315.20	1,292.91	26.63	5.81	94.68	-7,275.02	2,261.07	8,069.75	8,039.46	30.30	266.369		
3,500.00	3,123.13	1,376.00	1,351.16	27.94	6.17	94.90	-7,286.52	2,274.17	8,104.34	8,072.57	31.77	255.117		
3,600.00	3,201.25	1,421.93	1,395.10	29.24	6.45	95.06	-7,295.35	2,284.19	8,139.45	8,106.30	33.15	245.514		
3,700.00	3,279.37	1,463.00	1,434.36	30.55	6.70	95.21	-7,303.33	2,293.26	8,175.11	8,140.60	34.51	236.923		
3,800.00	3,357.49	1,500.80	1,470.43	31.86	6.94	95.35	-7,310.85	2,301.70	8,211.44	8,175.60	35.84	229.141		
3,900.00	3,435.60	1,550.00	1,517.26	33.18	7.25	95.52	-7,321.07	2,312.78	8,248.60	8,211.37	37.23	221.548		
4,000.00	3,513.72	1,565.34	1,531.84	34.49	7.35	95.57	-7,324.34	2,316.27	8,286.37	8,247.96	38.41	215.733		
4,100.00	3,591.84	1,610.08	1,574.29	35.81	7.63	95.73	-7,333.99	2,326.58	8,324.83	8,285.06	39.77	209.321		
4,200.00	3,669.95	1,638.00	1,600.74	37.12	7.82	95.83	-7,340.09	2,333.12	8,363.90	8,322.88	41.02	203.923		
4,300.00	3,748.07	1,676.37	1,637.00	38.44	8.07	95.96	-7,348.68	2,342.22	8,403.64	8,361.31	42.33	198.548		
4,400.00	3,826.19	1,725.00	1,682.82	39.76	8.40	96.12	-7,360.01	2,353.95	8,444.20	8,400.50	43.70	193.230		
4,500.00	3,904.30	2,197.44	2,131.32	41.08	11.48	97.71	-7,459.37	2,463.96	8,483.26	8,435.32	47.95	176.931		
4,600.00	3,982.42	2,249.00	2,180.65	42.40	11.81	97.89	-7,469.16	2,475.32	8,520.55	8,471.20	49.35	172.644		
4,700.00	4,060.54	2,295.16	2,224.72	43.72	12.10	98.04	-7,478.07	2,485.76	8,558.38	8,507.66	50.72	168.722		
4,800.00	4,138.66	2,336.00	2,263.60	45.05	12.36	98.17	-7,486.14	2,495.32	8,596.84	8,544.79	52.05	165.152		
4,900.00	4,216.77	4,900.00	2,495.21	46.37	28.06	98.97	-7,533.75	2,548.96	8,635.98	8,569.40	66.57	129.722		
5,000.00	4,294.89	2,637.19	2,551.60	47.69	14.26	99.16	-7,544.56	2,561.21	8,673.53	8,617.35	56.18	154.385		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	2,685.00	2,597.41	49.02	14.55	99.32	-7,553.65	2,571.42	8,711.75	8,654.20	57.54	151.391		
5,200.00	4,451.12	2,716.48	2,627.50	50.34	14.76	99.42	-7,559.77	2,578.35	8,750.54	8,691.74	58.80	148.826		
5,300.00	4,529.24	2,909.31	2,811.21	51.67	16.00	100.02	-7,596.45	2,624.03	8,789.70	8,728.50	61.20	143.625		
5,400.00	4,607.36	2,979.42	2,878.07	52.99	16.45	100.23	-7,609.10	2,640.91	8,827.96	8,765.23	62.73	140.726		
5,500.00	4,685.47	3,035.00	2,931.12	54.32	16.81	100.40	-7,619.46	2,653.85	8,866.79	8,802.64	64.15	138.213		
5,600.00	4,763.59	3,035.00	2,931.12	55.64	16.81	100.40	-7,619.46	2,653.85	8,906.23	8,841.07	65.16	136.674		
5,700.00	4,841.71	3,088.54	2,982.17	56.97	17.15	100.56	-7,629.87	2,666.19	8,946.21	8,879.65	66.56	134.418		
5,800.00	4,919.83	3,122.00	3,014.01	58.30	17.37	100.67	-7,636.61	2,673.99	8,986.88	8,919.09	67.79	132.565		
5,900.00	4,997.94	3,151.42	3,041.96	59.62	17.57	100.75	-7,642.70	2,680.87	9,028.19	8,959.20	68.99	130.859		
6,000.00	5,076.06	3,181.70	3,070.68	60.95	17.77	100.85	-7,649.13	2,687.95	9,070.14	8,999.96	70.19	129.225		
6,100.00	5,154.18	3,209.00	3,096.56	62.28	17.95	100.93	-7,655.07	2,694.31	9,112.73	9,041.38	71.35	127.712		
6,200.00	5,232.29	3,209.00	3,096.56	63.61	17.95	100.93	-7,655.07	2,694.31	9,156.10	9,083.81	72.30	126.649		
6,300.00	5,310.41	3,255.62	3,140.63	64.93	18.27	101.07	-7,665.64	2,705.25	9,199.92	9,126.33	73.60	125.006		
6,400.00	5,388.53	3,296.00	3,178.64	66.26	18.55	101.19	-7,675.29	2,714.86	9,244.61	9,169.77	74.84	123.524		
6,500.00	5,466.64	3,646.00	3,508.49	67.59	20.98	102.17	-7,752.34	2,802.85	9,287.40	9,208.76	78.64	118.096		
6,600.00	5,544.76	3,687.74	3,547.87	68.92	21.27	102.29	-7,761.06	2,813.58	9,330.16	9,250.24	79.92	116.744		
6,700.00	5,622.88	3,733.00	3,590.55	70.25	21.59	102.41	-7,770.87	2,825.01	9,373.57	9,292.35	81.22	115.410		
6,800.00	5,701.00	3,753.09	3,609.49	71.58	21.73	102.47	-7,775.33	2,830.03	9,417.50	9,335.20	82.30	114.429		
6,900.00	5,779.11	3,790.41	3,644.65	72.91	21.99	102.57	-7,783.75	2,839.28	9,461.99	9,378.47	83.51	113.297		
7,000.00	5,857.23	3,831.47	3,683.31	74.23	22.27	102.68	-7,793.20	2,849.37	9,507.00	9,422.25	84.75	112.172		
7,100.00	5,935.35	3,888.21	3,736.68	75.56	22.67	102.84	-7,806.44	2,863.35	9,552.42	9,466.30	86.12	110.918		
7,200.00	6,013.46	6,317.23	6,107.92	76.89	33.54	110.60	-8,089.88	3,151.18	9,593.98	9,493.70	100.28	95.670		
7,300.00	6,091.58	6,417.26	6,207.94	78.22	33.74	110.97	-8,089.01	3,150.06	9,620.25	9,518.63	101.62	94.667		
7,400.00	6,169.70	6,515.37	6,306.04	79.55	33.93	111.32	-8,087.94	3,148.88	9,646.69	9,543.74	102.95	93.702		
7,500.00	6,247.81	6,621.35	6,412.00	80.88	34.15	111.71	-8,086.53	3,147.65	9,673.28	9,568.99	104.29	92.750		
7,600.00	6,325.93	6,728.90	6,519.53	82.21	34.36	112.10	-8,084.77	3,146.64	9,699.97	9,594.33	105.63	91.826		
7,700.00	6,404.05	6,791.50	6,582.12	83.54	34.50	112.32	-8,083.76	3,146.20	9,726.97	9,620.10	106.87	91.016		
7,800.00	6,482.17	6,863.60	6,654.22	84.87	34.65	112.58	-8,082.62	3,145.83	9,754.34	9,646.22	108.12	90.218		
7,900.00	6,560.28	6,927.02	6,717.62	86.20	34.79	112.80	-8,081.69	3,145.67	9,782.11	9,672.76	109.35	89.459		
8,000.00	6,638.40	6,988.86	6,779.46	87.53	34.93	113.02	-8,080.91	3,145.76	9,810.32	9,699.75	110.57	88.728		
8,100.00	6,716.52	7,050.00	6,840.60	88.86	35.07	113.23	-8,080.25	3,146.09	9,838.97	9,727.20	111.77	88.025		
8,200.00	6,794.63	7,106.50	6,897.09	90.20	35.21	113.43	-8,079.77	3,146.60	9,868.09	9,755.11	112.98	87.347		
8,300.00	6,872.75	7,162.34	6,952.93	91.53	35.35	113.62	-8,079.44	3,147.33	9,897.68	9,783.51	114.17	86.695		
8,400.00	6,950.87	7,225.00	7,015.58	92.86	35.51	113.83	-8,079.25	3,148.39	9,927.75	9,812.38	115.37	86.051		
8,500.00	7,028.98	7,282.19	7,072.76	94.19	35.67	114.02	-8,079.20	3,149.57	9,958.25	9,841.69	116.56	85.435		
8,600.00	7,107.10	7,347.22	7,137.77	95.52	35.84	114.24	-8,079.25	3,151.10	9,989.16	9,871.39	117.77	84.821		
9,050.00	7,462.22	7,635.23	7,425.57	100.42	36.68	65.18	-8,081.21	3,161.68	9,995.23	9,871.92	123.30	81.062		
9,100.00	7,498.11	7,667.14	7,457.42	100.74	36.78	61.15	-8,081.61	3,163.37	9,975.50	9,851.64	123.86	80.539		
9,150.00	7,532.24	7,697.70	7,487.94	100.99	36.88	57.78	-8,082.03	3,165.11	9,951.96	9,827.58	124.38	80.011		
9,200.00	7,564.34	7,726.69	7,516.87	101.19	36.97	55.05	-8,082.45	3,166.85	9,924.76	9,799.90	124.87	79.483		
9,250.00	7,594.17	7,755.27	7,545.39	101.34	37.06	52.92	-8,082.89	3,168.66	9,894.11	9,768.79	125.32	78.953		
9,300.00	7,621.50	7,787.51	7,577.56	101.45	37.16	51.39	-8,083.38	3,170.68	9,860.21	9,734.46	125.75	78.412		
9,350.00	7,646.13	7,816.53	7,606.52	101.50	37.26	50.44	-8,083.81	3,172.43	9,823.30	9,697.16	126.13	77.880		
9,400.00	7,667.87	7,842.14	7,632.09	101.51	37.34	50.10	-8,084.17	3,173.92	9,783.66	9,657.19	126.47	77.359		
9,450.00	7,686.55	7,864.18	7,654.09	101.48	37.41	50.47	-8,084.47	3,175.16	9,741.58	9,614.82	126.76	76.850		
9,500.00	7,702.04	7,882.51	7,672.40	101.42	37.47	51.75	-8,084.71	3,176.16	9,697.38	9,570.38	127.00	76.355		
9,550.00	7,714.20	7,897.02	7,686.89	101.33	37.51	54.35	-8,084.90	3,176.94	9,651.39	9,524.18	127.20	75.874		
9,600.00	7,722.96	7,907.63	7,697.48	101.20	37.55	59.16	-8,085.03	3,177.50	9,603.94	9,476.58	127.36	75.408		
9,650.00	7,728.24	7,914.28	7,704.12	101.06	37.57	68.40	-8,085.11	3,177.84	9,555.40	9,427.92	127.47	74.959		
9,699.97	7,730.00	7,916.94	7,706.78	100.90	37.58	87.94	-8,085.15	3,177.98	9,506.15	9,378.60	127.55	74.528		
9,800.00	7,730.00	7,918.27	7,708.10	100.56	37.58	87.99	-8,085.16	3,178.05	9,407.09	9,279.42	127.67	73.683		
9,900.00	7,730.00	7,919.59	7,709.42	100.24	37.58	88.05	-8,085.18	3,178.11	9,308.07	9,180.28	127.79	72.839		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.00	7,730.00	7,920.90	7,710.73	99.93	37.59	88.11	-8,085.19	3,178.18	9,209.08	9,081.16	127.91	71.994		
10,100.00	7,730.00	7,922.21	7,712.04	99.64	37.59	88.16	-8,085.21	3,178.25	9,110.11	8,982.07	128.04	71.150		
10,200.00	7,730.00	7,923.51	7,713.34	99.36	37.60	88.22	-8,085.23	3,178.31	9,011.16	8,882.99	128.17	70.305		
10,300.00	7,730.00	7,924.81	7,714.63	99.09	37.60	88.28	-8,085.24	3,178.38	8,912.23	8,783.93	128.31	69.461		
10,400.00	7,730.00	7,926.10	7,715.92	98.84	37.61	88.33	-8,085.26	3,178.44	8,813.33	8,684.89	128.44	68.617		
10,500.00	7,730.00	7,927.39	7,717.21	98.61	37.61	88.39	-8,085.27	3,178.51	8,714.46	8,585.87	128.58	67.773		
10,600.00	7,730.00	7,928.67	7,718.48	98.39	37.61	88.45	-8,085.29	3,178.57	8,615.60	8,486.88	128.73	66.929		
10,700.00	7,730.00	7,929.94	7,719.76	98.18	37.62	88.50	-8,085.30	3,178.64	8,516.78	8,387.90	128.88	66.085		
10,800.00	7,730.00	7,931.21	7,721.03	97.99	37.62	88.56	-8,085.32	3,178.70	8,417.98	8,288.96	129.03	65.241		
10,900.00	7,730.00	7,932.48	7,722.29	97.81	37.63	88.61	-8,085.33	3,178.77	8,319.22	8,190.03	129.19	64.398		
11,000.00	7,730.00	7,933.74	7,723.55	97.64	37.63	88.67	-8,085.35	3,178.83	8,220.48	8,091.13	129.35	63.554		
11,100.00	7,730.00	7,934.99	7,724.80	97.50	37.63	88.72	-8,085.36	3,178.89	8,121.77	7,992.26	129.51	62.711		
11,200.00	7,730.00	7,936.24	7,726.05	97.36	37.64	88.78	-8,085.38	3,178.95	8,023.09	7,893.41	129.68	61.868		
11,300.00	7,730.00	7,937.48	7,727.29	97.24	37.64	88.83	-8,085.39	3,179.02	7,924.45	7,794.60	129.85	61.026		
11,400.00	7,730.00	7,938.72	7,728.52	97.14	37.65	88.88	-8,085.41	3,179.08	7,825.84	7,695.81	130.03	60.183		
11,500.00	7,730.00	7,939.95	7,729.76	97.06	37.65	88.94	-8,085.42	3,179.14	7,727.27	7,597.05	130.22	59.341		
11,600.00	7,730.00	7,941.18	7,730.98	96.98	37.65	88.99	-8,085.44	3,179.20	7,628.73	7,498.33	130.41	58.499		
11,700.00	7,730.00	7,942.40	7,732.20	96.93	37.66	89.05	-8,085.45	3,179.26	7,530.24	7,399.63	130.60	57.658		
11,800.00	7,730.00	7,943.62	7,733.42	96.90	37.66	89.10	-8,085.47	3,179.32	7,431.78	7,300.98	130.80	56.816		
11,900.00	7,730.00	7,944.83	7,734.63	96.88	37.67	89.15	-8,085.48	3,179.38	7,333.36	7,202.35	131.01	55.975		
12,000.00	7,730.00	7,938.48	7,728.28	96.88	37.64	88.87	-8,085.41	3,179.07	7,235.00	7,103.81	131.19	55.150		
12,100.00	7,730.00	7,939.38	7,729.18	96.90	37.65	88.91	-8,085.43	3,179.11	7,136.68	7,005.27	131.41	54.310		
12,200.00	7,730.00	7,940.29	7,730.09	96.94	37.65	88.95	-8,085.44	3,179.16	7,038.40	6,906.77	131.63	53.471		
12,300.00	7,730.00	7,941.20	7,731.00	97.00	37.65	88.99	-8,085.45	3,179.21	6,940.17	6,808.30	131.86	52.632		
12,400.00	7,730.00	7,942.12	7,731.92	97.08	37.66	89.03	-8,085.46	3,179.25	6,841.99	6,709.89	132.10	51.794		
12,500.00	7,730.00	7,943.05	7,732.85	97.18	37.66	89.07	-8,085.47	3,179.30	6,743.86	6,611.51	132.35	50.956		
12,600.00	7,730.00	7,943.98	7,733.78	97.31	37.66	89.11	-8,085.49	3,179.34	6,645.79	6,513.19	132.60	50.119		
12,700.00	7,730.00	7,944.92	7,734.72	97.46	37.66	89.16	-8,085.50	3,179.39	6,547.78	6,414.92	132.86	49.283		
12,800.00	7,730.00	7,945.87	7,735.66	97.64	37.67	89.20	-8,085.51	3,179.44	6,449.83	6,316.69	133.13	48.447		
12,900.00	7,730.00	7,946.82	7,736.62	97.85	37.67	89.24	-8,085.52	3,179.49	6,351.94	6,218.53	133.41	47.611		
13,000.00	7,730.00	7,947.79	7,737.58	98.09	37.67	89.28	-8,085.54	3,179.53	6,254.12	6,120.42	133.70	46.777		
13,100.00	7,730.00	7,948.75	7,738.54	98.35	37.68	89.32	-8,085.55	3,179.58	6,156.37	6,022.37	134.00	45.943		
13,200.00	7,730.00	7,949.73	7,739.52	98.65	37.68	89.37	-8,085.56	3,179.63	6,058.69	5,924.38	134.31	45.110		
13,300.00	7,730.00	7,950.71	7,740.50	98.98	37.68	89.41	-8,085.58	3,179.68	5,961.09	5,826.46	134.63	44.278		
13,400.00	7,730.00	7,951.70	7,741.49	99.34	37.69	89.45	-8,085.59	3,179.73	5,863.57	5,728.61	134.96	43.446		
13,500.00	7,730.00	7,952.70	7,742.49	99.74	37.69	89.50	-8,085.60	3,179.78	5,766.13	5,630.83	135.30	42.616		
13,600.00	7,730.00	7,953.71	7,743.49	100.17	37.69	89.54	-8,085.62	3,179.83	5,668.78	5,533.12	135.66	41.787		
13,700.00	7,730.00	7,954.72	7,744.50	100.65	37.69	89.58	-8,085.63	3,179.88	5,571.53	5,435.50	136.03	40.958		
13,800.00	7,730.00	7,955.74	7,745.52	101.16	37.70	89.63	-8,085.65	3,179.93	5,474.38	5,337.96	136.41	40.131		
13,900.00	7,730.00	7,956.77	7,746.55	101.71	37.70	89.67	-8,085.66	3,179.98	5,377.32	5,240.52	136.81	39.306		
14,000.00	7,730.00	7,957.81	7,747.59	102.30	37.70	89.72	-8,085.68	3,180.03	5,280.38	5,143.16	137.22	38.481		
14,100.00	7,730.00	7,958.86	7,748.63	102.93	37.71	89.76	-8,085.69	3,180.08	5,183.56	5,045.91	137.65	37.658		
14,200.00	7,730.00	7,959.91	7,749.68	103.60	37.71	89.81	-8,085.70	3,180.13	5,086.86	4,948.76	138.09	36.836		
14,300.00	7,730.00	7,960.97	7,750.74	104.32	37.71	89.86	-8,085.72	3,180.18	4,990.29	4,851.73	138.56	36.016		
14,400.00	7,730.00	7,962.04	7,751.81	105.07	37.72	89.90	-8,085.74	3,180.24	4,893.85	4,754.81	139.04	35.197		
14,500.00	7,730.00	7,963.12	7,752.89	105.86	37.72	89.95	-8,085.75	3,180.29	4,797.56	4,658.02	139.54	34.381		
14,600.00	7,730.00	7,964.21	7,753.97	106.70	37.72	90.00	-8,085.77	3,180.34	4,701.43	4,561.36	140.07	33.566		
14,700.00	7,730.00	7,965.30	7,755.07	107.57	37.73	90.05	-8,085.78	3,180.40	4,605.46	4,464.84	140.61	32.753		
14,800.00	7,730.00	7,966.41	7,756.17	108.48	37.73	90.10	-8,085.80	3,180.45	4,509.66	4,368.48	141.18	31.942		
14,900.00	7,730.00	7,967.52	7,757.28	109.43	37.73	90.14	-8,085.81	3,180.50	4,414.05	4,272.27	141.78	31.134		
15,000.00	7,730.00	7,968.64	7,758.40	110.42	37.74	90.19	-8,085.83	3,180.56	4,318.64	4,176.24	142.40	30.328		
15,100.00	7,730.00	7,969.77	7,759.53	111.43	37.74	90.24	-8,085.85	3,180.61	4,223.44	4,080.39	143.05	29.525		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 74-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
15,200.00	7,730.00	7,970.91	7,760.67	112.49	37.75	90.29	-8,085.86	3,180.67	4,128.47	3,984.74	143.73	28.724		
15,300.00	7,730.00	7,972.06	7,761.82	113.57	37.75	90.34	-8,085.88	3,180.72	4,033.74	3,889.30	144.44	27.927		
15,400.00	7,730.00	7,973.22	7,762.98	114.68	37.75	90.39	-8,085.90	3,180.78	3,939.27	3,794.08	145.18	27.133		
15,500.00	7,730.00	7,974.39	7,764.14	115.82	37.76	90.44	-8,085.91	3,180.84	3,845.08	3,699.11	145.97	26.342		
15,600.00	7,730.00	7,975.57	7,765.32	116.99	37.76	90.50	-8,085.93	3,180.89	3,751.19	3,604.40	146.79	25.556		
15,700.00	7,730.00	7,976.75	7,766.51	118.19	37.76	90.55	-8,085.95	3,180.95	3,657.62	3,509.97	147.65	24.773		
15,800.00	7,730.00	7,977.95	7,767.70	119.41	37.77	90.60	-8,085.97	3,181.01	3,564.40	3,415.85	148.55	23.994		
15,900.00	7,730.00	7,979.16	7,768.91	120.65	37.77	90.65	-8,085.99	3,181.07	3,471.56	3,322.06	149.50	23.221		
16,000.00	7,730.00	7,980.38	7,770.13	121.91	37.78	90.71	-8,086.00	3,181.12	3,379.13	3,228.63	150.50	22.452		
16,100.00	7,730.00	7,981.60	7,771.35	123.20	37.78	90.76	-8,086.02	3,181.18	3,287.14	3,135.58	151.56	21.689		
16,200.00	7,730.00	7,982.84	7,772.59	124.50	37.78	90.82	-8,086.04	3,181.24	3,195.63	3,042.96	152.66	20.932		
16,300.00	7,730.00	7,984.09	7,773.84	125.82	37.79	90.87	-8,086.06	3,181.30	3,104.64	2,950.81	153.83	20.182		
16,400.00	7,730.00	7,985.35	7,775.09	127.16	37.79	90.92	-8,086.08	3,181.36	3,014.22	2,859.16	155.06	19.438		
16,500.00	7,730.00	7,986.62	7,776.36	128.52	37.79	90.98	-8,086.10	3,181.42	2,924.43	2,768.07	156.36	18.703		
16,600.00	7,730.00	7,987.90	7,777.64	129.89	37.80	91.04	-8,086.12	3,181.48	2,835.32	2,677.59	157.73	17.975		
16,700.00	7,730.00	7,989.20	7,778.93	131.27	37.80	91.09	-8,086.14	3,181.55	2,746.96	2,587.78	159.18	17.257		
16,800.00	7,730.00	7,990.50	7,780.23	132.67	37.81	91.15	-8,086.16	3,181.61	2,659.42	2,498.72	160.71	16.548		
16,900.00	7,730.00	7,991.81	7,781.55	134.09	37.81	91.21	-8,086.18	3,181.67	2,572.79	2,410.48	162.31	15.851		
17,000.00	7,730.00	7,993.14	7,782.87	135.51	37.82	91.27	-8,086.20	3,181.73	2,487.17	2,323.16	164.01	15.165		
17,100.00	7,730.00	7,994.48	7,784.21	136.95	37.82	91.32	-8,086.22	3,181.80	2,402.65	2,236.86	165.79	14.492		
17,200.00	7,730.00	7,995.83	7,785.56	138.40	37.82	91.38	-8,086.24	3,181.86	2,319.36	2,151.70	167.67	13.833		
17,300.00	7,730.00	7,997.19	7,786.92	139.85	37.83	91.44	-8,086.27	3,181.92	2,237.45	2,067.81	169.64	13.190		
17,400.00	7,730.00	7,998.56	7,788.29	141.32	37.83	91.50	-8,086.29	3,181.99	2,157.05	1,985.36	171.69	12.563		
17,500.00	7,730.00	7,999.95	7,789.67	142.80	37.84	91.56	-8,086.31	3,182.05	2,078.36	1,904.52	173.84	11.956		
17,600.00	7,730.00	8,001.35	7,791.07	144.28	37.84	91.63	-8,086.33	3,182.12	2,001.57	1,825.51	176.07	11.368		
17,700.00	7,730.00	8,002.76	7,792.48	145.78	37.85	91.69	-8,086.36	3,182.19	1,926.91	1,748.55	178.36	10.803		
17,800.00	7,730.00	8,004.18	7,793.90	147.28	37.85	91.75	-8,086.38	3,182.25	1,854.64	1,673.93	180.71	10.263		
17,900.00	7,730.00	8,005.62	7,795.34	148.79	37.85	91.81	-8,086.40	3,182.32	1,785.04	1,601.95	183.09	9.749		
18,000.00	7,730.00	8,007.07	7,796.78	150.31	37.86	91.88	-8,086.43	3,182.39	1,718.45	1,532.98	185.47	9.266		
18,100.00	7,730.00	8,008.53	7,798.25	151.83	37.86	91.94	-8,086.45	3,182.46	1,655.22	1,467.43	187.79	8.814		
18,200.00	7,730.00	8,010.01	7,799.72	153.37	37.87	92.01	-8,086.48	3,182.52	1,595.75	1,405.73	190.02	8.398		
18,300.00	7,730.00	8,011.50	7,801.21	154.90	37.87	92.07	-8,086.50	3,182.59	1,540.49	1,348.41	192.07	8.020		
18,400.00	7,730.00	8,013.00	7,802.71	156.45	37.88	92.14	-8,086.53	3,182.66	1,489.89	1,296.01	193.88	7.685		
18,500.00	7,730.00	8,014.52	7,804.23	158.00	37.88	92.20	-8,086.55	3,182.73	1,444.45	1,249.10	195.35	7.394		
18,600.00	7,730.00	8,016.05	7,805.76	159.55	37.89	92.27	-8,086.58	3,182.81	1,404.67	1,208.29	196.37	7.153		
18,700.00	7,730.00	8,017.60	7,807.30	161.11	37.89	92.34	-8,086.60	3,182.88	1,371.04	1,174.18	196.86	6.965		
18,800.00	7,730.00	8,019.16	7,808.86	162.68	37.90	92.41	-8,086.63	3,182.95	1,344.02	1,147.30	196.71	6.832		
18,900.00	7,730.00	8,020.74	7,810.44	164.25	37.90	92.48	-8,086.66	3,183.02	1,324.02	1,128.15	195.87	6.760		
19,000.00	7,730.00	8,022.33	7,812.03	165.83	37.91	92.55	-8,086.68	3,183.09	1,311.36	1,117.08	194.28	6.750 SF		
19,100.00	7,730.00	8,023.94	7,813.63	167.41	37.91	92.62	-8,086.71	3,183.17	1,306.25	1,114.30	191.95	6.805 ES		
19,116.86	7,730.00	8,024.21	7,813.91	167.67	37.91	92.63	-8,086.72	3,183.18	1,306.14	1,114.66	191.49	6.821 CC		
19,200.00	7,730.00	8,025.56	7,815.25	168.99	37.92	92.69	-8,086.74	3,183.24	1,308.79	1,119.86	188.92	6.928		
19,300.00	7,730.00	8,027.20	7,816.89	170.58	37.92	92.76	-8,086.77	3,183.32	1,318.92	1,133.64	185.27	7.119		
19,400.00	7,730.00	8,028.85	7,818.54	172.17	37.93	92.83	-8,086.80	3,183.39	1,336.47	1,155.35	181.12	7.379		
19,430.54	7,730.00	8,029.36	7,819.05	172.66	37.93	92.85	-8,086.81	3,183.42	1,343.27	1,163.49	179.78	7.472		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	12.34	12.34	0.00	0.02	163.72	-7,163.65	2,091.95	7,462.86					
100.00	100.00	65.49	65.49	0.13	0.14	163.72	-7,163.83	2,092.24	7,463.33	7,463.06	0.27	N/A		
200.00	200.00	135.00	134.99	0.49	0.39	163.71	-7,164.34	2,093.37	7,464.44	7,463.56	0.88	8,505.367		
300.00	300.00	180.57	180.54	0.85	0.55	163.70	-7,164.82	2,094.52	7,466.07	7,464.67	1.40	5,330.070		
400.00	400.00	227.00	226.94	1.21	0.72	163.70	-7,165.42	2,095.96	7,468.28	7,466.35	1.93	3,876.403		
500.00	500.00	266.39	266.29	1.57	0.86	163.68	-7,166.13	2,097.60	7,471.26	7,468.83	2.43	3,076.088		
600.00	599.98	318.00	317.79	1.92	1.05	98.24	-7,167.47	2,100.69	7,475.50	7,472.53	2.97	2,516.536		
700.00	699.84	318.00	317.79	2.28	1.05	98.13	-7,167.47	2,100.69	7,481.01	7,477.69	3.33	2,249.668		
800.00	799.45	351.46	351.13	2.64	1.18	98.00	-7,168.69	2,103.19	7,488.04	7,484.23	3.81	1,964.001		
900.00	898.70	375.58	375.14	3.02	1.27	97.84	-7,169.83	2,105.17	7,496.58	7,492.31	4.28	1,752.505		
1,000.00	997.47	410.00	409.37	3.41	1.41	97.66	-7,171.80	2,108.24	7,506.63	7,501.84	4.80	1,564.379		
1,100.00	1,095.62	410.00	409.37	3.84	1.41	97.43	-7,171.80	2,108.24	7,518.14	7,512.92	5.22	1,441.472		
1,200.00	1,193.06	454.98	454.05	4.29	1.59	97.23	-7,175.02	2,112.40	7,530.94	7,525.11	5.83	1,291.368		
1,300.00	1,289.64	502.00	500.69	4.78	1.77	97.01	-7,179.13	2,116.64	7,545.25	7,538.76	6.49	1,162.613		
1,400.00	1,385.27	502.00	500.69	5.32	1.77	96.70	-7,179.13	2,116.64	7,560.78	7,553.77	7.01	1,078.601		
1,500.00	1,479.82	539.73	538.08	5.90	1.93	96.44	-7,182.98	2,119.93	7,577.68	7,569.96	7.72	981.848		
1,600.00	1,573.17	594.00	591.78	6.53	2.16	96.20	-7,189.38	2,124.49	7,596.07	7,587.53	8.54	889.773		
1,700.00	1,665.21	594.00	591.78	7.23	2.16	95.81	-7,189.38	2,124.49	7,615.45	7,606.25	9.20	827.757		
1,800.00	1,755.84	630.66	628.01	7.98	2.31	95.50	-7,194.21	2,127.35	7,636.21	7,626.16	10.06	759.174		
1,900.00	1,844.94	686.00	682.64	8.80	2.55	95.23	-7,202.17	2,131.13	7,658.21	7,647.16	11.05	693.295		
2,000.00	1,932.39	686.00	682.64	9.68	2.55	94.76	-7,202.17	2,131.13	7,681.25	7,669.37	11.88	646.668		
2,100.00	2,018.11	686.00	682.64	10.63	2.55	94.26	-7,202.17	2,131.13	7,705.80	7,693.03	12.77	603.481		
2,200.00	2,101.97	730.01	725.98	11.65	2.74	93.91	-7,209.30	2,133.71	7,731.25	7,717.36	13.89	556.494		
2,300.00	2,183.88	778.00	773.08	12.74	2.95	93.56	-7,218.19	2,136.19	7,758.42	7,743.33	15.10	513.948		
2,400.00	2,263.74	778.00	773.08	13.90	2.95	92.98	-7,218.19	2,136.19	7,786.32	7,770.15	16.17	481.575		
2,431.61	2,288.54	778.00	773.08	14.29	2.95	92.79	-7,218.19	2,136.19	7,795.42	7,778.90	16.52	471.910		
2,500.00	2,341.97	778.00	773.08	15.13	2.95	92.79	-7,218.19	2,136.19	7,815.53	7,798.25	17.29	452.122		
2,600.00	2,420.08	778.00	773.08	16.37	2.95	92.79	-7,218.19	2,136.19	7,845.92	7,827.51	18.41	426.083		
2,700.00	2,498.20	811.02	805.36	17.63	3.11	92.95	-7,224.97	2,137.68	7,877.13	7,857.45	19.68	400.225		
2,800.00	2,576.32	855.00	848.18	18.89	3.31	93.17	-7,234.85	2,139.43	7,909.69	7,888.69	21.00	376.695		
2,900.00	2,654.43	855.00	848.18	20.17	3.31	93.17	-7,234.85	2,139.43	7,942.79	7,920.66	22.13	358.988		
3,000.00	2,732.55	855.00	848.18	21.45	3.31	93.17	-7,234.85	2,139.43	7,977.00	7,953.75	23.25	343.126		
3,100.00	2,810.67	855.00	848.18	22.74	3.31	93.17	-7,234.85	2,139.43	8,012.32	7,987.96	24.36	328.865		
3,200.00	2,888.78	896.79	888.69	24.03	3.52	93.38	-7,244.96	2,141.05	8,048.34	8,022.68	25.66	313.634		
3,300.00	2,966.90	942.00	932.37	25.33	3.75	93.60	-7,256.49	2,143.00	8,085.50	8,058.53	26.97	299.800		
3,400.00	3,045.02	942.00	932.37	26.63	3.75	93.60	-7,256.49	2,143.00	8,123.27	8,095.21	28.06	289.459		
3,500.00	3,123.13	942.00	932.37	27.94	3.75	93.60	-7,256.49	2,143.00	8,162.10	8,132.95	29.15	280.031		
3,600.00	3,201.25	985.28	974.03	29.24	3.98	93.81	-7,267.99	2,145.15	8,201.63	8,171.20	30.44	269.457		
3,700.00	3,279.37	1,031.00	1,017.92	30.55	4.22	94.02	-7,280.54	2,147.79	8,242.11	8,210.38	31.72	259.810		
3,800.00	3,357.49	1,031.00	1,017.92	31.86	4.22	94.02	-7,280.54	2,147.79	8,283.23	8,250.45	32.78	252.700		
3,900.00	3,435.60	1,071.50	1,056.70	33.18	4.45	94.22	-7,291.93	2,150.41	8,325.15	8,291.12	34.03	244.635		
4,000.00	3,513.72	1,116.00	1,099.23	34.49	4.70	94.42	-7,304.64	2,153.54	8,367.78	8,332.48	35.30	237.031		
4,100.00	3,591.84	1,179.18	1,159.57	35.81	5.07	94.72	-7,322.82	2,157.96	8,410.95	8,374.28	36.67	229.391		
4,200.00	3,669.95	1,204.00	1,183.29	37.12	5.21	94.83	-7,329.95	2,159.58	8,454.56	8,416.74	37.82	223.554		
4,300.00	3,748.07	1,249.18	1,226.41	38.44	5.48	95.04	-7,343.11	2,162.49	8,498.77	8,459.70	39.07	217.506		
4,400.00	3,826.19	1,291.00	1,266.22	39.76	5.73	95.24	-7,355.64	2,165.25	8,543.80	8,503.50	40.30	211.983		
4,500.00	3,904.30	1,291.00	1,266.22	41.08	5.73	95.24	-7,355.64	2,165.25	8,589.49	8,548.20	41.29	208.028		
4,600.00	3,982.42	1,333.64	1,306.70	42.40	5.99	95.43	-7,368.70	2,168.17	8,635.85	8,593.34	42.51	203.149		
4,700.00	4,060.54	1,378.00	1,348.72	43.72	6.27	95.64	-7,382.56	2,171.37	8,682.91	8,639.18	43.73	198.542		
4,800.00	4,138.66	1,378.00	1,348.72	45.05	6.27	95.64	-7,382.56	2,171.37	8,730.61	8,685.92	44.69	195.377		
4,900.00	4,216.77	1,425.44	1,393.54	46.37	6.57	95.85	-7,397.66	2,175.08	8,778.89	8,732.98	45.92	191.198		
5,000.00	4,294.89	1,466.00	1,431.75	47.69	6.83	96.03	-7,410.81	2,178.56	8,827.85	8,780.76	47.10	187.442		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	1,466.00	1,431.75	49.02	6.83	96.03	-7,410.81	2,178.56	8,877.46	8,829.44	48.02	184.887		
5,200.00	4,451.12	1,466.00	1,431.75	50.34	6.83	96.03	-7,410.81	2,178.56	8,927.90	8,878.98	48.92	182.495		
5,300.00	4,529.24	1,510.73	1,473.72	51.67	7.13	96.23	-7,425.76	2,182.54	8,978.71	8,928.61	50.11	179.196		
5,400.00	4,607.36	1,553.00	1,513.16	52.99	7.42	96.41	-7,440.51	2,186.25	9,030.56	8,979.29	51.27	176.146		
5,500.00	4,685.47	1,553.00	1,513.16	54.32	7.42	96.41	-7,440.51	2,186.25	9,082.80	9,030.66	52.14	174.200		
5,600.00	4,763.59	1,553.00	1,513.16	55.64	7.42	96.41	-7,440.51	2,186.25	9,135.83	9,082.83	53.00	172.376		
5,700.00	4,841.71	1,553.00	1,513.16	56.97	7.42	96.41	-7,440.51	2,186.25	9,189.65	9,135.80	53.85	170.668		
5,800.00	4,919.83	1,598.65	1,555.54	58.30	7.74	96.61	-7,457.03	2,190.09	9,243.83	9,188.83	55.00	168.082		
5,900.00	4,997.94	1,640.00	1,593.77	59.62	8.03	96.79	-7,472.46	2,193.29	9,298.87	9,242.76	56.11	165.725		
6,000.00	5,076.06	1,640.00	1,593.77	60.95	8.03	96.79	-7,472.46	2,193.29	9,354.33	9,297.40	56.92	164.330		
6,100.00	5,154.18	1,640.00	1,593.77	62.28	8.03	96.79	-7,472.46	2,193.29	9,410.52	9,352.80	57.73	163.023		
6,200.00	5,232.29	1,686.01	1,636.16	63.61	8.36	97.00	-7,490.04	2,196.61	9,467.15	9,408.31	58.85	160.876		
6,300.00	5,310.41	1,728.00	1,674.74	64.93	8.67	97.18	-7,506.36	2,199.45	9,524.41	9,464.47	59.93	158.914		
6,400.00	5,388.53	1,728.00	1,674.74	66.26	8.99	99.95	-7,521.55	2,202.86	9,581.45	9,498.33	61.13	156.263		
6,500.00	5,466.64	2,467.21	2,363.00	67.59	13.88	100.32	-7,570.61	2,247.99	9,634.96	9,568.15	66.81	144.214		
6,600.00	5,544.76	2,644.42	2,530.42	68.92	15.05	101.05	-7,628.02	2,256.63	9,688.62	9,619.78	68.83	140.758		
6,700.00	5,622.88	2,688.00	2,571.72	70.25	15.34	101.24	-7,641.84	2,258.33	9,741.91	9,671.98	69.94	139.291		
6,800.00	5,701.00	2,725.74	2,607.44	71.58	15.59	101.39	-7,653.91	2,259.94	9,795.67	9,724.67	71.00	137.961		
6,900.00	5,779.11	2,775.00	2,653.91	72.91	15.91	101.59	-7,669.99	2,262.86	9,850.00	9,777.85	72.14	136.535		
7,000.00	5,857.23	2,805.24	2,682.38	74.23	16.12	101.71	-7,679.96	2,264.96	9,904.71	9,831.57	73.15	135.409		
7,100.00	5,935.35	2,882.05	2,754.70	75.56	16.64	102.00	-7,695.23	2,270.58	9,959.67	9,885.18	74.48	133.718		
10,100.00	7,730.00	8,059.49	7,779.85	99.64	39.94	90.71	-8,783.68	2,389.96	9,939.97	9,818.30	121.67	81.698		
10,200.00	7,730.00	8,060.08	7,780.45	99.36	39.94	90.72	-8,783.69	2,389.98	9,842.24	9,720.39	121.85	80.772		
10,300.00	7,730.00	8,060.68	7,781.05	99.09	39.94	90.74	-8,783.69	2,390.00	9,744.56	9,622.51	122.04	79.846		
10,400.00	7,730.00	8,061.29	7,781.65	98.84	39.94	90.76	-8,783.69	2,390.02	9,646.92	9,524.68	122.24	78.920		
10,500.00	7,730.00	8,061.89	7,782.26	98.61	39.94	90.77	-8,783.70	2,390.05	9,549.33	9,426.90	122.44	77.995		
10,600.00	7,730.00	8,062.51	7,782.87	98.39	39.94	90.79	-8,783.70	2,390.07	9,451.80	9,329.16	122.64	77.069		
10,700.00	7,730.00	8,063.12	7,783.49	98.18	39.95	90.81	-8,783.70	2,390.09	9,354.31	9,231.46	122.85	76.144		
10,800.00	7,730.00	8,063.74	7,784.11	97.99	39.95	90.82	-8,783.71	2,390.12	9,256.88	9,133.81	123.07	75.219		
10,900.00	7,730.00	8,064.37	7,784.73	97.81	39.95	90.84	-8,783.71	2,390.14	9,159.50	9,036.22	123.29	74.294		
11,000.00	7,730.00	8,065.00	7,785.36	97.64	39.95	90.86	-8,783.71	2,390.16	9,062.19	8,938.67	123.51	73.369		
11,100.00	7,730.00	8,065.63	7,785.99	97.50	39.95	90.87	-8,783.72	2,390.19	8,964.93	8,841.18	123.75	72.445		
11,200.00	7,730.00	8,066.27	7,786.63	97.36	39.95	90.89	-8,783.72	2,390.21	8,867.73	8,743.74	123.99	71.521		
11,300.00	7,730.00	8,066.92	7,787.28	97.24	39.95	90.91	-8,783.73	2,390.24	8,770.59	8,646.36	124.23	70.598		
11,400.00	7,730.00	8,067.56	7,787.92	97.14	39.96	90.93	-8,783.73	2,390.26	8,673.52	8,549.03	124.49	69.674		
11,500.00	7,730.00	8,068.22	7,788.57	97.06	39.96	90.95	-8,783.73	2,390.29	8,576.52	8,451.77	124.75	68.752		
11,600.00	7,730.00	8,068.87	7,789.23	96.98	39.96	90.96	-8,783.74	2,390.31	8,479.58	8,354.57	125.01	67.829		
11,700.00	7,730.00	8,069.53	7,789.89	96.93	39.96	90.98	-8,783.74	2,390.34	8,382.72	8,257.43	125.29	66.908		
11,800.00	7,730.00	8,070.20	7,790.56	96.90	39.96	91.00	-8,783.74	2,390.37	8,285.94	8,160.37	125.57	65.987		
11,900.00	7,730.00	8,070.87	7,791.23	96.88	39.96	91.02	-8,783.75	2,390.39	8,189.22	8,063.36	125.86	65.066		
12,000.00	7,730.00	8,071.55	7,791.91	96.88	39.97	91.04	-8,783.75	2,390.42	8,092.59	7,966.44	126.16	64.146		
12,100.00	7,730.00	8,072.23	7,792.59	96.90	39.97	91.06	-8,783.76	2,390.45	7,996.05	7,869.58	126.47	63.227		
12,200.00	7,730.00	8,072.92	7,793.27	96.94	39.97	91.07	-8,783.76	2,390.47	7,899.59	7,772.80	126.78	62.309		
12,300.00	7,730.00	8,073.61	7,793.96	97.00	39.97	91.09	-8,783.76	2,390.50	7,803.21	7,676.11	127.11	61.391		
12,400.00	7,730.00	8,074.30	7,794.66	97.08	39.97	91.11	-8,783.77	2,390.53	7,706.93	7,579.49	127.44	60.474		
12,500.00	7,730.00	8,075.01	7,795.36	97.18	39.98	91.13	-8,783.77	2,390.56	7,610.75	7,482.96	127.79	59.558		
12,600.00	7,730.00	8,075.71	7,796.07	97.31	39.98	91.15	-8,783.78	2,390.58	7,514.66	7,386.52	128.14	58.644		
12,700.00	7,730.00	8,076.42	7,796.78	97.46	39.98	91.17	-8,783.78	2,390.61	7,418.68	7,290.18	128.51	57.730		
12,800.00	7,730.00	8,077.14	7,797.49	97.64	39.99	91.19	-8,783.79	2,390.64	7,322.81	7,193.93	128.88	56.817		
12,900.00	7,730.00	8,077.86	7,798.22	97.85	39.98	91.21	-8,783.79	2,390.67	7,227.05	7,097.77	129.27	55.906		
13,000.00	7,730.00	8,078.59	7,798.94	98.09	39.98	91.23	-8,783.79	2,390.70	7,131.40	7,001.73	129.67	54.995		
13,100.00	7,730.00	8,079.33	7,799.68	98.35	39.99	91.25	-8,783.80	2,390.73	7,035.88	6,905.79	130.09	54.086		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,200.00	7,730.00	8,080.07	7,800.42	98.65	39.99	91.27	-8,783.80	2,390.76	6,940.48	6,809.97	130.51	53.179		
13,300.00	7,730.00	8,080.81	7,801.16	98.98	39.99	91.29	-8,783.81	2,390.79	6,845.21	6,714.26	130.95	52.273		
13,400.00	7,730.00	8,081.56	7,801.91	99.34	39.99	91.31	-8,783.81	2,390.82	6,750.08	6,618.67	131.41	51.368		
13,500.00	7,730.00	8,082.32	7,802.67	99.74	39.99	91.33	-8,783.82	2,390.86	6,655.09	6,523.22	131.87	50.465		
13,600.00	7,730.00	8,083.08	7,803.43	100.17	40.00	91.35	-8,783.82	2,390.89	6,560.25	6,427.90	132.36	49.564		
13,700.00	7,730.00	8,083.85	7,804.20	100.65	40.00	91.37	-8,783.83	2,390.92	6,465.57	6,332.71	132.86	48.665		
13,800.00	7,730.00	8,084.62	7,804.97	101.16	40.00	91.39	-8,783.83	2,390.95	6,371.05	6,237.67	133.37	47.768		
13,900.00	7,730.00	8,085.40	7,805.75	101.71	40.00	91.42	-8,783.84	2,390.98	6,276.70	6,142.79	133.91	46.873		
14,000.00	7,730.00	8,086.19	7,806.54	102.30	40.00	91.44	-8,783.84	2,391.02	6,182.52	6,048.06	134.46	45.980		
14,100.00	7,730.00	8,086.98	7,807.33	102.93	40.01	91.46	-8,783.85	2,391.05	6,088.54	5,953.50	135.03	45.090		
14,200.00	7,730.00	8,087.78	7,808.13	103.60	40.01	91.48	-8,783.85	2,391.08	5,994.74	5,859.12	135.62	44.202		
14,300.00	7,730.00	8,088.59	7,808.93	104.32	40.01	91.50	-8,783.86	2,391.12	5,901.15	5,764.92	136.23	43.316		
14,400.00	7,730.00	8,089.40	7,809.74	105.07	40.01	91.52	-8,783.86	2,391.15	5,807.78	5,670.91	136.87	42.434		
14,500.00	7,730.00	8,090.22	7,810.56	105.86	40.01	91.55	-8,783.87	2,391.19	5,714.62	5,577.10	137.52	41.554		
14,600.00	7,730.00	8,091.04	7,811.38	106.70	40.02	91.57	-8,783.87	2,391.22	5,621.71	5,483.50	138.20	40.678		
14,700.00	7,730.00	8,091.88	7,812.21	107.57	40.02	91.59	-8,783.88	2,391.26	5,529.04	5,390.13	138.91	39.804		
14,800.00	7,730.00	8,092.71	7,813.05	108.48	40.02	91.62	-8,783.88	2,391.30	5,436.63	5,296.99	139.63	38.935		
14,900.00	7,730.00	8,093.56	7,813.90	109.43	40.02	91.64	-8,783.89	2,391.33	5,344.49	5,204.10	140.39	38.069		
15,000.00	7,730.00	8,094.41	7,814.75	110.42	40.02	91.66	-8,783.90	2,391.37	5,252.64	5,111.46	141.18	37.206		
15,100.00	7,730.00	8,095.27	7,815.61	111.43	40.03	91.69	-8,783.90	2,391.41	5,161.09	5,019.10	141.99	36.348		
15,200.00	7,730.00	8,096.14	7,816.47	112.49	40.03	91.71	-8,783.91	2,391.45	5,069.86	4,927.03	142.83	35.495		
15,300.00	7,730.00	8,097.01	7,817.34	113.57	40.03	91.73	-8,783.91	2,391.49	4,978.97	4,835.26	143.71	34.646		
15,400.00	7,730.00	8,097.89	7,818.22	114.68	40.03	91.76	-8,783.92	2,391.52	4,888.44	4,743.82	144.62	33.802		
15,500.00	7,730.00	8,098.78	7,819.11	115.82	40.03	91.78	-8,783.92	2,391.56	4,798.28	4,652.71	145.57	32.963		
15,600.00	7,730.00	8,099.67	7,820.00	116.99	40.04	91.81	-8,783.93	2,391.60	4,708.52	4,561.97	146.55	32.129		
15,700.00	7,730.00	8,100.58	7,820.91	118.19	40.04	91.83	-8,783.94	2,391.64	4,619.17	4,471.60	147.57	31.302		
15,800.00	7,730.00	8,101.49	7,821.82	119.41	40.04	91.86	-8,783.94	2,391.69	4,530.28	4,381.65	148.63	30.480		
15,900.00	7,730.00	8,102.41	7,822.73	120.65	40.04	91.88	-8,783.95	2,391.73	4,441.85	4,292.12	149.73	29.665		
16,000.00	7,730.00	8,103.33	7,823.66	121.91	40.05	91.91	-8,783.96	2,391.77	4,353.93	4,203.05	150.88	28.857		
16,100.00	7,730.00	8,104.27	7,824.59	123.20	40.05	91.93	-8,783.96	2,391.81	4,266.54	4,114.47	152.07	28.056		
16,200.00	7,730.00	8,105.21	7,825.53	124.50	40.05	91.96	-8,783.97	2,391.86	4,179.71	4,026.40	153.31	27.263		
16,300.00	7,730.00	8,106.16	7,826.48	125.82	40.05	91.98	-8,783.97	2,391.90	4,093.49	3,938.89	154.60	26.478		
16,400.00	7,730.00	8,107.12	7,827.44	127.16	40.06	92.01	-8,783.98	2,391.94	4,007.90	3,851.96	155.94	25.702		
16,500.00	7,730.00	8,108.08	7,828.41	128.52	40.06	92.04	-8,783.99	2,391.99	3,923.00	3,765.67	157.33	24.935		
16,600.00	7,730.00	8,109.06	7,829.38	129.89	40.06	92.06	-8,784.00	2,392.03	3,838.82	3,680.05	158.78	24.177		
16,700.00	7,730.00	8,110.04	7,830.36	131.27	40.06	92.09	-8,784.00	2,392.08	3,755.42	3,595.14	160.28	23.430		
16,800.00	7,730.00	8,111.04	7,831.35	132.67	40.07	92.12	-8,784.01	2,392.13	3,672.85	3,511.01	161.84	22.694		
16,900.00	7,730.00	8,112.04	7,832.35	134.09	40.07	92.14	-8,784.02	2,392.17	3,591.16	3,427.70	163.46	21.969		
17,000.00	7,730.00	8,113.05	7,833.36	135.51	40.07	92.17	-8,784.02	2,392.22	3,510.43	3,345.28	165.14	21.257		
17,100.00	7,730.00	8,114.07	7,834.38	136.95	40.07	92.20	-8,784.03	2,392.27	3,430.70	3,263.82	166.89	20.557		
17,200.00	7,730.00	8,115.10	7,835.41	138.40	40.08	92.23	-8,784.04	2,392.32	3,352.07	3,183.38	168.69	19.871		
17,300.00	7,730.00	8,116.13	7,836.45	139.85	40.08	92.26	-8,784.05	2,392.37	3,274.60	3,104.04	170.56	19.199		
17,400.00	7,730.00	8,117.18	7,837.49	141.32	40.08	92.28	-8,784.05	2,392.42	3,198.37	3,025.89	172.49	18.543		
17,500.00	7,730.00	8,118.24	7,838.55	142.80	40.08	92.31	-8,784.06	2,392.47	3,123.50	2,949.02	174.47	17.902		
17,600.00	7,730.00	8,119.30	7,839.61	144.28	40.09	92.34	-8,784.07	2,392.52	3,050.06	2,873.54	176.52	17.279		
17,700.00	7,730.00	8,120.38	7,840.69	145.78	40.09	92.37	-8,784.08	2,392.57	2,978.17	2,799.54	178.62	16.673		
17,800.00	7,730.00	8,121.47	7,841.77	147.28	40.09	92.40	-8,784.09	2,392.62	2,907.94	2,727.16	180.77	16.086		
17,900.00	7,730.00	8,122.56	7,842.87	148.79	40.09	92.43	-8,784.09	2,392.68	2,839.49	2,656.52	182.97	15.519		
18,000.00	7,730.00	8,123.67	7,843.97	150.31	40.10	92.46	-8,784.10	2,392.73	2,772.96	2,587.76	185.20	14.973		
18,100.00	7,730.00	8,124.79	7,845.09	151.83	40.10	92.49	-8,784.11	2,392.79	2,708.49	2,521.04	187.46	14.449		
18,200.00	7,730.00	8,125.91	7,846.21	153.37	40.10	92.52	-8,784.12	2,392.84	2,646.23	2,456.50	189.73	13.947		
18,300.00	7,730.00	8,127.05	7,847.35	154.90	40.11	92.55	-8,784.13	2,392.90	2,586.34	2,394.34	192.01	13.470		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY												Offset Site Error:	0.00 usft
Survey Program: 43-MWD OWSG												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,400.00	7,730.00	8,128.20	7,848.50	156.45	40.11	92.59	-8,784.14	2,392.96	2,528.99	2,334.72	194.27	13.018	
18,500.00	7,730.00	8,129.36	7,849.66	158.00	40.11	92.62	-8,784.15	2,393.02	2,474.34	2,277.85	196.49	12.593	
18,600.00	7,730.00	8,130.53	7,850.82	159.55	40.11	92.65	-8,784.15	2,393.08	2,422.60	2,223.94	198.66	12.195	
18,700.00	7,730.00	8,131.71	7,852.01	161.11	40.12	92.68	-8,784.16	2,393.14	2,373.94	2,173.19	200.75	11.826	
18,800.00	7,730.00	8,132.91	7,853.20	162.68	40.12	92.71	-8,784.17	2,393.20	2,328.56	2,125.83	202.73	11.486	
18,900.00	7,730.00	8,134.11	7,854.40	164.25	40.12	92.75	-8,784.18	2,393.26	2,286.66	2,082.09	204.57	11.178	
19,000.00	7,730.00	8,135.33	7,855.62	165.83	40.13	92.78	-8,784.19	2,393.32	2,248.42	2,042.18	206.24	10.902	
19,100.00	7,730.00	8,133.01	7,853.30	167.41	40.13	92.72	-8,784.22	2,393.20	2,214.06	2,006.37	207.69	10.660	
19,200.00	7,730.00	8,134.55	7,854.83	168.99	40.13	92.76	-8,784.24	2,393.28	2,183.73	1,974.79	208.93	10.452	
19,300.00	7,730.00	8,136.14	7,856.42	170.58	40.14	92.80	-8,784.25	2,393.36	2,157.60	1,947.69	209.91	10.279	
19,400.00	7,730.00	8,137.78	7,858.07	172.17	40.14	92.85	-8,784.27	2,393.45	2,135.84	1,925.24	210.60	10.142	
19,430.54	7,730.00	8,138.30	7,858.58	172.66	40.14	92.86	-8,784.28	2,393.47	2,130.09	1,919.34	210.75	10.107 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	163.58	-7,118.47	2,097.82	7,421.19					
100.00	100.00	44.14	44.13	0.13	0.08	163.58	-7,118.58	2,098.27	7,421.81	7,421.61	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.57	-7,118.80	2,099.07	7,423.33	7,422.73	0.61	N/A		
300.00	300.00	119.56	119.51	0.85	0.29	163.56	-7,119.38	2,100.77	7,425.67	7,424.54	1.13	6,570.181		
400.00	400.00	166.00	165.89	1.21	0.45	163.55	-7,120.33	2,102.84	7,428.84	7,427.18	1.66	4,482.611		
500.00	500.00	221.74	221.54	1.57	0.66	163.53	-7,121.72	2,105.81	7,432.68	7,430.46	2.22	3,347.201		
600.00	599.98	306.94	306.52	1.92	0.98	98.06	-7,123.79	2,111.50	7,437.16	7,434.27	2.89	2,573.697		
700.00	699.84	349.00	348.43	2.28	1.14	97.95	-7,124.65	2,114.89	7,442.38	7,438.98	3.40	2,188.579		
800.00	799.45	410.15	409.32	2.64	1.38	97.82	-7,126.15	2,120.36	7,448.66	7,444.66	4.00	1,864.109		
900.00	898.70	440.00	439.02	3.02	1.49	97.68	-7,127.13	2,123.23	7,456.33	7,451.85	4.49	1,662.475		
1,000.00	997.47	476.79	475.57	3.41	1.64	97.52	-7,128.56	2,127.12	7,465.35	7,460.33	5.02	1,486.003		
1,100.00	1,095.62	533.00	531.28	3.84	1.88	97.35	-7,131.28	2,134.12	7,475.91	7,470.25	5.66	1,320.156		
1,200.00	1,193.06	544.68	542.83	4.29	1.93	97.13	-7,131.91	2,135.72	7,487.53	7,481.37	6.16	1,215.820		
1,300.00	1,289.64	625.00	622.14	4.78	2.27	96.96	-7,135.95	2,147.72	7,500.15	7,493.18	6.97	1,075.552		
1,400.00	1,385.27	679.88	676.17	5.32	2.52	96.75	-7,138.62	2,156.97	7,513.63	7,505.90	7.74	971.319		
1,500.00	1,479.82	735.68	730.91	5.90	2.79	96.52	-7,141.47	2,167.37	7,528.20	7,519.65	8.55	880.203		
1,600.00	1,573.17	805.00	798.57	6.53	3.12	96.31	-7,144.67	2,182.11	7,543.53	7,534.04	9.49	794.553		
1,700.00	1,665.21	842.05	834.57	7.23	3.32	96.03	-7,146.38	2,190.72	7,559.88	7,549.53	10.35	730.459		
1,800.00	1,755.84	893.00	883.90	7.98	3.59	95.76	-7,149.20	2,203.13	7,577.56	7,566.23	11.33	668.701		
1,900.00	1,844.94	910.84	901.13	8.80	3.69	95.41	-7,150.29	2,207.65	7,596.30	7,584.09	12.21	622.063		
2,000.00	1,932.39	960.71	949.09	9.68	3.97	95.11	-7,153.34	2,220.95	7,616.13	7,602.80	13.32	571.592		
2,100.00	2,018.11	1,001.43	988.05	10.63	4.20	94.77	-7,155.86	2,232.55	7,636.94	7,622.48	14.46	528.181		
2,200.00	2,101.97	1,031.00	1,016.18	11.65	4.38	94.39	-7,157.78	2,241.43	7,658.85	7,643.25	15.60	491.000		
2,300.00	2,183.88	1,074.77	1,057.67	12.74	4.66	94.03	-7,160.82	2,255.04	7,681.80	7,664.90	16.90	454.632		
2,400.00	2,263.74	1,151.17	1,129.94	13.90	5.15	93.75	-7,166.53	2,279.15	7,705.67	7,687.20	18.47	417.207		
2,431.61	2,288.54	1,189.25	1,166.03	14.29	5.40	93.70	-7,169.40	2,290.94	7,713.26	7,694.19	19.07	404.488		
2,500.00	2,341.97	1,183.00	1,160.11	15.13	5.36	93.68	-7,168.93	2,289.02	7,730.04	7,710.22	19.82	390.091		
2,600.00	2,420.08	1,237.30	1,211.43	16.37	5.72	93.84	-7,173.24	2,306.22	7,755.03	7,733.70	21.33	363.559		
2,700.00	2,498.20	1,270.00	1,242.17	17.63	5.94	93.93	-7,176.07	2,317.02	7,780.97	7,758.26	22.71	342.606		
2,800.00	2,576.32	1,527.29	1,483.22	18.89	7.76	94.62	-7,195.88	2,404.72	7,806.61	7,780.91	25.70	303.793		
2,900.00	2,654.43	1,575.54	1,528.33	20.17	8.11	94.74	-7,199.04	2,421.57	7,831.46	7,804.23	27.23	287.577		
3,000.00	2,732.55	1,622.24	1,571.90	21.45	8.45	94.86	-7,202.35	2,438.04	7,856.99	7,828.23	28.76	273.191		
3,100.00	2,810.67	1,731.83	1,673.90	22.74	9.27	95.13	-7,210.05	2,477.38	7,882.73	7,851.96	30.77	256.143		
3,200.00	2,888.78	1,814.20	1,750.48	24.03	9.89	95.33	-7,215.79	2,507.15	7,908.62	7,876.02	32.59	242.640		
3,300.00	2,966.90	1,905.48	1,835.30	25.33	10.58	95.55	-7,222.14	2,540.27	7,934.65	7,900.16	34.49	230.055		
3,400.00	3,045.02	1,968.00	1,893.34	26.63	11.06	95.70	-7,226.49	2,563.11	7,960.90	7,924.73	36.17	220.122		
3,500.00	3,123.13	2,027.61	1,948.62	27.94	11.52	95.84	-7,230.85	2,584.97	7,987.62	7,949.80	37.82	211.194		
3,600.00	3,201.25	2,094.33	2,010.46	29.24	12.04	96.00	-7,236.11	2,609.47	8,014.92	7,975.39	39.53	202.741		
3,700.00	3,279.37	2,184.24	2,093.89	30.55	12.73	96.22	-7,243.33	2,642.19	8,042.42	8,000.99	41.43	194.123		
3,800.00	3,357.49	2,249.59	2,154.70	31.86	13.24	96.37	-7,248.73	2,665.52	8,070.13	8,027.01	43.12	187.143		
3,900.00	3,435.60	2,291.19	2,193.39	33.18	13.55	96.48	-7,252.41	2,680.35	8,098.45	8,053.83	44.62	181.503		
4,000.00	3,513.72	4,000.00	2,281.84	34.49	26.76	96.70	-7,261.07	2,714.50	8,127.17	8,068.98	58.19	139.664		
4,100.00	3,591.84	2,492.00	2,379.84	35.81	15.11	96.95	-7,270.16	2,752.78	8,155.59	8,107.01	48.58	167.865		
4,200.00	3,669.95	2,535.68	2,420.38	37.12	15.44	97.06	-7,274.08	2,768.55	8,184.53	8,134.44	50.09	163.387		
4,300.00	3,748.07	2,579.00	2,460.68	38.44	15.78	97.16	-7,278.38	2,783.86	8,214.20	8,162.61	51.59	159.212		
4,400.00	3,826.19	2,699.33	2,572.65	39.76	16.70	97.45	-7,290.28	2,826.28	8,243.97	8,190.24	53.73	153.433		
4,500.00	3,904.30	2,767.59	2,636.06	41.08	17.23	97.61	-7,297.01	2,850.64	8,273.92	8,218.48	55.44	149.248		
4,600.00	3,982.42	2,878.17	2,738.46	42.40	18.10	97.86	-7,307.62	2,891.01	8,303.87	8,246.35	57.52	144.365		
4,700.00	4,060.54	2,980.32	2,832.98	43.72	18.91	98.09	-7,317.33	2,928.52	8,333.92	8,274.38	59.53	139.992		
4,800.00	4,138.66	3,113.96	2,957.18	45.05	19.95	98.40	-7,329.70	2,976.25	8,363.65	8,301.85	61.81	135.322		
4,900.00	4,216.77	3,185.40	3,023.22	46.37	20.52	98.56	-7,336.05	3,002.76	8,393.41	8,329.85	63.56	132.057		
5,000.00	4,294.89	3,293.76	3,123.54	47.69	21.38	98.79	-7,345.73	3,042.55	8,423.24	8,357.60	65.63	128.336		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	3,358.67	3,183.64	49.02	21.89	98.93	-7,351.59	3,066.36	8,453.26	8,385.93	67.32	125.565		
5,200.00	4,451.12	3,405.83	3,227.19	50.34	22.27	99.04	-7,355.99	3,083.91	8,483.74	8,414.89	68.85	123.222		
5,300.00	4,529.24	3,452.00	3,269.86	51.67	22.64	99.14	-7,360.58	3,100.93	8,514.80	8,444.44	70.36	121.014		
5,400.00	4,607.36	3,499.22	3,313.54	52.99	23.01	99.24	-7,365.54	3,118.19	8,546.43	8,474.56	71.87	118.910		
5,500.00	4,685.47	3,733.86	3,530.30	54.32	24.90	99.74	-7,388.86	3,204.89	8,577.85	8,502.74	75.11	114.200		
5,600.00	4,763.59	3,781.20	3,573.92	55.64	25.28	99.83	-7,393.17	3,222.79	8,608.60	8,531.95	76.64	112.323		
5,700.00	4,841.71	3,802.00	3,593.04	56.97	25.45	99.88	-7,395.13	3,230.73	8,639.97	8,562.06	77.91	110.892		
5,800.00	4,919.83	3,843.23	3,630.96	58.30	25.79	99.96	-7,399.31	3,246.38	8,672.00	8,592.63	79.37	109.263		
5,900.00	4,997.94	4,820.84	4,559.10	59.62	32.29	102.38	-7,469.56	3,538.06	8,704.16	8,616.17	87.99	98.924		
6,000.00	5,076.06	4,876.54	4,613.69	60.95	32.56	102.55	-7,471.33	3,548.97	8,727.89	8,638.43	89.46	97.565		
6,100.00	5,154.18	5,161.78	4,894.71	62.28	33.79	103.45	-7,478.95	3,596.92	8,751.42	8,659.38	92.04	95.088		
6,200.00	5,232.29	6,200.00	5,001.56	63.61	37.57	103.81	-7,480.73	3,610.88	8,773.67	8,676.63	97.04	90.412		
6,300.00	5,310.41	5,348.76	5,080.28	64.93	34.46	104.09	-7,482.06	3,619.43	8,796.05	8,700.91	95.14	92.452		
6,400.00	5,388.53	5,401.16	5,132.46	66.26	34.62	104.28	-7,483.19	3,624.19	8,818.99	8,722.49	96.49	91.396		
6,500.00	5,466.64	5,460.00	5,191.11	67.59	34.80	104.49	-7,484.78	3,628.61	8,842.53	8,744.69	97.85	90.369		
6,600.00	5,544.76	5,697.79	5,428.71	68.92	35.36	105.41	-7,489.82	3,635.83	8,865.48	8,765.82	99.65	88.963		
6,700.00	5,622.88	5,800.15	5,531.05	70.25	35.57	105.81	-7,491.21	3,636.58	8,888.23	8,787.18	101.04	87.964		
6,800.00	5,701.00	5,892.97	5,623.86	71.58	35.76	106.18	-7,492.30	3,637.13	8,911.22	8,808.82	102.40	87.022		
6,900.00	5,779.11	6,028.65	5,759.54	72.91	36.03	106.71	-7,493.38	3,637.71	8,934.28	8,830.43	103.85	86.028		
7,000.00	5,857.23	6,125.10	5,855.99	74.23	36.22	107.09	-7,493.69	3,637.87	8,957.33	8,852.13	105.20	85.146		
7,100.00	5,935.35	6,202.87	5,933.76	75.56	36.37	107.40	-7,493.91	3,637.69	8,980.72	8,874.23	106.49	84.331		
7,200.00	6,013.46	6,352.19	6,083.07	76.89	36.66	107.98	-7,493.96	3,636.92	9,004.36	8,896.43	107.93	83.426		
7,300.00	6,091.58	6,489.65	6,220.53	78.22	36.92	108.52	-7,492.69	3,636.51	9,027.50	8,918.16	109.34	82.562		
7,400.00	6,169.70	6,585.77	6,316.64	79.55	37.12	108.89	-7,491.49	3,636.25	9,050.81	8,940.15	110.66	81.789		
7,500.00	6,247.81	6,692.64	6,423.50	80.88	37.34	109.30	-7,489.88	3,636.09	9,074.29	8,962.29	112.00	81.020		
7,600.00	6,325.93	6,805.30	6,536.14	82.21	37.57	109.73	-7,487.79	3,636.23	9,097.87	8,984.52	113.35	80.265		
7,700.00	6,404.05	6,928.50	6,659.31	83.54	37.83	110.19	-7,484.97	3,636.55	9,121.45	9,006.73	114.72	79.513		
7,800.00	6,482.17	7,008.81	6,739.59	84.87	38.01	110.50	-7,482.90	3,636.91	9,145.16	9,029.17	115.99	78.846		
7,900.00	6,560.28	7,083.32	6,814.07	86.20	38.18	110.77	-7,481.02	3,637.57	9,169.26	9,052.02	117.24	78.210		
8,000.00	6,638.40	7,161.57	6,892.29	87.53	38.36	111.06	-7,479.07	3,638.56	9,193.73	9,075.23	118.50	77.586		
8,100.00	6,716.52	7,243.07	6,973.75	88.86	38.55	111.36	-7,477.04	3,639.72	9,218.52	9,098.76	119.76	76.976		
8,200.00	6,794.63	7,314.42	7,045.08	90.20	38.72	111.62	-7,475.25	3,640.82	9,243.65	9,122.66	120.99	76.401		
8,300.00	6,872.75	7,368.78	7,099.42	91.53	38.85	111.82	-7,474.02	3,641.78	9,269.27	9,147.10	122.17	75.871		
8,400.00	6,950.87	7,423.22	7,153.83	92.86	38.99	112.01	-7,472.93	3,642.86	9,295.43	9,172.08	123.34	75.362		
8,500.00	7,028.98	7,468.00	7,198.60	94.19	39.10	112.18	-7,472.15	3,643.83	9,322.13	9,197.65	124.48	74.888		
8,600.00	7,107.10	7,533.94	7,264.50	95.52	39.27	112.41	-7,471.18	3,645.43	9,349.34	9,223.66	125.68	74.391		
8,647.91	7,144.53	7,560.78	7,291.34	96.16	39.34	112.51	-7,470.85	3,646.13	9,362.56	9,236.32	126.23	74.168		
8,650.00	7,146.16	7,561.95	7,292.51	96.18	39.34	112.26	-7,470.83	3,646.16	9,363.13	9,236.87	126.26	74.159		
8,700.00	7,185.66	7,590.30	7,320.84	96.84	39.42	106.13	-7,470.52	3,646.94	9,374.77	9,247.93	126.85	73.907		
8,750.00	7,225.78	7,619.08	7,349.61	97.47	39.49	99.58	-7,470.24	3,647.77	9,382.27	9,254.82	127.44	73.618		
8,800.00	7,266.21	7,643.00	7,373.52	98.08	39.56	92.79	-7,470.04	3,648.48	9,385.57	9,257.54	128.03	73.306		
8,850.00	7,306.63	7,677.11	7,407.61	98.64	39.65	86.06	-7,469.79	3,649.51	9,384.66	9,256.00	128.65	72.946		
8,900.00	7,346.75	7,705.88	7,436.37	99.17	39.73	79.58	-7,469.63	3,650.38	9,379.54	9,250.29	129.25	72.572		
8,950.00	7,386.25	7,734.20	7,464.68	99.64	39.80	73.56	-7,469.50	3,651.23	9,370.24	9,240.42	129.82	72.178		
9,000.00	7,424.84	7,761.87	7,492.34	100.06	39.88	68.13	-7,469.41	3,652.06	9,356.84	9,226.47	130.37	71.769		
9,050.00	7,462.22	7,788.70	7,519.15	100.42	39.95	63.36	-7,469.36	3,652.86	9,339.43	9,208.53	130.90	71.349		
9,100.00	7,498.11	7,817.00	7,547.44	100.74	40.03	59.28	-7,469.34	3,653.71	9,318.13	9,186.73	131.40	70.914		
9,150.00	7,532.24	7,857.25	7,587.68	100.99	40.14	55.90	-7,469.31	3,654.86	9,293.05	9,161.14	131.91	70.451		
9,200.00	7,564.34	7,899.26	7,629.67	101.19	40.25	53.15	-7,469.24	3,656.00	9,264.35	9,131.96	132.39	69.978		
9,250.00	7,594.17	7,938.10	7,668.49	101.34	40.35	50.98	-7,469.12	3,656.98	9,232.23	9,099.40	132.83	69.506		
9,300.00	7,621.50	7,973.49	7,703.87	101.45	40.45	49.37	-7,468.98	3,657.82	9,196.93	9,063.72	133.22	69.037		
9,350.00	7,646.13	8,052.59	7,782.95	101.50	40.66	48.62	-7,468.44	3,659.67	9,158.70	9,024.99	133.71	68.496		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,177.49	7,907.79	101.51	41.00	48.96	-7,466.50	3,663.18	9,117.65	8,983.34	134.31	67.886		
9,450.00	7,686.55	8,177.49	7,907.79	101.48	44.44	48.58	-7,467.36	3,661.49	9,074.12	8,936.18	137.93	65.787		
9,500.00	7,702.04	8,177.49	7,907.79	101.42	44.57	49.76	-7,467.17	3,661.89	9,028.89	8,890.67	138.22	65.322		
9,550.00	7,714.20	8,177.49	7,907.79	101.33	41.05	53.23	-7,466.16	3,663.80	8,981.99	8,847.17	134.82	66.622		
9,600.00	7,722.96	8,201.24	7,931.52	101.20	41.07	58.81	-7,466.07	3,663.97	8,933.80	8,798.87	134.93	66.211		
9,650.00	7,728.24	8,204.11	7,934.39	101.06	41.08	71.06	-7,466.02	3,664.07	8,884.71	8,749.71	135.01	65.809		
9,699.97	7,730.00	8,204.70	7,934.98	100.90	41.08	102.36	-7,466.01	3,664.09	8,835.12	8,700.06	135.06	65.417		
9,800.00	7,730.00	8,203.60	7,933.88	100.56	41.08	102.29	-7,466.03	3,664.05	8,735.55	8,600.42	135.13	64.646		
9,900.00	7,730.00	8,202.49	7,932.76	100.24	41.07	102.21	-7,466.05	3,664.01	8,636.03	8,500.82	135.20	63.874		
10,000.00	7,730.00	8,201.36	7,931.64	99.93	41.07	102.14	-7,466.07	3,663.97	8,536.51	8,401.23	135.28	63.102		
10,100.00	7,730.00	8,200.23	7,930.51	99.64	41.07	102.06	-7,466.09	3,663.94	8,437.01	8,301.65	135.36	62.331		
10,200.00	7,730.00	8,199.08	7,929.36	99.36	41.06	101.98	-7,466.11	3,663.90	8,337.52	8,202.08	135.44	61.559		
10,300.00	7,730.00	8,197.92	7,928.20	99.09	41.06	101.91	-7,466.13	3,663.86	8,238.04	8,102.51	135.52	60.787		
10,400.00	7,730.00	8,196.75	7,927.03	98.84	41.06	101.83	-7,466.15	3,663.82	8,138.57	8,002.96	135.61	60.015		
10,500.00	7,730.00	8,195.57	7,925.85	98.61	41.05	101.75	-7,466.17	3,663.78	8,039.12	7,903.42	135.70	59.243		
10,600.00	7,730.00	8,194.38	7,924.66	98.39	41.05	101.67	-7,466.19	3,663.74	7,939.68	7,803.89	135.79	58.471		
10,700.00	7,730.00	8,193.17	7,923.46	98.18	41.05	101.59	-7,466.21	3,663.70	7,840.25	7,704.37	135.88	57.699		
10,800.00	7,730.00	8,191.96	7,922.24	97.99	41.04	101.51	-7,466.24	3,663.66	7,740.84	7,604.86	135.98	56.927		
10,900.00	7,730.00	8,190.73	7,921.01	97.81	41.04	101.42	-7,466.26	3,663.62	7,641.44	7,505.36	136.08	56.155		
11,000.00	7,730.00	8,189.49	7,919.77	97.64	41.04	101.34	-7,466.28	3,663.58	7,542.06	7,405.88	136.18	55.383		
11,100.00	7,730.00	11,100.00	7,868.91	97.50	48.91	97.90	-7,467.07	3,662.11	7,442.68	7,298.51	144.17	51.623		
11,200.00	7,730.00	11,200.00	7,867.65	97.36	49.18	97.82	-7,467.08	3,662.08	7,343.32	7,198.77	144.56	50.799		
11,300.00	7,730.00	11,300.00	7,866.40	97.24	49.46	97.73	-7,467.10	3,662.04	7,243.98	7,099.04	144.94	49.978		
11,400.00	7,730.00	11,400.00	7,865.14	97.14	49.73	97.64	-7,467.11	3,662.01	7,144.66	6,999.33	145.33	49.161		
11,500.00	7,730.00	11,500.00	7,863.88	97.06	50.00	97.56	-7,467.13	3,661.98	7,045.36	6,899.63	145.73	48.346		
11,600.00	7,730.00	11,600.00	7,862.62	96.98	50.27	97.47	-7,467.15	3,661.94	6,946.07	6,799.95	146.12	47.535		
11,700.00	7,730.00	11,700.00	7,861.37	96.93	50.54	97.39	-7,467.16	3,661.91	6,846.81	6,700.28	146.53	46.728		
11,800.00	7,730.00	11,800.00	7,860.11	96.90	50.82	97.30	-7,467.18	3,661.88	6,747.56	6,600.63	146.93	45.923		
11,900.00	7,730.00	11,900.00	7,858.85	96.88	51.09	97.22	-7,467.19	3,661.84	6,648.34	6,501.00	147.34	45.122		
12,000.00	7,730.00	8,200.11	7,930.39	96.88	41.06	102.05	-7,466.00	3,663.90	6,549.23	6,411.75	137.48	47.637		
12,100.00	7,730.00	8,194.42	7,924.70	96.90	41.04	101.67	-7,466.13	3,663.72	6,450.08	6,312.47	137.61	46.871		
12,200.00	7,730.00	8,188.96	7,919.25	96.94	41.03	101.31	-7,466.25	3,663.55	6,350.95	6,213.20	137.75	46.105		
12,300.00	7,730.00	8,183.73	7,914.02	97.00	41.02	100.96	-7,466.37	3,663.38	6,251.85	6,113.96	137.89	45.339		
12,400.00	7,730.00	8,178.71	7,909.01	97.08	41.00	100.62	-7,466.47	3,663.22	6,152.78	6,014.74	138.04	44.573		
12,500.00	7,730.00	8,173.89	7,904.19	97.18	40.99	100.29	-7,466.57	3,663.07	6,053.73	5,915.54	138.19	43.806		
12,600.00	7,730.00	8,169.26	7,899.56	97.31	40.98	99.98	-7,466.67	3,662.93	5,954.71	5,816.36	138.35	43.040		
12,700.00	7,730.00	8,164.80	7,895.10	97.46	40.97	99.68	-7,466.76	3,662.79	5,855.73	5,717.21	138.52	42.274		
12,800.00	7,730.00	8,160.51	7,890.82	97.64	40.95	99.39	-7,466.84	3,662.66	5,756.78	5,618.09	138.69	41.507		
12,900.00	7,730.00	8,156.37	7,886.68	97.85	40.94	99.11	-7,466.92	3,662.54	5,657.86	5,518.99	138.87	40.741		
13,000.00	7,730.00	8,152.39	7,882.70	98.09	40.93	98.84	-7,467.00	3,662.42	5,558.99	5,419.92	139.06	39.975		
13,100.00	7,730.00	8,148.54	7,878.86	98.35	40.92	98.58	-7,467.07	3,662.30	5,460.15	5,320.89	139.26	39.209		
13,200.00	7,730.00	8,144.83	7,875.15	98.65	40.91	98.33	-7,467.14	3,662.19	5,361.35	5,221.89	139.46	38.443		
13,300.00	7,730.00	8,141.24	7,871.56	98.98	40.90	98.08	-7,467.20	3,662.09	5,262.60	5,122.92	139.68	37.677		
13,400.00	7,730.00	8,137.78	7,868.10	99.34	40.89	97.85	-7,467.26	3,661.98	5,163.89	5,024.00	139.90	36.912		
13,500.00	7,730.00	8,134.43	7,864.75	99.74	40.88	97.62	-7,467.32	3,661.89	5,065.24	4,925.11	140.13	36.147		
13,600.00	7,730.00	8,131.18	7,861.51	100.17	40.87	97.40	-7,467.38	3,661.79	4,966.63	4,826.26	140.37	35.382		
13,700.00	7,730.00	8,128.04	7,858.37	100.65	40.87	97.18	-7,467.43	3,661.70	4,868.09	4,727.46	140.62	34.618		
13,800.00	7,730.00	8,125.00	7,855.33	101.16	40.86	96.97	-7,467.48	3,661.62	4,769.60	4,628.71	140.89	33.854		
13,900.00	7,730.00	8,122.06	7,852.39	101.71	40.85	96.77	-7,467.53	3,661.53	4,671.17	4,530.01	141.16	33.090		
14,000.00	7,730.00	8,119.20	7,849.53	102.30	40.84	96.58	-7,467.57	3,661.45	4,572.82	4,431.36	141.45	32.328		
14,100.00	7,730.00	8,116.43	7,846.76	102.93	40.83	96.39	-7,467.62	3,661.37	4,474.53	4,332.78	141.75	31.565		
14,200.00	7,730.00	8,113.74	7,844.07	103.60	40.83	96.20	-7,467.66	3,661.30	4,376.32	4,234.25	142.07	30.804		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 74-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	8,111.13	7,841.46	104.32	40.82	96.02	-7,467.70	3,661.22	4,278.19	4,135.79	142.40	30.043		
14,400.00	7,730.00	8,108.59	7,838.93	105.07	40.81	95.85	-7,467.74	3,661.15	4,180.16	4,037.41	142.75	29.283		
14,500.00	7,730.00	8,106.13	7,836.47	105.86	40.81	95.68	-7,467.77	3,661.08	4,082.21	3,939.10	143.11	28.524		
14,600.00	7,730.00	8,103.73	7,834.07	106.70	40.80	95.52	-7,467.81	3,661.02	3,984.37	3,840.87	143.50	27.766		
14,700.00	7,730.00	8,101.40	7,831.75	107.57	40.79	95.36	-7,467.84	3,660.95	3,886.63	3,742.73	143.90	27.009		
14,800.00	7,730.00	8,099.14	7,829.48	108.48	40.79	95.20	-7,467.88	3,660.89	3,789.01	3,644.69	144.33	26.253		
14,900.00	7,730.00	8,096.93	7,827.28	109.43	40.78	95.05	-7,467.91	3,660.83	3,691.52	3,546.75	144.77	25.499		
15,000.00	7,730.00	8,094.79	7,825.13	110.42	40.78	94.90	-7,467.94	3,660.77	3,594.17	3,448.93	145.24	24.746		
15,100.00	7,730.00	8,092.70	7,823.04	111.43	40.77	94.76	-7,467.96	3,660.72	3,496.96	3,351.22	145.74	23.994		
15,200.00	7,730.00	8,090.66	7,821.00	112.49	40.77	94.62	-7,467.99	3,660.66	3,399.92	3,253.65	146.27	23.245		
15,300.00	7,730.00	8,088.67	7,819.02	113.57	40.76	94.48	-7,468.02	3,660.61	3,303.05	3,156.23	146.82	22.497		
15,400.00	7,730.00	8,086.74	7,817.09	114.68	40.75	94.35	-7,468.04	3,660.56	3,206.37	3,058.96	147.41	21.751		
15,500.00	7,730.00	8,084.85	7,815.20	115.82	40.75	94.22	-7,468.07	3,660.51	3,109.91	2,961.87	148.04	21.007		
15,600.00	7,730.00	8,083.01	7,813.36	116.99	40.74	94.09	-7,468.09	3,660.46	3,013.67	2,864.96	148.71	20.266		
15,700.00	7,730.00	8,081.21	7,811.56	118.19	40.74	93.97	-7,468.12	3,660.41	2,917.68	2,768.27	149.41	19.528		
15,800.00	7,730.00	8,079.46	7,809.81	119.41	40.74	93.85	-7,468.14	3,660.36	2,821.97	2,671.81	150.17	18.792		
15,900.00	7,730.00	8,077.75	7,808.10	120.65	40.73	93.73	-7,468.16	3,660.32	2,726.57	2,575.60	150.97	18.060		
16,000.00	7,730.00	8,076.07	7,806.43	121.91	40.73	93.62	-7,468.18	3,660.27	2,631.51	2,479.68	151.83	17.332		
16,100.00	7,730.00	8,074.44	7,804.79	123.20	40.72	93.50	-7,468.20	3,660.23	2,536.83	2,384.08	152.75	16.608		
16,200.00	7,730.00	8,072.84	7,803.20	124.50	40.72	93.39	-7,468.22	3,660.19	2,442.57	2,288.84	153.73	15.889		
16,300.00	7,730.00	8,071.28	7,801.64	125.82	40.71	93.29	-7,468.24	3,660.15	2,348.79	2,194.00	154.78	15.175		
16,400.00	7,730.00	8,069.76	7,800.11	127.16	40.71	93.18	-7,468.25	3,660.11	2,255.54	2,099.62	155.92	14.466		
16,500.00	7,730.00	8,068.27	7,798.62	128.52	40.71	93.08	-7,468.27	3,660.07	2,162.89	2,005.75	157.14	13.764		
16,600.00	7,730.00	8,066.81	7,797.16	129.89	40.70	92.98	-7,468.29	3,660.03	2,070.93	1,912.48	158.45	13.070		
16,700.00	7,730.00	8,065.38	7,795.73	131.27	40.70	92.88	-7,468.31	3,660.00	1,979.74	1,819.88	159.86	12.384		
16,800.00	7,730.00	8,063.98	7,794.34	132.67	40.69	92.78	-7,468.32	3,659.96	1,889.44	1,728.06	161.38	11.708		
16,900.00	7,730.00	8,062.61	7,792.97	134.09	40.69	92.69	-7,468.34	3,659.92	1,800.17	1,637.16	163.02	11.043		
17,000.00	7,730.00	8,061.27	7,791.63	135.51	40.69	92.60	-7,468.35	3,659.89	1,712.09	1,547.31	164.78	10.390		
17,100.00	7,730.00	8,059.96	7,790.32	136.95	40.68	92.51	-7,468.36	3,659.86	1,625.38	1,458.71	166.67	9.752		
17,200.00	7,730.00	8,058.68	7,789.04	138.40	40.68	92.42	-7,468.38	3,659.82	1,540.29	1,371.59	168.70	9.130		
17,300.00	7,730.00	8,057.42	7,787.78	139.85	40.68	92.33	-7,468.39	3,659.79	1,457.09	1,286.23	170.85	8.528		
17,400.00	7,730.00	8,056.19	7,786.55	141.32	40.67	92.24	-7,468.41	3,659.76	1,376.12	1,203.00	173.13	7.949		
17,500.00	7,730.00	8,054.98	7,785.34	142.80	40.67	92.16	-7,468.42	3,659.73	1,297.82	1,122.32	175.49	7.395		
17,600.00	7,730.00	8,053.79	7,784.15	144.28	40.67	92.08	-7,468.43	3,659.70	1,222.67	1,044.76	177.91	6.872		
17,700.00	7,730.00	8,052.63	7,782.99	145.78	40.66	92.00	-7,468.44	3,659.67	1,151.32	971.01	180.31	6.385		
17,800.00	7,730.00	8,051.49	7,781.85	147.28	40.66	91.92	-7,468.45	3,659.64	1,084.50	901.93	182.57	5.940		
17,900.00	7,730.00	8,050.37	7,780.73	148.79	40.66	91.84	-7,468.46	3,659.62	1,023.10	838.56	184.54	5.544		
18,000.00	7,730.00	8,049.28	7,779.64	150.31	40.65	91.77	-7,468.48	3,659.59	968.16	782.15	186.01	5.205		
18,100.00	7,730.00	8,048.20	7,778.56	151.83	40.65	91.69	-7,468.49	3,659.56	920.84	734.11	186.72	4.932		
18,200.00	7,730.00	8,047.14	7,777.51	153.37	40.65	91.62	-7,468.50	3,659.53	882.34	695.96	186.39	4.734		
18,300.00	7,730.00	8,046.11	7,776.47	154.90	40.65	91.55	-7,468.51	3,659.51	853.89	669.12	184.77	4.621		
18,400.00	7,730.00	8,045.09	7,775.45	156.45	40.64	91.48	-7,468.52	3,659.48	836.49	654.76	181.73	4.603 SF		
18,497.06	7,730.00	8,044.12	7,774.48	157.95	40.64	91.41	-7,468.53	3,659.46	830.84	653.39	177.45	4.682 CC, ES		
18,500.00	7,730.00	8,044.09	7,774.45	158.00	40.64	91.41	-7,468.53	3,659.46	830.85	653.54	177.30	4.686		
18,600.00	7,730.00	8,043.11	7,773.47	159.55	40.64	91.34	-7,468.53	3,659.43	837.19	665.45	171.74	4.875		
18,700.00	7,730.00	8,042.14	7,772.51	161.11	40.63	91.28	-7,468.54	3,659.41	855.26	689.83	165.43	5.170		
18,800.00	7,730.00	8,041.20	7,771.56	162.68	40.63	91.21	-7,468.55	3,659.39	884.34	725.52	158.82	5.568		
18,900.00	7,730.00	8,040.27	7,770.63	164.25	40.63	91.15	-7,468.56	3,659.36	923.38	771.08	152.31	6.063		
19,000.00	7,730.00	8,039.35	7,769.72	165.83	40.63	91.08	-7,468.57	3,659.34	971.19	825.00	146.20	6.643		
19,100.00	7,730.00	8,038.45	7,768.82	167.41	40.62	91.02	-7,468.58	3,659.32	1,026.55	885.85	140.69	7.296		
19,200.00	7,730.00	8,037.57	7,767.94	168.99	40.62	90.96	-7,468.58	3,659.30	1,088.29	952.41	135.88	8.009		
19,300.00	7,730.00	8,036.70	7,767.07	170.58	40.62	90.90	-7,468.59	3,659.28	1,155.40	1,023.62	131.78	8.768		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		74-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,400.00	7,730.00	8,035.85	7,766.22	172.17	40.62	90.84	-7,468.60	3,659.26	1,227.00	1,098.64	128.36	9.559	
19,430.54	7,730.00	8,035.59	7,765.96	172.66	40.62	90.82	-7,468.60	3,659.25	1,249.64	1,122.19	127.44	9.806	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.45	-5,369.55	1,698.30	5,631.73					
100.00	100.00	51.48	51.48	0.13	0.08	162.45	-5,369.80	1,698.17	5,632.08	5,631.86	0.22	N/A		
200.00	200.00	161.23	161.21	0.49	0.39	162.47	-5,371.27	1,697.15	5,633.11	5,632.22	0.89	6,357.186		
300.00	300.00	254.11	254.08	0.85	0.73	162.48	-5,372.16	1,695.94	5,633.65	5,632.07	1.58	3,571.444		
400.00	400.00	348.40	348.36	1.21	1.07	162.50	-5,373.33	1,694.71	5,634.43	5,632.16	2.28	2,476.649		
500.00	500.00	410.76	410.70	1.57	1.29	162.51	-5,374.37	1,693.61	5,635.52	5,632.67	2.86	1,971.151		
600.00	599.98	456.00	455.90	1.92	1.46	97.14	-5,375.64	1,692.30	5,637.63	5,634.26	3.38	1,669.377		
700.00	699.84	511.51	511.32	2.28	1.66	97.13	-5,377.88	1,690.15	5,641.04	5,637.11	3.94	1,433.455		
800.00	799.45	549.00	548.72	2.64	1.80	97.09	-5,379.84	1,688.38	5,645.86	5,641.42	4.44	1,272.822		
900.00	898.70	599.91	599.45	3.02	1.99	97.06	-5,383.13	1,685.64	5,652.08	5,647.08	5.00	1,129.967		
1,000.00	997.47	640.00	639.35	3.41	2.15	97.00	-5,386.22	1,683.28	5,659.77	5,654.23	5.55	1,020.510		
1,100.00	1,095.62	683.50	682.59	3.84	2.32	96.94	-5,390.08	1,680.50	5,668.93	5,662.80	6.13	924.715		
1,200.00	1,193.06	732.00	730.72	4.29	2.51	96.88	-5,394.99	1,677.10	5,679.58	5,672.82	6.76	839.683		
1,300.00	1,289.64	763.31	761.74	4.78	2.64	96.76	-5,398.52	1,674.74	5,691.69	5,684.33	7.37	772.386		
1,400.00	1,385.27	800.98	799.00	5.32	2.79	96.63	-5,403.16	1,671.69	5,705.34	5,697.30	8.04	709.711		
1,500.00	1,479.82	825.00	822.72	5.90	2.89	96.43	-5,406.34	1,669.63	5,720.55	5,711.85	8.70	657.712		
1,600.00	1,573.17	877.83	874.77	6.53	3.12	96.35	-5,413.90	1,664.70	5,737.18	5,727.65	9.53	602.120		
1,700.00	1,665.21	919.00	915.21	7.23	3.30	96.20	-5,420.32	1,660.45	5,755.35	5,744.99	10.36	555.476		
1,800.00	1,755.84	959.51	954.91	7.98	3.49	96.03	-5,427.02	1,655.91	5,774.98	5,763.72	11.25	513.244		
1,900.00	1,844.94	1,012.00	1,006.19	8.80	3.74	95.92	-5,436.18	1,649.53	5,796.03	5,783.78	12.25	473.091		
2,000.00	1,932.39	1,036.52	1,030.08	9.68	3.86	95.61	-5,440.67	1,646.34	5,818.52	5,805.33	13.19	441.148		
2,100.00	2,018.11	1,066.70	1,059.42	10.63	4.01	95.32	-5,446.44	1,642.18	5,842.58	5,828.37	14.21	411.191		
2,200.00	2,101.97	1,106.00	1,097.48	11.65	4.20	95.07	-5,454.35	1,636.41	5,868.22	5,852.89	15.33	382.792		
2,300.00	2,183.88	1,162.20	1,151.77	12.74	4.50	94.93	-5,465.95	1,627.69	5,895.24	5,878.64	16.60	355.129		
2,400.00	2,263.74	1,210.97	1,198.86	13.90	4.75	94.71	-5,475.95	1,619.88	5,923.32	5,905.43	17.89	331.016		
2,431.61	2,288.54	1,216.81	1,204.50	14.29	4.78	94.57	-5,477.17	1,618.95	5,932.52	5,914.25	18.27	324.779		
2,500.00	2,341.97	1,232.00	1,219.14	15.13	4.86	94.69	-5,480.41	1,616.54	5,952.91	5,933.82	19.09	311.799		
2,600.00	2,420.08	1,265.52	1,251.46	16.37	5.04	94.95	-5,487.68	1,611.43	5,983.76	5,963.40	20.36	293.899		
2,700.00	2,498.20	1,316.49	1,300.68	17.63	5.32	95.34	-5,498.83	1,604.26	6,015.72	5,994.00	21.72	277.012		
2,800.00	2,576.32	1,448.39	1,428.49	18.89	6.02	96.32	-5,526.58	1,587.27	6,047.99	6,024.51	23.48	257.574		
2,900.00	2,654.43	1,509.37	1,487.61	20.17	6.35	96.78	-5,539.12	1,579.12	6,080.86	6,055.97	24.88	244.372		
3,000.00	2,732.55	1,548.70	1,525.68	21.45	6.56	97.08	-5,547.35	1,573.62	6,114.72	6,088.54	26.17	233.638		
3,100.00	2,810.67	1,584.00	1,559.79	22.74	6.75	97.34	-5,554.87	1,568.51	6,149.62	6,122.19	27.43	224.191		
3,200.00	2,888.78	1,621.03	1,595.52	24.03	6.96	97.62	-5,562.92	1,563.06	6,185.59	6,156.90	28.69	215.593		
3,300.00	2,966.90	1,654.84	1,628.11	25.33	7.15	97.87	-5,570.42	1,558.08	6,222.62	6,192.70	29.92	207.948		
3,400.00	3,045.02	1,706.00	1,677.37	26.63	7.44	98.25	-5,581.98	1,550.56	6,260.68	6,229.44	31.24	200.409		
3,500.00	3,123.13	1,940.13	1,903.75	27.94	8.74	99.96	-5,631.88	1,517.75	6,298.95	6,265.42	33.52	187.889		
3,600.00	3,201.25	2,118.25	2,076.99	29.24	9.69	101.24	-5,665.28	1,493.31	6,335.87	6,300.38	35.48	178.555		
3,700.00	3,279.37	2,167.08	2,124.54	30.55	9.95	101.58	-5,674.09	1,486.56	6,373.30	6,336.54	36.76	173.380		
3,800.00	3,357.49	2,197.88	2,154.50	31.86	10.11	101.80	-5,679.80	1,482.20	6,411.74	6,373.81	37.93	169.048		
3,900.00	3,435.60	2,240.00	2,195.38	33.18	10.34	102.10	-5,687.85	1,476.11	6,451.23	6,412.08	39.14	164.806		
4,000.00	3,513.72	2,265.31	2,219.94	34.49	10.47	102.28	-5,692.81	1,472.47	6,491.66	6,451.40	40.26	161.256		
4,100.00	3,591.84	2,307.16	2,260.56	35.81	10.70	102.57	-5,701.11	1,466.75	6,533.00	6,491.56	41.44	157.631		
4,200.00	3,669.95	2,372.46	2,323.97	37.12	11.06	103.02	-5,714.24	1,458.34	6,575.16	6,532.41	42.75	153.816		
4,300.00	3,748.07	2,530.76	2,477.86	38.44	11.91	104.11	-5,744.89	1,437.45	6,617.56	6,573.02	44.53	148.592		
4,400.00	3,826.19	2,559.73	2,506.05	39.76	12.06	104.30	-5,750.38	1,433.68	6,660.19	6,614.57	45.62	145.996		
4,500.00	3,904.30	2,595.66	2,540.98	41.08	12.25	104.54	-5,757.30	1,428.93	6,703.71	6,656.98	46.73	143.468		
4,600.00	3,982.42	2,643.40	2,587.35	42.40	12.51	104.87	-5,766.68	1,422.50	6,748.06	6,700.17	47.89	140.921		
4,700.00	4,060.54	2,990.76	2,926.08	43.72	14.33	107.15	-5,828.90	1,377.54	6,792.56	6,741.93	50.62	134.177		
4,800.00	4,138.66	3,082.01	3,015.58	45.05	14.78	107.73	-5,843.07	1,366.77	6,835.31	6,783.33	51.98	131.487		
4,900.00	4,216.77	3,084.00	3,017.53	46.37	14.79	107.75	-5,843.38	1,366.54	6,878.80	6,825.92	52.88	130.091		
5,000.00	4,294.89	3,127.49	3,060.16	47.69	15.01	108.02	-5,850.33	1,361.48	6,923.04	6,869.07	53.97	128.278		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	3,149.23	3,081.44	49.02	15.11	108.16	-5,854.00	1,358.96	6,968.33	6,913.40	54.93	126.849		
5,200.00	4,451.12	3,178.00	3,109.56	50.34	15.26	108.34	-5,859.08	1,355.61	7,014.57	6,958.65	55.92	125.434		
5,300.00	4,529.24	3,202.51	3,133.49	51.67	15.39	108.49	-5,863.53	1,352.75	7,061.67	7,004.79	56.88	124.161		
5,400.00	4,607.36	3,239.17	3,169.25	52.99	15.58	108.72	-5,870.31	1,348.41	7,109.54	7,051.66	57.88	122.832		
5,500.00	4,685.47	3,272.00	3,201.26	54.32	15.75	108.92	-5,876.49	1,344.48	7,158.17	7,099.32	58.85	121.630		
5,600.00	4,763.59	3,320.04	3,248.03	55.64	16.01	109.22	-5,885.65	1,338.44	7,207.49	7,147.59	59.90	120.329		
5,700.00	4,841.71	3,365.00	3,291.73	56.97	16.25	109.50	-5,894.27	1,332.32	7,257.47	7,196.55	60.91	119.143		
5,800.00	4,919.83	3,398.69	3,324.44	58.30	16.43	109.71	-5,900.82	1,327.60	7,308.14	7,246.28	61.86	118.148		
5,900.00	4,997.94	3,434.10	3,358.79	59.62	16.63	109.93	-5,907.84	1,322.67	7,359.51	7,296.72	62.79	117.199		
6,000.00	5,076.06	3,459.00	3,382.94	60.95	16.76	110.09	-5,912.86	1,319.22	7,411.60	7,347.94	63.66	116.423		
6,100.00	5,154.18	3,459.00	3,382.94	62.28	16.76	110.09	-5,912.86	1,319.22	7,464.58	7,400.22	64.37	115.969		
6,200.00	5,232.29	3,503.68	3,426.20	63.61	17.01	110.36	-5,922.24	1,313.16	7,518.10	7,452.78	65.32	115.089		
6,300.00	5,310.41	3,523.01	3,444.88	64.93	17.12	110.48	-5,926.49	1,310.61	7,572.54	7,506.42	66.12	114.529		
6,400.00	5,388.53	5,561.93	5,454.28	66.26	25.25	120.90	-6,136.77	1,179.26	7,611.15	7,534.89	76.26	99.804		
6,500.00	5,466.64	5,652.92	5,545.26	67.59	25.47	121.29	-6,135.91	1,179.67	7,648.18	7,570.78	77.39	98.822		
6,600.00	5,544.76	5,752.56	5,644.89	68.92	25.71	121.72	-6,134.72	1,179.93	7,685.37	7,606.83	78.55	97.844		
6,700.00	5,622.88	5,852.41	5,744.73	70.25	25.95	122.14	-6,133.23	1,180.30	7,722.63	7,642.93	79.70	96.900		
6,800.00	5,701.00	5,942.60	5,834.92	71.58	26.18	122.52	-6,131.67	1,180.49	7,760.05	7,679.24	80.81	96.029		
6,900.00	5,779.11	6,024.02	5,916.32	72.91	26.38	122.86	-6,130.13	1,180.54	7,797.68	7,715.79	81.89	95.222		
7,000.00	5,857.23	6,098.68	5,990.96	74.23	26.57	123.18	-6,128.70	1,180.39	7,835.67	7,752.72	82.94	94.472		
7,100.00	5,935.35	6,186.23	6,078.49	75.56	26.79	123.54	-6,126.96	1,180.07	7,873.92	7,789.89	84.03	93.704		
7,200.00	6,013.46	6,281.60	6,173.84	76.89	27.03	123.94	-6,124.89	1,179.73	7,912.34	7,827.21	85.14	92.936		
7,300.00	6,091.58	6,354.67	6,246.90	78.22	27.22	124.24	-6,123.26	1,179.45	7,951.02	7,864.85	86.17	92.276		
7,400.00	6,169.70	6,458.20	6,350.40	79.55	27.49	124.66	-6,120.79	1,178.98	7,989.90	7,902.61	87.29	91.535		
7,500.00	6,247.81	6,561.95	6,454.10	80.88	27.76	125.08	-6,118.00	1,178.64	8,028.80	7,940.40	88.40	90.820		
7,600.00	6,325.93	6,637.55	6,529.68	82.21	27.95	125.38	-6,115.98	1,178.74	8,067.90	7,978.48	89.42	90.223		
7,700.00	6,404.05	6,700.68	6,592.79	83.54	28.12	125.63	-6,114.40	1,179.02	8,107.34	8,016.95	90.39	89.690		
7,800.00	6,482.17	6,768.14	6,660.23	84.87	28.29	125.89	-6,112.88	1,179.33	8,147.22	8,055.84	91.37	89.165		
7,900.00	6,560.28	6,843.97	6,736.04	86.20	28.49	126.19	-6,111.20	1,179.70	8,187.40	8,095.02	92.37	88.633		
8,000.00	6,638.40	6,903.16	6,795.22	87.53	28.65	126.42	-6,109.96	1,179.93	8,227.96	8,134.65	93.31	88.176		
8,100.00	6,716.52	6,997.17	6,889.20	88.86	28.90	126.78	-6,108.11	1,180.27	8,268.87	8,174.51	94.37	87.626		
8,200.00	6,794.63	7,084.93	6,976.94	90.20	29.13	127.11	-6,106.25	1,180.96	8,309.82	8,214.43	95.39	87.112		
8,300.00	6,872.75	7,172.44	7,064.43	91.53	29.37	127.44	-6,104.38	1,181.71	8,350.99	8,254.57	96.41	86.617		
8,400.00	6,950.87	7,250.31	7,142.28	92.86	29.58	127.73	-6,102.66	1,182.46	8,392.32	8,294.92	97.39	86.168		
8,500.00	7,028.98	7,325.15	7,217.10	94.19	29.78	128.00	-6,101.14	1,183.28	8,433.97	8,335.61	98.36	85.746		
8,600.00	7,107.10	7,461.63	7,353.53	95.52	30.14	128.49	-6,098.05	1,185.14	8,475.65	8,376.11	99.54	85.147		
8,647.91	7,144.53	7,526.87	7,418.74	96.16	30.32	128.73	-6,096.31	1,186.40	8,495.46	8,395.35	100.11	84.865		
8,650.00	7,146.16	7,529.15	7,421.02	96.18	30.33	128.46	-6,096.25	1,186.45	8,496.32	8,396.19	100.13	84.855		
8,700.00	7,185.66	7,584.32	7,476.15	96.84	30.47	121.84	-6,094.75	1,187.79	8,514.90	8,414.22	100.68	84.572		
8,750.00	7,225.78	7,635.78	7,527.56	97.47	30.61	114.93	-6,093.35	1,189.26	8,529.59	8,428.35	101.24	84.247		
8,800.00	7,266.21	7,687.32	7,579.06	98.08	30.75	107.93	-6,091.95	1,190.94	8,540.29	8,438.47	101.82	83.873		
8,850.00	7,306.63	7,737.17	7,628.87	98.64	30.88	101.05	-6,090.57	1,192.61	8,546.95	8,444.54	102.41	83.459		
8,900.00	7,346.75	7,786.48	7,678.12	99.17	31.01	94.55	-6,089.12	1,194.20	8,549.52	8,446.53	102.99	83.011		
8,950.00	7,386.25	7,776.00	7,667.66	99.64	30.98	88.38	-6,089.43	1,193.87	8,548.18	8,444.82	103.36	82.702		
9,000.00	7,424.84	7,815.11	7,706.73	100.06	31.09	83.10	-6,088.33	1,194.98	8,542.79	8,438.88	103.90	82.221		
9,050.00	7,462.22	8,122.91	8,014.10	100.42	31.91	79.81	-6,076.72	1,205.22	8,533.62	8,428.26	105.36	80.997		
9,100.00	7,498.11	8,156.00	8,047.11	100.74	32.00	76.13	-6,075.06	1,206.80	8,519.36	8,413.51	105.85	80.487		
9,150.00	7,532.24	8,156.00	8,047.11	100.99	32.00	73.07	-6,075.06	1,206.80	8,501.39	8,395.18	106.21	80.045		
9,200.00	7,564.34	8,156.00	8,047.11	101.19	32.00	70.74	-6,075.06	1,206.80	8,479.95	8,373.40	106.54	79.591		
9,250.00	7,594.17	8,186.26	8,077.30	101.34	32.08	69.31	-6,073.62	1,208.12	8,455.02	8,348.06	106.96	79.049		
9,300.00	7,621.50	8,196.70	8,087.73	101.45	32.11	68.48	-6,073.15	1,208.53	8,426.93	8,319.65	107.28	78.550		
9,350.00	7,646.13	8,206.00	8,097.01	101.50	32.13	68.37	-6,072.73	1,208.87	8,395.82	8,288.25	107.57	78.048		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,667.87	8,214.08	8,105.08	101.51	32.15	69.03	-6,072.38	1,209.15	8,361.91	8,254.08	107.83	77.545		
9,450.00	7,686.55	8,220.90	8,111.89	101.48	32.17	70.51	-6,072.09	1,209.37	8,325.43	8,217.37	108.06	77.042		
9,500.00	7,702.04	8,250.00	8,140.95	101.42	32.25	73.21	-6,070.89	1,210.20	8,286.72	8,178.37	108.35	76.484		
9,550.00	7,714.20	8,250.00	8,140.95	101.33	32.25	76.80	-6,070.89	1,210.20	8,245.85	8,137.34	108.51	75.995		
9,600.00	7,722.96	8,250.00	8,140.95	101.20	32.25	81.79	-6,070.89	1,210.20	8,203.23	8,094.59	108.64	75.506		
9,650.00	7,728.24	8,250.00	8,140.95	101.06	32.25	88.50	-6,070.89	1,210.20	8,159.17	8,050.41	108.76	75.018		
9,699.97	7,730.00	8,250.00	8,140.95	100.90	32.25	97.23	-6,070.89	1,210.20	8,114.01	8,005.14	108.87	74.532		
9,800.00	7,730.00	8,250.00	8,140.95	100.56	32.25	97.23	-6,070.89	1,210.20	8,022.79	7,913.73	109.06	73.563		
9,900.00	7,730.00	8,250.00	8,140.95	100.24	32.25	97.23	-6,070.89	1,210.20	7,931.81	7,822.55	109.26	72.595		
10,000.00	7,730.00	8,250.00	8,140.95	99.93	32.25	97.23	-6,070.89	1,210.20	7,841.05	7,731.58	109.47	71.628		
10,100.00	7,730.00	8,250.00	8,140.95	99.64	32.25	97.23	-6,070.89	1,210.20	7,750.51	7,640.83	109.68	70.662		
10,200.00	7,730.00	8,250.00	8,140.95	99.36	32.25	97.23	-6,070.89	1,210.20	7,660.22	7,550.31	109.91	69.697		
10,300.00	7,730.00	8,224.34	8,115.32	99.09	32.18	96.79	-6,071.94	1,209.48	7,570.06	7,460.01	110.04	68.791		
10,400.00	7,730.00	8,222.60	8,113.59	98.84	32.18	96.76	-6,072.01	1,209.42	7,480.24	7,369.96	110.28	67.831		
10,500.00	7,730.00	8,220.84	8,111.83	98.61	32.17	96.73	-6,072.09	1,209.37	7,390.69	7,280.17	110.52	66.872		
10,600.00	7,730.00	8,219.08	8,110.07	98.39	32.17	96.70	-6,072.16	1,209.31	7,301.40	7,190.63	110.77	65.914		
10,700.00	7,730.00	8,217.29	8,108.29	98.18	32.16	96.67	-6,072.24	1,209.25	7,212.39	7,101.36	111.03	64.957		
10,800.00	7,730.00	8,215.49	8,106.49	97.99	32.16	96.64	-6,072.32	1,209.19	7,123.68	7,012.38	111.30	64.002		
10,900.00	7,730.00	8,213.68	8,104.68	97.81	32.15	96.61	-6,072.40	1,209.13	7,035.27	6,923.68	111.58	63.049		
11,000.00	7,730.00	8,211.85	8,102.86	97.64	32.15	96.58	-6,072.48	1,209.07	6,947.17	6,835.29	111.88	62.097		
11,100.00	7,730.00	8,210.01	8,101.02	97.50	32.14	96.55	-6,072.56	1,209.01	6,859.39	6,747.21	112.18	61.147		
11,200.00	7,730.00	8,208.15	8,099.16	97.36	32.14	96.51	-6,072.64	1,208.94	6,771.95	6,659.46	112.49	60.199		
11,300.00	7,730.00	8,206.27	8,097.29	97.24	32.13	96.48	-6,072.72	1,208.88	6,684.87	6,572.05	112.82	59.253		
11,400.00	7,730.00	8,204.38	8,095.40	97.14	32.13	96.45	-6,072.80	1,208.81	6,598.15	6,484.99	113.16	58.309		
11,500.00	7,730.00	8,202.48	8,093.49	97.06	32.12	96.42	-6,072.89	1,208.74	6,511.80	6,398.29	113.51	57.368		
11,600.00	7,730.00	8,200.55	8,091.57	96.98	32.12	96.38	-6,072.97	1,208.67	6,425.86	6,311.98	113.87	56.430		
11,700.00	7,730.00	8,198.61	8,089.64	96.93	32.11	96.35	-6,073.06	1,208.60	6,340.32	6,226.07	114.25	55.494		
11,800.00	7,730.00	8,196.65	8,087.68	96.90	32.11	96.32	-6,073.15	1,208.52	6,255.21	6,140.57	114.64	54.562		
11,900.00	7,730.00	8,194.68	8,085.71	96.88	32.10	96.28	-6,073.24	1,208.45	6,170.55	6,055.50	115.05	53.633		
12,000.00	7,730.00	8,192.69	8,083.73	96.88	32.10	96.25	-6,073.33	1,208.37	6,086.35	5,970.87	115.47	52.708		
12,100.00	7,730.00	8,190.68	8,081.72	96.90	32.09	96.21	-6,073.42	1,208.29	6,002.63	5,886.72	115.91	51.786		
12,200.00	7,730.00	8,188.65	8,079.70	96.94	32.09	96.18	-6,073.51	1,208.21	5,919.42	5,803.05	116.37	50.869		
12,300.00	7,730.00	8,186.61	8,077.66	97.00	32.08	96.14	-6,073.61	1,208.13	5,836.73	5,719.89	116.84	49.956		
12,400.00	7,730.00	8,184.55	8,075.60	97.08	32.07	96.11	-6,073.70	1,208.05	5,754.59	5,637.27	117.33	49.047		
12,500.00	7,730.00	8,182.47	8,073.52	97.18	32.07	96.07	-6,073.80	1,207.97	5,673.03	5,555.19	117.83	48.144		
12,600.00	7,730.00	8,180.37	8,071.42	97.31	32.06	96.03	-6,073.89	1,207.88	5,592.06	5,473.69	118.36	47.246		
12,700.00	7,730.00	8,178.25	8,069.31	97.46	32.06	96.00	-6,073.99	1,207.79	5,511.71	5,392.80	118.91	46.354		
12,800.00	7,730.00	8,156.00	8,047.11	97.64	32.00	95.61	-6,075.06	1,206.80	5,432.09	5,312.72	119.37	45.506		
12,900.00	7,730.00	8,156.00	8,047.11	97.85	32.00	95.61	-6,075.06	1,206.80	5,353.06	5,233.09	119.97	44.622		
13,000.00	7,730.00	8,156.00	8,047.11	98.09	32.00	95.61	-6,075.06	1,206.80	5,274.74	5,154.16	120.58	43.744		
13,100.00	7,730.00	8,156.00	8,047.11	98.35	32.00	95.61	-6,075.06	1,206.80	5,197.16	5,075.94	121.22	42.874		
13,200.00	7,730.00	8,156.00	8,047.11	98.65	32.00	95.61	-6,075.06	1,206.80	5,120.36	4,998.48	121.88	42.012		
13,300.00	7,730.00	8,156.00	8,047.11	98.98	32.00	95.61	-6,075.06	1,206.80	5,044.38	4,921.81	122.56	41.158		
13,400.00	7,730.00	8,156.00	8,047.11	99.34	32.00	95.61	-6,075.06	1,206.80	4,969.24	4,845.97	123.27	40.313		
13,500.00	7,730.00	8,156.00	8,047.11	99.74	32.00	95.61	-6,075.06	1,206.80	4,894.99	4,771.00	124.00	39.477		
13,600.00	7,730.00	8,156.00	8,047.11	100.17	32.00	95.61	-6,075.06	1,206.80	4,821.68	4,696.93	124.75	38.651		
13,700.00	7,730.00	8,156.00	8,047.11	100.65	32.00	95.61	-6,075.06	1,206.80	4,749.34	4,623.81	125.52	37.836		
13,800.00	7,730.00	8,156.00	8,047.11	101.16	32.00	95.61	-6,075.06	1,206.80	4,678.01	4,551.69	126.33	37.031		
13,900.00	7,730.00	8,148.57	8,039.70	101.71	31.98	95.48	-6,075.43	1,206.45	4,607.75	4,480.64	127.11	36.250		
14,000.00	7,730.00	8,144.83	8,035.97	102.30	31.97	95.42	-6,075.61	1,206.27	4,538.60	4,410.66	127.94	35.475		
14,100.00	7,730.00	8,141.05	8,032.20	102.93	31.96	95.35	-6,075.80	1,206.09	4,470.61	4,341.82	128.79	34.712		
14,200.00	7,730.00	8,137.24	8,028.39	103.60	31.95	95.29	-6,075.99	1,205.91	4,403.84	4,274.18	129.67	33.963		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,300.00	7,730.00	8,133.39	8,024.55	104.32	31.94	95.22	-6,076.18	1,205.72	4,338.34	4,207.78	130.56	33.228		
14,400.00	7,730.00	8,129.50	8,020.67	105.07	31.93	95.15	-6,076.38	1,205.54	4,274.18	4,142.70	131.48	32.508		
14,500.00	7,730.00	8,125.57	8,016.75	105.86	31.92	95.09	-6,076.58	1,205.35	4,211.41	4,078.98	132.42	31.803		
14,600.00	7,730.00	8,121.60	8,012.79	106.70	31.91	95.02	-6,076.78	1,205.15	4,150.09	4,016.70	133.38	31.114		
14,700.00	7,730.00	8,117.59	8,008.80	107.57	31.90	94.95	-6,076.99	1,204.96	4,090.29	3,955.93	134.36	30.442		
14,800.00	7,730.00	8,113.54	8,004.76	108.48	31.89	94.88	-6,077.20	1,204.76	4,032.08	3,896.72	135.36	29.787		
14,900.00	7,730.00	8,109.45	8,000.67	109.43	31.88	94.81	-6,077.41	1,204.56	3,975.53	3,839.16	136.37	29.152		
15,000.00	7,730.00	8,105.32	7,996.55	110.42	31.87	94.74	-6,077.63	1,204.36	3,920.71	3,783.31	137.40	28.535		
15,100.00	7,730.00	8,101.14	7,992.39	111.43	31.86	94.66	-6,077.85	1,204.15	3,867.69	3,729.26	138.44	27.938		
15,200.00	7,730.00	8,096.92	7,988.18	112.49	31.84	94.59	-6,078.07	1,203.95	3,816.56	3,677.07	139.48	27.362		
15,300.00	7,730.00	8,092.65	7,983.92	113.57	31.83	94.52	-6,078.29	1,203.74	3,767.37	3,626.84	140.53	26.808		
15,400.00	7,730.00	8,088.34	7,979.62	114.68	31.82	94.44	-6,078.52	1,203.52	3,720.22	3,578.63	141.59	26.275		
15,500.00	7,730.00	8,083.99	7,975.28	115.82	31.81	94.37	-6,078.76	1,203.30	3,675.18	3,532.54	142.64	25.766		
15,600.00	7,730.00	8,079.59	7,970.89	116.99	31.80	94.29	-6,078.99	1,203.08	3,632.32	3,488.64	143.68	25.281		
15,700.00	7,730.00	8,075.14	7,966.45	118.19	31.79	94.21	-6,079.24	1,202.86	3,591.74	3,447.02	144.71	24.820		
15,800.00	7,730.00	8,070.64	7,961.97	119.41	31.78	94.13	-6,079.48	1,202.64	3,553.50	3,407.77	145.73	24.384		
15,900.00	7,730.00	8,066.10	7,957.44	120.65	31.76	94.06	-6,079.73	1,202.41	3,517.68	3,370.95	146.73	23.974		
16,000.00	7,730.00	8,069.36	7,960.69	121.91	31.77	94.11	-6,079.54	1,202.58	3,484.35	3,336.60	147.75	23.582		
16,100.00	7,730.00	8,007.87	7,899.35	123.20	31.61	93.05	-6,082.64	1,199.75	3,453.56	3,305.24	148.31	23.285		
16,200.00	7,730.00	7,969.13	7,860.66	124.50	31.51	92.37	-6,084.19	1,198.37	3,425.34	3,276.37	148.98	22.993		
16,300.00	7,730.00	7,956.79	7,848.33	125.82	31.48	92.16	-6,084.62	1,198.00	3,399.81	3,250.03	149.78	22.698		
16,400.00	7,730.00	7,946.76	7,838.31	127.16	31.45	91.99	-6,084.96	1,197.71	3,377.04	3,226.48	150.56	22.430		
16,500.00	7,730.00	7,937.57	7,829.13	128.52	31.42	91.83	-6,085.25	1,197.46	3,357.08	3,205.79	151.29	22.189		
16,600.00	7,730.00	7,929.11	7,820.68	129.89	31.40	91.68	-6,085.51	1,197.25	3,339.99	3,188.02	151.98	21.977		
16,700.00	7,730.00	7,921.31	7,812.88	131.27	31.38	91.54	-6,085.73	1,197.06	3,325.81	3,173.21	152.60	21.794		
16,800.00	7,730.00	7,914.09	7,805.67	132.67	31.36	91.42	-6,085.94	1,196.90	3,314.59	3,161.42	153.17	21.640		
16,900.00	7,730.00	7,907.39	7,798.97	134.09	31.34	91.30	-6,086.12	1,196.75	3,306.34	3,152.67	153.67	21.516		
17,000.00	7,730.00	7,901.15	7,792.73	135.51	31.32	91.19	-6,086.28	1,196.63	3,301.10	3,147.00	154.10	21.421		
17,100.00	7,730.00	7,895.32	7,786.91	136.95	31.31	91.09	-6,086.43	1,196.51	3,298.88	3,144.42	154.47	21.356		
17,123.35	7,730.00	7,894.02	7,785.61	137.28	31.30	91.07	-6,086.46	1,196.49	3,298.80	3,144.26	154.54	21.346 CC, ES		
17,200.00	7,730.00	7,889.88	7,781.47	138.40	31.29	91.00	-6,086.56	1,196.41	3,299.69	3,144.93	154.76	21.321		
17,300.00	7,730.00	7,884.78	7,776.37	139.85	31.28	90.91	-6,086.68	1,196.32	3,303.52	3,148.55	154.98	21.316 SF		
17,400.00	7,730.00	7,879.99	7,771.58	141.32	31.27	90.83	-6,086.79	1,196.24	3,310.37	3,155.25	155.12	21.341		
17,500.00	7,730.00	7,875.48	7,767.07	142.80	31.25	90.75	-6,086.90	1,196.17	3,320.21	3,165.02	155.19	21.395		
17,600.00	7,730.00	7,872.00	7,763.60	144.28	31.24	90.69	-6,086.97	1,196.12	3,333.02	3,177.83	155.19	21.478		
17,700.00	7,730.00	7,872.00	7,763.60	145.78	31.24	90.69	-6,086.97	1,196.12	3,348.77	3,193.63	155.14	21.586		
17,800.00	7,730.00	7,872.00	7,763.60	147.28	31.24	90.69	-6,086.97	1,196.12	3,367.41	3,212.40	155.02	21.723		
17,900.00	7,730.00	7,872.00	7,763.60	148.79	31.24	90.69	-6,086.97	1,196.12	3,388.91	3,234.08	154.83	21.888		
18,000.00	7,730.00	7,872.00	7,763.60	150.31	31.24	90.69	-6,086.97	1,196.12	3,413.20	3,258.63	154.57	22.082		
18,100.00	7,730.00	7,872.00	7,763.60	151.83	31.24	90.69	-6,086.97	1,196.12	3,440.23	3,285.97	154.25	22.303		
18,200.00	7,730.00	7,872.00	7,763.60	153.37	31.24	90.69	-6,086.97	1,196.12	3,469.93	3,316.05	153.87	22.550		
18,300.00	7,730.00	7,861.51	7,753.11	154.90	31.22	90.51	-6,087.20	1,195.95	3,502.21	3,348.84	153.37	22.835		
18,400.00	7,730.00	7,859.98	7,751.58	156.45	31.21	90.48	-6,087.23	1,195.92	3,537.04	3,384.16	152.88	23.136		
18,500.00	7,730.00	7,858.42	7,750.03	158.00	31.21	90.45	-6,087.27	1,195.90	3,574.33	3,421.99	152.34	23.463		
18,600.00	7,730.00	7,856.85	7,748.46	159.55	31.20	90.42	-6,087.31	1,195.87	3,614.00	3,462.23	151.76	23.813		
18,700.00	7,730.00	7,855.26	7,746.87	161.11	31.20	90.40	-6,087.34	1,195.84	3,655.97	3,504.82	151.15	24.187		
18,800.00	7,730.00	7,853.66	7,745.26	162.68	31.19	90.37	-6,087.38	1,195.81	3,700.17	3,549.67	150.51	24.585		
18,900.00	7,730.00	7,852.03	7,743.63	164.25	31.19	90.34	-6,087.42	1,195.78	3,746.52	3,596.68	149.84	25.004		
19,000.00	7,730.00	7,850.38	7,741.98	165.83	31.19	90.31	-6,087.45	1,195.75	3,794.94	3,645.80	149.14	25.445		
19,100.00	7,730.00	7,848.71	7,740.31	167.41	31.18	90.28	-6,087.49	1,195.72	3,845.35	3,696.92	148.43	25.907		
19,200.00	7,730.00	7,847.01	7,738.62	168.99	31.18	90.25	-6,087.53	1,195.69	3,897.67	3,749.96	147.70	26.389		
19,300.00	7,730.00	7,845.30	7,736.91	170.58	31.17	90.22	-6,087.57	1,195.65	3,951.82	3,804.86	146.96	26.890		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		92-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.00	7,730.00	7,843.56	7,735.17	172.17	31.17	90.19	-6,087.62	1,195.62	4,007.74	3,861.53	146.22	27.410	
19,430.54	7,730.00	7,843.03	7,734.64	172.66	31.17	90.18	-6,087.63	1,195.61	4,025.16	3,879.17	145.99	27.572	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	162.48	-5,380.48	1,698.30	5,642.14					
100.00	100.00	110.19	110.19	0.13	0.21	162.48	-5,380.27	1,698.23	5,641.95	5,641.61	0.34	N/A		
177.50	177.50	172.47	172.47	0.41	0.42	162.48	-5,380.14	1,698.36	5,641.84	5,641.00	0.84	6,743.445		
200.00	200.00	185.00	185.00	0.49	0.47	162.48	-5,380.13	1,698.42	5,641.85	5,640.89	0.96	5,868.432		
300.00	300.00	227.85	227.85	0.85	0.62	162.48	-5,380.25	1,698.91	5,642.51	5,641.04	1.47	3,835.299		
400.00	400.00	274.00	273.98	1.21	0.78	162.47	-5,380.77	1,700.04	5,644.24	5,642.25	1.99	2,833.642		
500.00	500.00	307.90	307.85	1.57	0.90	162.46	-5,381.38	1,701.32	5,647.02	5,644.54	2.47	2,284.082		
600.00	599.98	365.00	364.84	1.92	1.11	97.01	-5,382.84	1,704.42	5,651.14	5,648.11	3.03	1,865.252		
700.00	699.84	365.00	364.84	2.28	1.11	96.90	-5,382.84	1,704.42	5,656.73	5,653.35	3.38	1,671.312		
800.00	799.45	422.48	422.13	2.64	1.32	96.77	-5,384.98	1,708.50	5,663.71	5,659.76	3.96	1,431.645		
900.00	898.70	456.00	455.51	3.02	1.45	96.62	-5,386.62	1,711.19	5,672.32	5,667.87	4.45	1,273.988		
1,000.00	997.47	500.91	500.15	3.41	1.62	96.46	-5,389.11	1,715.44	5,682.38	5,677.37	5.01	1,133.191		
1,100.00	1,095.62	549.00	547.82	3.84	1.81	96.28	-5,392.01	1,721.05	5,693.86	5,688.25	5.61	1,014.713		
1,200.00	1,193.06	579.89	578.37	4.29	1.94	96.06	-5,394.06	1,725.11	5,706.74	5,700.56	6.18	923.692		
1,300.00	1,289.64	640.00	637.70	4.78	2.19	95.86	-5,398.70	1,733.61	5,721.21	5,714.31	6.90	829.743		
1,400.00	1,385.27	640.00	637.70	5.32	2.19	95.55	-5,398.70	1,733.61	5,736.90	5,729.48	7.41	773.976		
1,500.00	1,479.82	691.55	688.43	5.90	2.42	95.31	-5,403.33	1,741.49	5,754.03	5,745.84	8.19	702.804		
1,600.00	1,573.17	732.00	728.14	6.53	2.60	95.03	-5,407.37	1,748.05	5,772.56	5,763.60	8.96	644.000		
1,700.00	1,665.21	762.50	758.01	7.23	2.75	94.71	-5,410.65	1,753.27	5,792.48	5,782.73	9.76	593.725		
1,800.00	1,755.84	795.09	789.84	7.98	2.91	94.37	-5,414.40	1,759.18	5,813.80	5,803.19	10.61	547.876		
1,900.00	1,844.94	825.00	818.97	8.80	3.05	94.00	-5,418.06	1,764.91	5,836.50	5,824.99	11.51	507.048		
2,000.00	1,932.39	865.06	857.87	9.68	3.26	93.64	-5,423.25	1,772.97	5,860.50	5,847.98	12.52	467.923		
2,100.00	2,018.11	919.00	910.05	10.63	3.54	93.33	-5,430.71	1,784.38	5,885.81	5,872.15	13.66	430.739		
2,200.00	2,101.97	949.52	939.50	11.65	3.70	92.90	-5,435.11	1,791.07	5,912.18	5,897.41	14.76	400.526		
2,300.00	2,183.88	1,013.00	1,000.65	12.74	4.05	92.61	-5,444.46	1,805.31	5,939.53	5,923.45	16.08	369.266		
2,400.00	2,263.74	1,056.28	1,042.28	13.90	4.30	92.22	-5,451.03	1,815.18	5,967.80	5,950.42	17.37	343.529		
2,431.61	2,288.54	1,071.52	1,056.93	14.29	4.39	92.10	-5,453.40	1,818.65	5,976.93	5,959.13	17.80	335.774		
2,500.00	2,341.97	1,106.00	1,090.05	15.13	4.58	92.26	-5,458.86	1,826.51	5,997.02	5,978.27	18.75	319.853		
2,600.00	2,420.08	1,157.74	1,139.72	16.37	4.88	92.51	-5,467.32	1,838.27	6,027.06	6,006.91	20.15	299.097		
2,700.00	2,498.20	1,208.75	1,188.67	17.63	5.18	92.76	-5,475.92	1,849.78	6,057.87	6,036.32	21.56	281.036		
2,800.00	2,576.32	1,369.02	1,342.78	18.89	6.11	93.53	-5,503.07	1,884.41	6,089.04	6,065.47	23.58	258.275		
2,900.00	2,654.43	1,431.08	1,402.70	20.17	6.47	93.84	-5,513.25	1,896.94	6,119.76	6,094.71	25.05	244.312		
3,000.00	2,732.55	1,490.00	1,459.56	21.45	6.81	94.13	-5,523.50	1,908.50	6,151.45	6,124.94	26.50	232.100		
3,100.00	2,810.67	1,490.00	1,459.56	22.74	6.81	94.13	-5,523.50	1,908.50	6,184.02	6,156.39	27.62	223.885		
3,200.00	2,888.78	1,541.32	1,509.02	24.03	7.10	94.38	-5,533.04	1,918.29	6,217.51	6,188.49	29.02	214.238		
3,300.00	2,966.90	1,584.00	1,550.10	25.33	7.35	94.60	-5,541.46	1,926.25	6,252.07	6,221.70	30.37	205.878		
3,400.00	3,045.02	1,615.09	1,579.99	26.63	7.53	94.75	-5,547.83	1,931.97	6,287.53	6,255.89	31.64	198.732		
3,500.00	3,123.13	1,658.44	1,621.62	27.94	7.78	94.97	-5,556.92	1,939.92	6,323.85	6,290.88	32.97	191.786		
3,600.00	3,201.25	1,720.38	1,681.06	29.24	8.15	95.28	-5,570.24	1,951.17	6,360.93	6,326.52	34.41	184.839		
3,700.00	3,279.37	3,700.00	2,089.08	30.55	18.57	97.41	-5,652.55	2,017.48	6,397.31	6,352.77	44.55	143.610		
3,800.00	3,357.49	2,203.87	2,149.53	31.86	10.80	97.72	-5,662.89	2,025.81	6,430.82	6,391.49	39.33	163.522		
3,900.00	3,435.60	2,240.00	2,184.76	33.18	10.99	97.91	-5,669.24	2,030.72	6,465.33	6,424.72	40.61	159.207		
4,000.00	3,513.72	4,000.00	2,275.26	34.49	20.23	98.37	-5,685.62	2,043.54	6,500.31	6,450.95	49.36	131.698		
4,100.00	3,591.84	2,385.12	2,326.19	35.81	11.75	98.63	-5,694.89	2,050.74	6,535.78	6,492.22	43.56	150.030		
4,200.00	3,669.95	2,428.72	2,368.65	37.12	11.97	98.85	-5,702.91	2,056.56	6,572.08	6,527.21	44.87	146.481		
4,300.00	3,748.07	2,544.45	2,481.42	38.44	12.58	99.43	-5,724.05	2,071.66	6,608.59	6,562.02	46.57	141.896		
4,400.00	3,826.19	2,601.21	2,536.70	39.76	12.88	99.71	-5,734.40	2,079.34	6,645.53	6,597.58	47.94	138.617		
4,500.00	3,904.30	2,643.86	2,578.17	41.08	13.11	99.91	-5,742.31	2,085.41	6,683.14	6,633.92	49.22	135.769		
4,600.00	3,982.42	2,682.05	2,615.21	42.40	13.32	100.09	-5,749.61	2,091.13	6,721.58	6,671.11	50.47	133.174		
4,700.00	4,060.54	2,836.65	2,764.85	43.72	14.19	100.80	-5,778.68	2,116.83	6,760.22	6,707.76	52.46	128.861		
4,800.00	4,138.66	2,897.00	2,823.34	45.05	14.52	101.07	-5,789.81	2,126.73	6,798.80	6,744.95	53.85	126.253		
4,900.00	4,216.77	2,959.03	2,883.47	46.37	14.87	101.35	-5,801.44	2,136.60	6,837.92	6,782.68	55.24	123.787		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	3,040.82	2,962.73	47.69	15.33	101.72	-5,816.84	2,149.59	6,877.42	6,820.67	56.75	121.190		
5,100.00	4,373.01	3,117.09	3,036.71	49.02	15.75	102.06	-5,831.15	2,161.45	6,917.16	6,858.94	58.22	118.819		
5,200.00	4,451.12	3,178.00	3,095.83	50.34	16.08	102.34	-5,842.72	2,170.39	6,957.35	6,897.78	59.57	116.787		
5,300.00	4,529.24	3,231.33	3,147.59	51.67	16.38	102.58	-5,853.02	2,178.12	6,998.10	6,937.23	60.87	114.963		
5,400.00	4,607.36	3,283.20	3,197.85	52.99	16.66	102.81	-5,863.22	2,185.87	7,039.45	6,977.30	62.16	113.255		
5,500.00	4,685.47	3,333.88	3,246.91	54.32	16.95	103.03	-5,873.39	2,193.48	7,081.40	7,017.98	63.42	111.650		
5,600.00	4,763.59	5,600.00	3,343.65	55.64	29.71	103.47	-5,893.48	2,208.63	7,123.66	7,048.56	75.09	94.865		
5,700.00	4,841.71	3,524.44	3,431.33	56.97	18.02	103.86	-5,911.35	2,222.83	7,165.87	7,099.30	66.56	107.655		
5,800.00	4,919.83	3,553.00	3,458.93	58.30	18.18	103.98	-5,917.03	2,227.49	7,208.64	7,140.97	67.67	106.534		
5,900.00	4,997.94	3,599.10	3,503.42	59.62	18.45	104.17	-5,926.46	2,235.07	7,252.08	7,183.20	68.88	105.279		
6,000.00	5,076.06	3,647.00	3,549.53	60.95	18.73	104.37	-5,936.74	2,242.93	7,296.39	7,226.28	70.11	104.074		
6,100.00	5,154.18	3,689.76	3,590.62	62.28	18.99	104.54	-5,946.11	2,250.16	7,341.30	7,270.01	71.29	102.976		
6,200.00	5,232.29	5,549.53	5,419.26	63.61	26.81	112.46	-6,134.47	2,426.73	7,384.98	7,303.12	81.86	90.215		
6,300.00	5,310.41	5,623.04	5,492.74	64.93	26.96	112.80	-6,132.54	2,425.82	7,411.36	7,328.25	83.12	89.168		
6,400.00	5,388.53	5,690.02	5,559.69	66.26	27.11	113.12	-6,130.85	2,424.79	7,438.26	7,353.91	84.35	88.187		
6,500.00	5,466.64	5,787.97	5,657.60	67.59	27.32	113.58	-6,128.35	2,423.19	7,465.59	7,379.94	85.64	87.173		
6,600.00	5,544.76	5,861.86	5,731.45	68.92	27.48	113.93	-6,126.34	2,422.11	7,493.18	7,406.31	86.87	86.258		
6,700.00	5,622.88	5,953.36	5,822.91	70.25	27.68	114.35	-6,123.88	2,420.80	7,521.24	7,433.10	88.13	85.339		
6,800.00	5,701.00	6,053.53	5,923.03	71.58	27.90	114.81	-6,120.86	2,419.39	7,549.43	7,460.02	89.41	84.436		
6,900.00	5,779.11	6,152.95	6,022.38	72.91	28.12	115.27	-6,117.62	2,418.06	7,577.85	7,487.18	90.68	83.570		
7,000.00	5,857.23	6,262.16	6,131.52	74.23	28.37	115.76	-6,113.70	2,416.78	7,606.41	7,514.45	91.96	82.714		
7,100.00	5,935.35	6,330.25	6,199.55	75.56	28.53	116.07	-6,111.14	2,416.03	7,635.22	7,542.09	93.13	81.980		
7,200.00	6,013.46	6,400.85	6,270.10	76.89	28.69	116.38	-6,108.63	2,415.40	7,664.57	7,570.26	94.31	81.272		
7,300.00	6,091.58	6,478.21	6,347.41	78.22	28.88	116.73	-6,105.93	2,415.04	7,694.32	7,598.83	95.49	80.575		
7,400.00	6,169.70	6,551.71	6,420.88	79.55	29.06	117.05	-6,103.46	2,415.15	7,724.49	7,627.82	96.66	79.911		
7,500.00	6,247.81	6,606.17	6,475.31	80.88	29.20	117.28	-6,101.77	2,415.45	7,755.17	7,657.39	97.78	79.315		
7,600.00	6,325.93	6,667.01	6,536.12	82.21	29.35	117.54	-6,100.09	2,415.91	7,786.46	7,687.56	98.90	78.731		
7,700.00	6,404.05	6,751.17	6,620.25	83.54	29.57	117.90	-6,097.80	2,416.45	7,818.15	7,718.07	100.08	78.118		
7,800.00	6,482.17	6,858.66	6,727.69	84.87	29.84	118.36	-6,094.48	2,416.20	7,850.01	7,748.69	101.31	77.485		
7,900.00	6,560.28	6,947.40	6,816.37	86.20	30.06	118.75	-6,091.36	2,415.21	7,882.00	7,779.53	102.47	76.921		
8,000.00	6,638.40	7,013.04	6,881.95	87.53	30.22	119.03	-6,089.03	2,414.11	7,914.40	7,810.85	103.55	76.431		
8,100.00	6,716.52	7,088.57	6,957.43	88.86	30.40	119.36	-6,086.41	2,412.68	7,947.23	7,842.59	104.65	75.943		
8,200.00	6,794.63	7,156.59	7,025.39	90.20	30.57	119.65	-6,084.09	2,411.50	7,980.47	7,874.75	105.72	75.490		
8,300.00	6,872.75	7,223.33	7,092.09	91.53	30.74	119.94	-6,081.93	2,410.29	8,014.19	7,907.42	106.77	75.059		
8,400.00	6,950.87	7,320.27	7,188.98	92.86	30.98	120.34	-6,078.79	2,408.91	8,048.20	7,940.29	107.91	74.584		
8,500.00	7,028.98	7,377.63	7,246.30	94.19	31.13	120.59	-6,076.99	2,408.16	8,082.59	7,973.67	108.92	74.204		
8,600.00	7,107.10	7,439.80	7,308.43	95.52	31.29	120.84	-6,075.13	2,407.29	8,117.46	8,007.52	109.94	73.833		
8,647.91	7,144.53	7,469.49	7,338.11	96.16	31.37	120.97	-6,074.28	2,406.86	8,134.34	8,023.91	110.43	73.662		
8,650.00	7,146.16	7,470.79	7,339.41	96.18	31.37	120.71	-6,074.24	2,406.84	8,135.07	8,024.62	110.45	73.654		
8,700.00	7,185.66	7,502.10	7,370.70	96.84	31.45	114.36	-6,073.38	2,406.36	8,150.62	8,039.66	110.97	73.452		
8,750.00	7,225.78	7,533.94	7,402.52	97.47	31.53	107.65	-6,072.52	2,405.85	8,162.18	8,050.68	111.50	73.204		
8,800.00	7,266.21	7,565.87	7,434.44	98.08	31.62	100.79	-6,071.69	2,405.29	8,169.67	8,057.62	112.04	72.915		
8,850.00	7,306.63	7,597.25	7,465.81	98.64	31.70	94.01	-6,070.90	2,404.71	8,173.04	8,060.45	112.59	72.590		
8,900.00	7,346.75	7,627.27	7,495.82	99.17	31.78	87.54	-6,070.18	2,404.19	8,172.30	8,059.16	113.13	72.235		
8,950.00	7,386.25	7,656.86	7,525.39	99.64	31.85	81.59	-6,069.51	2,403.72	8,167.44	8,053.77	113.67	71.853		
9,000.00	7,424.84	7,696.82	7,565.34	100.06	31.96	76.34	-6,068.68	2,403.19	8,158.50	8,044.28	114.23	71.424		
9,050.00	7,462.22	7,840.53	7,708.99	100.42	32.37	72.31	-6,065.53	2,405.02	8,145.25	8,030.12	115.14	70.743		
9,100.00	7,498.11	7,921.28	7,789.64	100.74	32.61	68.76	-6,063.53	2,408.42	8,127.69	8,011.86	115.83	70.169		
9,150.00	7,532.24	7,980.68	7,848.97	100.99	32.80	65.88	-6,061.81	2,410.88	8,106.20	7,989.78	116.42	69.627		
9,200.00	7,564.34	8,011.67	7,879.92	101.19	32.89	63.57	-6,060.85	2,412.04	8,081.05	7,964.16	116.88	69.138		
9,250.00	7,594.17	8,044.44	7,912.66	101.34	32.99	61.99	-6,059.78	2,413.15	8,052.43	7,935.11	117.32	68.636		
9,300.00	7,621.50	8,074.01	7,942.20	101.45	33.07	61.11	-6,058.78	2,414.04	8,020.57	7,902.85	117.72	68.134		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	8,092.16	7,960.33	101.50	33.13	60.88	-6,058.16	2,414.55	7,985.72	7,867.68	118.04	67.651		
9,400.00	7,667.87	8,110.27	7,978.42	101.51	33.18	61.45	-6,057.54	2,415.01	7,948.13	7,829.79	118.34	67.163		
9,450.00	7,686.55	8,125.53	7,993.67	101.48	33.22	62.92	-6,057.01	2,415.38	7,908.07	7,789.47	118.60	66.679		
9,500.00	7,702.04	8,137.85	8,005.98	101.42	33.26	65.53	-6,056.58	2,415.65	7,865.84	7,747.02	118.82	66.199		
9,550.00	7,714.20	8,147.16	8,015.28	101.33	33.29	69.63	-6,056.26	2,415.85	7,821.72	7,702.72	119.01	65.725		
9,600.00	7,722.96	8,153.40	8,021.52	101.20	33.30	75.82	-6,056.04	2,415.98	7,776.06	7,656.90	119.16	65.258		
9,650.00	7,728.24	8,156.55	8,024.66	101.06	33.31	84.98	-6,055.93	2,416.04	7,729.17	7,609.89	119.28	64.799		
9,699.97	7,730.00	8,156.58	8,024.69	100.90	33.31	98.20	-6,055.93	2,416.04	7,681.43	7,562.06	119.37	64.349		
9,800.00	7,730.00	8,153.54	8,021.65	100.56	33.31	98.12	-6,056.04	2,415.98	7,585.26	7,465.73	119.53	63.459		
9,900.00	7,730.00	8,150.50	8,018.62	100.24	33.30	98.04	-6,056.14	2,415.92	7,489.22	7,369.52	119.69	62.570		
10,000.00	7,730.00	8,147.47	8,015.59	99.93	33.29	97.96	-6,056.25	2,415.86	7,393.28	7,273.42	119.86	61.682		
10,100.00	7,730.00	8,144.44	8,012.57	99.64	33.28	97.88	-6,056.36	2,415.79	7,297.45	7,177.41	120.04	60.794		
10,200.00	7,730.00	8,141.42	8,009.55	99.36	33.27	97.79	-6,056.46	2,415.73	7,201.73	7,081.52	120.21	59.907		
10,300.00	7,730.00	8,138.41	8,006.54	99.09	33.26	97.71	-6,056.57	2,415.66	7,106.13	6,985.73	120.40	59.021		
10,400.00	7,730.00	8,135.40	8,003.53	98.84	33.25	97.63	-6,056.67	2,415.60	7,010.65	6,890.06	120.59	58.135		
10,500.00	7,730.00	8,132.39	8,000.53	98.61	33.24	97.55	-6,056.77	2,415.53	6,915.30	6,794.50	120.79	57.250		
10,600.00	7,730.00	8,129.40	7,997.53	98.39	33.23	97.47	-6,056.88	2,415.46	6,820.07	6,699.08	121.00	56.365		
10,700.00	7,730.00	8,126.40	7,994.54	98.18	33.23	97.39	-6,056.98	2,415.40	6,724.99	6,603.78	121.21	55.482		
10,800.00	7,730.00	8,123.42	7,991.56	97.99	33.22	97.30	-6,057.09	2,415.33	6,630.04	6,508.61	121.43	54.600		
10,900.00	7,730.00	8,120.43	7,988.58	97.81	33.21	97.22	-6,057.19	2,415.26	6,535.25	6,413.59	121.66	53.718		
11,000.00	7,730.00	8,117.46	7,985.60	97.64	33.20	97.14	-6,057.29	2,415.19	6,440.61	6,318.72	121.89	52.838		
11,100.00	7,730.00	8,114.49	7,982.64	97.50	33.19	97.06	-6,057.39	2,415.11	6,346.14	6,224.00	122.14	51.959		
11,200.00	7,730.00	8,111.52	7,979.67	97.36	33.18	96.98	-6,057.50	2,415.04	6,251.84	6,129.45	122.39	51.081		
11,300.00	7,730.00	8,108.56	7,976.71	97.24	33.17	96.90	-6,057.60	2,414.97	6,157.71	6,035.06	122.65	50.205		
11,400.00	7,730.00	8,105.61	7,973.76	97.14	33.17	96.82	-6,057.70	2,414.90	6,063.77	5,940.85	122.92	49.330		
11,500.00	7,730.00	8,102.66	7,970.82	97.06	33.16	96.74	-6,057.80	2,414.82	5,970.03	5,846.82	123.20	48.457		
11,600.00	7,730.00	8,099.71	7,967.87	96.98	33.15	96.66	-6,057.90	2,414.74	5,876.49	5,752.99	123.49	47.585		
11,700.00	7,730.00	8,096.77	7,964.94	96.93	33.14	96.58	-6,058.00	2,414.67	5,783.16	5,659.36	123.80	46.715		
11,800.00	7,730.00	8,093.84	7,962.01	96.90	33.13	96.50	-6,058.10	2,414.59	5,690.06	5,565.95	124.11	45.847		
11,900.00	7,730.00	8,090.91	7,959.08	96.88	33.12	96.42	-6,058.20	2,414.51	5,597.20	5,472.76	124.43	44.981		
12,000.00	7,730.00	8,087.99	7,956.16	96.88	33.11	96.34	-6,058.30	2,414.43	5,504.58	5,379.81	124.77	44.117		
12,100.00	7,730.00	8,085.07	7,953.25	96.90	33.11	96.26	-6,058.40	2,414.35	5,412.22	5,287.10	125.12	43.256		
12,200.00	7,730.00	8,082.16	7,950.34	96.94	33.10	96.18	-6,058.50	2,414.27	5,320.14	5,194.66	125.48	42.397		
12,300.00	7,730.00	8,079.25	7,947.43	97.00	33.09	96.10	-6,058.60	2,414.19	5,228.35	5,102.49	125.86	41.541		
12,400.00	7,730.00	8,076.35	7,944.53	97.08	33.08	96.02	-6,058.70	2,414.11	5,136.86	5,010.61	126.25	40.687		
12,500.00	7,730.00	8,073.45	7,941.64	97.18	33.07	95.94	-6,058.80	2,414.03	5,045.70	4,919.04	126.66	39.837		
12,600.00	7,730.00	8,070.56	7,938.75	97.31	33.06	95.86	-6,058.90	2,413.94	4,954.87	4,827.79	127.08	38.990		
12,700.00	7,730.00	8,067.67	7,935.87	97.46	33.05	95.79	-6,059.00	2,413.86	4,864.40	4,736.88	127.52	38.146		
12,800.00	7,730.00	8,065.24	7,933.44	97.64	33.05	95.72	-6,059.08	2,413.79	4,774.31	4,646.33	127.98	37.305		
12,900.00	7,730.00	8,062.02	7,930.22	97.85	33.04	95.63	-6,059.19	2,413.69	4,684.62	4,556.17	128.45	36.470		
13,000.00	7,730.00	8,058.82	7,927.03	98.09	33.03	95.54	-6,059.30	2,413.60	4,595.35	4,466.41	128.94	35.639		
13,100.00	7,730.00	8,055.65	7,923.86	98.35	33.02	95.46	-6,059.40	2,413.50	4,506.53	4,377.08	129.45	34.812		
13,200.00	7,730.00	8,052.50	7,920.71	98.65	33.01	95.37	-6,059.51	2,413.40	4,418.19	4,288.20	129.99	33.990		
13,300.00	7,730.00	8,049.38	7,917.59	98.98	33.00	95.29	-6,059.62	2,413.30	4,330.35	4,199.81	130.54	33.173		
13,400.00	7,730.00	8,046.28	7,914.50	99.34	32.99	95.20	-6,059.72	2,413.21	4,243.05	4,111.93	131.11	32.362		
13,500.00	7,730.00	8,043.21	7,911.42	99.74	32.98	95.12	-6,059.82	2,413.11	4,156.31	4,024.60	131.71	31.556		
13,600.00	7,730.00	8,040.15	7,908.38	100.17	32.97	95.03	-6,059.92	2,413.01	4,070.19	3,937.85	132.33	30.757		
13,700.00	7,730.00	8,037.13	7,905.35	100.65	32.96	94.95	-6,060.02	2,412.91	3,984.70	3,851.72	132.98	29.965		
13,800.00	7,730.00	8,034.12	7,902.35	101.16	32.95	94.87	-6,060.12	2,412.81	3,899.91	3,766.26	133.65	29.180		
13,900.00	7,730.00	8,031.14	7,899.37	101.71	32.95	94.79	-6,060.22	2,412.71	3,815.85	3,681.50	134.35	28.403		
14,000.00	7,730.00	8,028.18	7,896.41	102.30	32.94	94.71	-6,060.31	2,412.61	3,732.57	3,597.50	135.07	27.634		
14,100.00	7,730.00	8,025.24	7,893.48	102.93	32.93	94.63	-6,060.41	2,412.51	3,650.13	3,514.31	135.83	26.874		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 92-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	8,022.33	7,890.57	103.60	32.92	94.55	-6,060.50	2,412.41	3,568.59	3,431.98	136.61	26.123		
14,300.00	7,730.00	8,019.43	7,887.68	104.32	32.91	94.47	-6,060.60	2,412.31	3,488.00	3,350.59	137.41	25.383		
14,400.00	7,730.00	8,016.56	7,884.81	105.07	32.90	94.39	-6,060.69	2,412.21	3,408.44	3,270.19	138.25	24.654		
14,500.00	7,730.00	8,013.71	7,881.96	105.86	32.89	94.31	-6,060.78	2,412.11	3,329.98	3,190.86	139.12	23.937		
14,600.00	7,730.00	8,010.88	7,879.13	106.70	32.89	94.23	-6,060.87	2,412.01	3,252.70	3,112.69	140.01	23.232		
14,700.00	7,730.00	8,008.07	7,876.33	107.57	32.88	94.16	-6,060.96	2,411.91	3,176.68	3,035.75	140.93	22.541		
14,800.00	7,730.00	8,005.28	7,873.54	108.48	32.87	94.08	-6,061.05	2,411.81	3,102.03	2,960.15	141.88	21.864		
14,900.00	7,730.00	8,002.51	7,870.78	109.43	32.86	94.00	-6,061.14	2,411.71	3,028.83	2,885.98	142.84	21.204		
15,000.00	7,730.00	7,999.77	7,868.03	110.42	32.85	93.93	-6,061.22	2,411.60	2,957.20	2,813.36	143.84	20.560		
15,100.00	7,730.00	7,997.04	7,865.31	111.43	32.84	93.85	-6,061.31	2,411.50	2,887.25	2,742.40	144.85	19.933		
15,200.00	7,730.00	7,994.33	7,862.60	112.49	32.84	93.78	-6,061.39	2,411.40	2,819.11	2,673.24	145.87	19.326		
15,300.00	7,730.00	7,991.64	7,859.92	113.57	32.83	93.71	-6,061.48	2,411.30	2,752.91	2,606.01	146.90	18.740		
15,400.00	7,730.00	7,988.97	7,857.25	114.68	32.82	93.63	-6,061.56	2,411.20	2,688.80	2,540.87	147.94	18.175		
15,500.00	7,730.00	7,986.32	7,854.60	115.82	32.81	93.56	-6,061.64	2,411.10	2,626.94	2,477.97	148.97	17.634		
15,600.00	7,730.00	7,983.69	7,851.98	116.99	32.80	93.49	-6,061.72	2,410.99	2,567.47	2,417.48	149.99	17.118		
15,700.00	7,730.00	7,981.08	7,849.37	118.19	32.80	93.42	-6,061.80	2,410.89	2,510.58	2,359.59	150.98	16.628		
15,800.00	7,730.00	7,978.48	7,846.78	119.41	32.79	93.34	-6,061.88	2,410.79	2,456.44	2,304.49	151.95	16.166		
15,900.00	7,730.00	7,975.91	7,844.20	120.65	32.78	93.27	-6,061.96	2,410.69	2,405.23	2,252.37	152.86	15.735		
16,000.00	7,730.00	7,974.45	7,842.75	121.91	32.78	93.23	-6,062.00	2,410.63	2,357.15	2,203.43	153.73	15.333		
16,100.00	7,730.00	7,971.46	7,839.76	123.20	32.77	93.15	-6,062.09	2,410.51	2,312.40	2,157.90	154.50	14.967		
16,200.00	7,730.00	7,968.50	7,836.81	124.50	32.76	93.07	-6,062.18	2,410.39	2,271.17	2,115.99	155.19	14.635		
16,300.00	7,730.00	7,965.58	7,833.89	125.82	32.75	92.99	-6,062.27	2,410.27	2,233.66	2,077.90	155.76	14.340		
16,400.00	7,730.00	7,962.70	7,831.01	127.16	32.74	92.91	-6,062.35	2,410.15	2,200.05	2,043.84	156.21	14.084		
16,500.00	7,730.00	7,959.85	7,828.16	128.52	32.73	92.83	-6,062.44	2,410.04	2,170.52	2,014.01	156.52	13.868		
16,600.00	7,730.00	7,957.03	7,825.35	129.89	32.72	92.76	-6,062.52	2,409.92	2,145.26	1,988.59	156.67	13.693		
16,700.00	7,730.00	7,954.25	7,822.57	131.27	32.72	92.68	-6,062.60	2,409.81	2,124.40	1,967.74	156.66	13.561		
16,800.00	7,730.00	7,951.50	7,819.83	132.67	32.71	92.60	-6,062.68	2,409.69	2,108.07	1,951.60	156.47	13.473		
16,900.00	7,730.00	7,948.79	7,817.12	134.09	32.70	92.53	-6,062.76	2,409.58	2,096.39	1,940.30	156.10	13.430 SF		
17,000.00	7,730.00	7,946.10	7,814.44	135.51	32.69	92.46	-6,062.84	2,409.47	2,089.44	1,933.90	155.54	13.433		
17,095.69	7,730.00	7,943.56	7,811.90	136.89	32.68	92.39	-6,062.91	2,409.36	2,087.25	1,932.41	154.84	13.480 CC, ES		
17,100.00	7,730.00	7,943.45	7,811.79	136.95	32.68	92.38	-6,062.91	2,409.36	2,087.25	1,932.45	154.81	13.483		
17,200.00	7,730.00	7,940.83	7,809.17	138.40	32.67	92.31	-6,062.99	2,409.25	2,089.85	1,935.95	153.90	13.580		
17,300.00	7,730.00	7,938.24	7,806.58	139.85	32.67	92.24	-6,063.06	2,409.14	2,097.22	1,944.39	152.82	13.723		
17,400.00	7,730.00	7,935.67	7,804.02	141.32	32.66	92.17	-6,063.13	2,409.03	2,109.30	1,957.70	151.60	13.914		
17,500.00	7,730.00	7,933.14	7,801.49	142.80	32.65	92.10	-6,063.20	2,408.93	2,126.02	1,975.77	150.25	14.150		
17,600.00	7,730.00	7,930.64	7,798.99	144.28	32.64	92.03	-6,063.27	2,408.82	2,147.27	1,998.48	148.78	14.432		
17,700.00	7,730.00	7,928.16	7,796.52	145.78	32.64	91.96	-6,063.34	2,408.72	2,172.91	2,025.68	147.23	14.759		
17,800.00	7,730.00	7,925.72	7,794.08	147.28	32.63	91.90	-6,063.41	2,408.61	2,202.79	2,057.19	145.61	15.128		
17,900.00	7,730.00	7,923.30	7,791.66	148.79	32.62	91.83	-6,063.47	2,408.51	2,236.75	2,092.81	143.94	15.540		
18,000.00	7,730.00	7,920.90	7,789.27	150.31	32.61	91.76	-6,063.54	2,408.41	2,274.60	2,132.36	142.24	15.991		
18,100.00	7,730.00	7,918.54	7,786.91	151.83	32.61	91.70	-6,063.60	2,408.31	2,316.14	2,175.61	140.53	16.481		
18,200.00	7,730.00	7,916.20	7,784.57	153.37	32.60	91.64	-6,063.67	2,408.21	2,361.19	2,222.36	138.84	17.007		
18,300.00	7,730.00	7,913.88	7,782.26	154.90	32.59	91.57	-6,063.73	2,408.11	2,409.55	2,272.39	137.16	17.567		
18,400.00	7,730.00	7,911.59	7,779.97	156.45	32.58	91.51	-6,063.79	2,408.01	2,461.02	2,325.50	135.52	18.159		
18,500.00	7,730.00	7,909.33	7,777.71	158.00	32.58	91.45	-6,063.85	2,407.91	2,515.42	2,381.49	133.93	18.782		
18,600.00	7,730.00	7,907.09	7,775.47	159.55	32.57	91.39	-6,063.91	2,407.81	2,572.54	2,440.15	132.39	19.432		
18,700.00	7,730.00	7,904.87	7,773.26	161.11	32.56	91.32	-6,063.96	2,407.72	2,632.23	2,501.32	130.91	20.108		
18,800.00	7,730.00	7,902.68	7,771.07	162.68	32.56	91.26	-6,064.02	2,407.62	2,694.31	2,564.82	129.49	20.807		
18,900.00	7,730.00	7,900.51	7,768.90	164.25	32.55	91.20	-6,064.08	2,407.53	2,758.61	2,630.47	128.14	21.529		
19,000.00	7,730.00	7,898.36	7,766.75	165.83	32.54	91.15	-6,064.13	2,407.44	2,824.98	2,698.13	126.85	22.270		
19,100.00	7,730.00	19,100.00	7,712.85	167.41	66.26	89.67	-6,065.40	2,405.85	2,893.29	2,732.33	160.95	17.976		
19,200.00	7,730.00	19,200.00	7,710.63	168.99	66.57	89.61	-6,065.44	2,405.81	2,963.35	2,803.16	160.19	18.498		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		92-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	19,300.00	7,708.42	170.58	66.88	89.55	-6,065.49	2,405.78	3,035.10	2,875.60	159.50	19.029	
19,400.00	7,730.00	19,400.00	7,706.20	172.17	67.19	89.48	-6,065.54	2,405.74	3,108.40	2,949.54	158.86	19.567	
19,430.54	7,730.00	19,430.54	7,705.52	172.66	67.28	89.47	-6,065.56	2,405.73	3,131.08	2,972.40	158.67	19.733	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	149.13	-5,442.25	3,252.66	6,340.22					
100.00	100.00	60.65	60.65	0.13	0.09	149.14	-5,442.41	3,252.57	6,340.29	6,340.07	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	149.15	-5,442.98	3,251.51	6,340.23	6,339.30	0.93	6,819.433		
210.65	210.65	188.21	188.20	0.53	0.52	149.15	-5,443.14	3,251.13	6,340.16	6,339.11	1.05	6,033.836		
300.00	300.00	224.80	224.79	0.85	0.65	149.16	-5,443.58	3,250.68	6,340.54	6,339.03	1.50	4,221.150		
400.00	400.00	255.00	254.98	1.21	0.76	149.16	-5,444.12	3,250.48	6,341.86	6,339.89	1.97	3,220.280		
500.00	500.00	301.55	301.52	1.57	0.93	149.17	-5,445.30	3,250.46	6,344.13	6,341.63	2.49	2,544.381		
600.00	599.98	349.00	348.93	1.92	1.10	83.77	-5,446.97	3,250.83	6,347.24	6,344.23	3.02	2,104.772		
700.00	699.84	386.36	386.25	2.28	1.23	83.72	-5,448.54	3,251.35	6,350.86	6,347.36	3.50	1,813.816		
800.00	799.45	441.00	440.82	2.64	1.43	83.68	-5,451.10	3,252.38	6,354.88	6,350.83	4.06	1,566.679		
900.00	898.70	480.93	480.69	3.02	1.57	83.64	-5,453.24	3,253.29	6,359.35	6,354.78	4.57	1,390.593		
1,000.00	997.47	536.00	535.62	3.41	1.77	83.63	-5,456.76	3,254.73	6,364.39	6,359.22	5.16	1,232.678		
1,100.00	1,095.62	536.00	535.62	3.84	1.77	83.51	-5,456.76	3,254.73	6,370.04	6,364.46	5.58	1,141.649		
1,200.00	1,193.06	587.67	587.11	4.29	1.97	83.50	-5,460.77	3,256.34	6,376.20	6,369.99	6.21	1,026.000		
1,300.00	1,289.64	623.00	622.27	4.78	2.10	83.44	-5,464.01	3,257.63	6,383.18	6,376.36	6.83	935.258		
1,400.00	1,385.27	662.79	661.83	5.32	2.26	83.40	-5,467.99	3,259.21	6,390.76	6,383.27	7.50	852.610		
1,500.00	1,479.82	711.00	709.72	5.90	2.44	83.39	-5,473.13	3,261.24	6,398.82	6,390.57	8.24	776.286		
1,600.00	1,573.17	742.25	740.73	6.53	2.57	83.32	-5,476.65	3,262.75	6,407.44	6,398.46	8.98	713.585		
1,700.00	1,665.21	798.00	795.98	7.23	2.79	83.34	-5,483.30	3,266.21	6,416.87	6,407.01	9.86	650.683		
1,800.00	1,755.84	798.00	795.98	7.98	2.79	83.14	-5,483.30	3,266.21	6,426.75	6,416.16	10.59	606.779		
1,900.00	1,844.94	843.73	841.21	8.80	2.98	83.11	-5,489.16	3,269.58	6,437.36	6,425.80	11.56	557.010		
2,000.00	1,932.39	885.00	881.96	9.68	3.16	83.07	-5,494.78	3,272.81	6,448.61	6,436.04	12.57	513.112		
2,100.00	2,018.11	885.00	881.96	10.63	3.16	82.83	-5,494.78	3,272.81	6,460.66	6,447.17	13.48	479.195		
2,200.00	2,101.97	935.07	931.31	11.65	3.37	82.81	-5,502.07	3,277.18	6,473.19	6,458.53	14.66	441.501		
2,300.00	2,183.88	973.00	968.58	12.74	3.54	82.73	-5,507.99	3,280.92	6,486.63	6,470.77	15.86	409.023		
2,400.00	2,263.74	1,010.86	1,005.75	13.90	3.71	82.65	-5,514.09	3,284.82	6,500.67	6,483.54	17.13	379.588		
2,431.61	2,288.54	1,032.39	1,026.88	14.29	3.81	82.68	-5,517.57	3,287.03	6,505.18	6,487.60	17.58	370.077		
2,500.00	2,341.97	1,060.00	1,053.97	15.13	3.93	82.83	-5,522.07	3,289.86	6,515.17	6,496.67	18.49	352.280		
2,600.00	2,420.08	1,114.25	1,107.17	16.37	4.18	83.12	-5,531.10	3,295.46	6,530.51	6,510.61	19.90	328.108		
2,700.00	2,498.20	1,216.68	1,207.55	17.63	4.66	83.68	-5,548.38	3,306.21	6,546.63	6,525.10	21.53	304.052		
2,800.00	2,576.32	1,368.03	1,356.22	18.89	5.37	84.50	-5,572.29	3,321.58	6,562.16	6,538.78	23.38	280.637		
2,900.00	2,654.43	1,420.00	1,407.26	20.17	5.61	84.78	-5,580.65	3,326.60	6,578.48	6,553.66	24.81	265.116		
3,000.00	2,732.55	1,464.69	1,451.12	21.45	5.82	85.02	-5,588.08	3,330.86	6,595.69	6,569.47	26.22	251.595		
3,100.00	2,810.67	1,508.00	1,493.61	22.74	6.03	85.25	-5,595.37	3,334.98	6,613.71	6,586.10	27.61	239.526		
3,200.00	2,888.78	1,558.84	1,543.44	24.03	6.28	85.53	-5,604.17	3,339.84	6,632.62	6,603.58	29.04	228.378		
3,300.00	2,966.90	1,595.00	1,578.85	25.33	6.45	85.72	-5,610.65	3,343.36	6,652.55	6,622.15	30.40	218.807		
3,400.00	3,045.02	1,647.25	1,629.95	26.63	6.71	86.01	-5,620.28	3,348.41	6,673.39	6,641.56	31.84	209.604		
3,500.00	3,123.13	1,701.36	1,682.83	27.94	6.98	86.30	-5,630.56	3,353.54	6,695.11	6,661.83	33.28	201.181		
3,600.00	3,201.25	1,779.14	1,758.80	29.24	7.37	86.72	-5,645.37	3,361.13	6,717.50	6,682.66	34.83	192.853		
3,700.00	3,279.37	2,141.42	2,114.05	30.55	9.13	88.63	-5,706.33	3,397.15	6,739.05	6,701.30	37.74	178.563		
3,800.00	3,357.49	2,186.25	2,158.17	31.86	9.34	88.86	-5,712.99	3,401.53	6,759.33	6,720.19	39.15	172.665		
3,900.00	3,435.60	2,231.74	2,202.91	33.18	9.56	89.10	-5,720.07	3,405.74	6,780.52	6,739.97	40.55	167.207		
4,000.00	3,513.72	2,278.09	2,248.46	34.49	9.78	89.34	-5,727.48	3,410.08	6,802.58	6,760.63	41.96	162.140		
4,100.00	3,591.84	2,326.85	2,296.33	35.81	10.01	89.59	-5,735.47	3,414.77	6,825.50	6,782.13	43.37	157.395		
4,200.00	3,669.95	2,400.00	2,406.74	37.12	19.06	90.17	-5,753.77	3,426.22	6,848.98	6,797.07	51.91	131.936		
4,300.00	3,748.07	2,524.79	2,490.69	38.44	10.97	90.60	-5,767.08	3,434.84	6,872.35	6,825.68	46.67	147.242		
4,400.00	3,826.19	2,555.00	2,520.36	39.76	11.11	90.75	-5,771.95	3,437.81	6,896.65	6,848.67	47.98	143.742		
4,500.00	3,904.30	2,584.33	2,549.12	41.08	11.26	90.90	-5,776.90	3,440.70	6,921.98	6,872.71	49.27	140.486		
4,600.00	3,982.42	2,608.22	2,572.52	42.40	11.38	91.02	-5,781.13	3,443.06	6,948.39	6,897.86	50.53	137.522		
4,700.00	4,060.54	2,643.00	2,606.51	43.72	11.55	91.20	-5,787.61	3,446.51	6,975.90	6,924.07	51.83	134.602		
4,800.00	4,138.66	4,800.00	2,764.13	45.05	22.29	92.02	-5,816.68	3,462.68	7,003.51	6,941.87	61.64	113.616		
4,900.00	4,216.77	2,881.41	2,839.85	46.37	12.74	92.40	-5,829.95	3,470.90	7,031.04	6,975.72	55.32	127.094		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	2,933.94	2,891.26	47.69	13.01	92.66	-5,839.09	3,476.71	7,059.28	7,002.57	56.71	124.487		
5,100.00	4,373.01	2,992.00	2,948.03	49.02	13.30	92.94	-5,849.43	3,483.13	7,088.25	7,030.14	58.12	121.966		
5,200.00	4,451.12	3,102.83	3,056.50	50.34	13.85	93.49	-5,869.44	3,493.81	7,117.67	7,057.86	59.81	119.010		
5,300.00	4,529.24	3,210.80	3,162.38	51.67	14.39	94.03	-5,888.39	3,503.23	7,146.92	7,085.45	61.47	116.258		
5,400.00	4,607.36	3,290.09	3,240.12	52.99	14.78	94.42	-5,902.20	3,510.55	7,176.63	7,113.65	62.98	113.946		
5,500.00	4,685.47	3,375.30	3,323.68	54.32	15.20	94.84	-5,916.88	3,518.46	7,206.64	7,142.12	64.52	111.699		
5,600.00	4,763.59	3,461.06	3,407.84	55.64	15.61	95.26	-5,931.91	3,525.12	7,237.11	7,171.06	66.05	109.573		
5,700.00	4,841.71	3,565.39	3,510.20	56.97	16.12	95.76	-5,949.42	3,535.13	7,267.65	7,199.97	67.68	107.377		
5,800.00	4,919.83	3,642.66	3,586.01	58.30	16.50	96.13	-5,962.27	3,542.82	7,298.57	7,229.40	69.16	105.525		
5,900.00	4,997.94	3,863.19	3,802.92	59.62	17.55	97.18	-5,996.98	3,562.17	7,328.88	7,257.46	71.43	102.605		
6,000.00	5,076.06	3,946.16	3,884.70	60.95	17.93	97.57	-6,009.42	3,568.62	7,359.08	7,286.16	72.92	100.915		
6,100.00	5,154.18	3,998.04	3,935.78	62.28	18.18	97.82	-6,017.17	3,573.28	7,389.79	7,315.54	74.25	99.528		
6,200.00	5,232.29	4,057.78	3,994.54	63.61	18.46	98.09	-6,026.27	3,579.05	7,421.18	7,345.57	75.61	98.150		
6,300.00	5,310.41	4,127.00	4,062.63	64.93	18.79	98.41	-6,036.76	3,585.79	7,452.93	7,375.91	77.02	96.765		
6,400.00	5,388.53	4,172.18	4,107.08	66.26	19.00	98.61	-6,043.78	3,589.88	7,485.33	7,407.05	78.28	95.618		
6,500.00	5,466.64	5,236.05	5,163.42	67.59	23.22	103.59	-6,147.62	3,638.09	7,512.20	7,427.82	84.38	89.025		
6,600.00	5,544.76	5,448.16	5,375.44	68.92	23.88	104.60	-6,153.30	3,638.66	7,534.48	7,448.21	86.27	87.338		
6,700.00	5,622.88	5,580.65	5,507.91	70.25	24.26	105.23	-6,155.60	3,637.11	7,556.62	7,468.79	87.83	86.035		
6,800.00	5,701.00	5,896.17	5,823.30	71.58	25.09	106.75	-6,155.57	3,628.94	7,578.09	7,488.20	89.89	84.302		
6,900.00	5,779.11	5,980.50	5,907.59	72.91	25.30	107.15	-6,154.08	3,626.82	7,598.42	7,507.16	91.26	83.266		
7,000.00	5,857.23	6,066.21	5,993.26	74.23	25.52	107.55	-6,152.48	3,624.83	7,619.14	7,526.53	92.61	82.268		
7,100.00	5,935.35	6,156.07	6,083.08	75.56	25.75	107.98	-6,150.65	3,622.99	7,640.23	7,546.25	93.98	81.298		
7,200.00	6,013.46	6,248.22	6,175.20	76.89	25.98	108.40	-6,148.60	3,621.40	7,661.65	7,566.31	95.34	80.361		
7,300.00	6,091.58	6,345.18	6,272.12	78.22	26.23	108.85	-6,146.23	3,619.83	7,683.35	7,586.64	96.71	79.447		
7,400.00	6,169.70	6,425.82	6,352.72	79.55	26.44	109.22	-6,144.09	3,618.57	7,705.35	7,607.32	98.03	78.605		
7,500.00	6,247.81	6,488.56	6,415.44	80.88	26.60	109.51	-6,142.50	3,617.78	7,727.89	7,628.61	99.28	77.836		
7,600.00	6,325.93	6,551.56	6,478.41	82.21	26.77	109.79	-6,141.03	3,617.21	7,751.03	7,650.49	100.53	77.098		
7,700.00	6,404.05	6,628.82	6,555.66	83.54	26.97	110.14	-6,139.33	3,616.85	7,774.70	7,672.88	101.82	76.356		
7,800.00	6,482.17	6,713.06	6,639.88	84.87	27.20	110.51	-6,137.42	3,616.98	7,798.75	7,695.62	103.12	75.624		
7,900.00	6,560.28	6,792.65	6,719.44	86.20	27.42	110.86	-6,135.57	3,617.53	7,823.16	7,718.75	104.41	74.928		
8,000.00	6,638.40	6,868.98	6,795.75	87.53	27.64	111.19	-6,133.82	3,618.17	7,847.99	7,742.32	105.68	74.264		
8,100.00	6,716.52	6,945.30	6,872.05	88.86	27.85	111.52	-6,132.10	3,618.88	7,873.25	7,766.32	106.94	73.626		
8,200.00	6,794.63	7,021.48	6,948.20	90.20	28.07	111.85	-6,130.41	3,619.67	7,898.93	7,790.74	108.19	73.011		
8,300.00	6,872.75	7,097.72	7,024.42	91.53	28.28	112.18	-6,128.76	3,620.52	7,925.03	7,815.59	109.43	72.420		
8,400.00	6,950.87	7,173.17	7,099.84	92.86	28.50	112.50	-6,127.15	3,621.42	7,951.54	7,840.87	110.67	71.851		
8,500.00	7,028.98	7,248.71	7,175.36	94.19	28.72	112.82	-6,125.59	3,622.40	7,978.46	7,866.57	111.89	71.304		
8,600.00	7,107.10	7,326.68	7,253.31	95.52	28.95	113.15	-6,124.00	3,623.33	8,005.79	7,892.67	113.12	70.774		
8,647.91	7,144.53	7,364.29	7,290.92	96.16	29.05	113.31	-6,123.22	3,623.62	8,019.02	7,905.31	113.70	70.527		
8,650.00	7,146.16	7,365.93	7,292.55	96.18	29.06	113.06	-6,123.19	3,623.63	8,019.59	7,905.87	113.73	70.516		
8,700.00	7,185.66	7,405.41	7,332.03	96.84	29.17	106.98	-6,122.37	3,623.81	8,031.21	7,916.87	114.34	70.239		
8,750.00	7,225.78	7,445.25	7,371.85	97.47	29.29	100.49	-6,121.54	3,623.88	8,038.65	7,923.68	114.97	69.921		
8,800.00	7,266.21	7,482.03	7,408.63	98.08	29.39	93.77	-6,120.77	3,623.88	8,041.88	7,926.30	115.59	69.575		
8,850.00	7,306.63	7,518.80	7,445.39	98.64	29.50	87.08	-6,120.03	3,623.85	8,040.89	7,924.69	116.20	69.197		
8,900.00	7,346.75	7,555.18	7,481.76	99.17	29.60	80.66	-6,119.30	3,623.80	8,035.68	7,918.88	116.81	68.794		
8,950.00	7,386.25	7,590.90	7,517.48	99.64	29.71	74.71	-6,118.61	3,623.74	8,026.30	7,908.90	117.40	68.369		
9,000.00	7,424.84	7,625.92	7,552.49	100.06	29.81	69.37	-6,117.94	3,623.65	8,012.81	7,894.84	117.96	67.927		
9,050.00	7,462.22	7,660.69	7,587.26	100.42	29.91	64.71	-6,117.28	3,623.59	7,995.30	7,876.79	118.51	67.468		
9,100.00	7,498.11	7,694.07	7,620.63	100.74	30.01	60.73	-6,116.67	3,623.57	7,973.90	7,854.88	119.02	66.999		
9,150.00	7,532.24	7,725.78	7,652.34	100.99	30.10	57.42	-6,116.10	3,623.59	7,948.76	7,829.27	119.49	66.522		
9,200.00	7,564.34	7,755.60	7,682.14	101.19	30.19	54.75	-6,115.57	3,623.63	7,920.07	7,800.14	119.93	66.040		
9,250.00	7,594.17	7,783.27	7,709.81	101.34	30.27	52.68	-6,115.09	3,623.71	7,888.02	7,767.70	120.33	65.555		
9,300.00	7,621.50	7,809.46	7,736.00	101.45	30.34	51.19	-6,114.64	3,623.79	7,852.85	7,732.17	120.69	65.068		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,833.46	7,760.00	101.50	30.41	50.31	-6,114.23	3,623.87	7,814.81	7,693.80	121.01	64.582		
9,400.00	7,667.87	7,854.52	7,781.05	101.51	30.48	50.06	-6,113.87	3,623.94	7,774.17	7,652.88	121.28	64.099		
9,450.00	7,686.55	7,872.48	7,799.01	101.48	30.53	50.58	-6,113.56	3,624.00	7,731.22	7,609.70	121.52	63.621		
9,500.00	7,702.04	7,887.20	7,813.73	101.42	30.57	52.09	-6,113.31	3,624.05	7,686.29	7,564.57	121.71	63.150		
9,550.00	7,714.20	7,898.57	7,825.10	101.33	30.61	55.14	-6,113.11	3,624.09	7,639.69	7,517.82	121.87	62.687		
9,600.00	7,722.96	7,906.51	7,833.04	101.20	30.63	60.91	-6,112.98	3,624.12	7,591.78	7,469.79	121.99	62.232		
9,650.00	7,728.24	7,910.95	7,837.48	101.06	30.64	72.55	-6,112.90	3,624.14	7,542.90	7,420.83	122.08	61.788		
9,699.97	7,730.00	7,911.86	7,838.39	100.90	30.65	98.52	-6,112.89	3,624.14	7,493.46	7,371.33	122.13	61.356		
9,800.00	7,730.00	7,910.15	7,836.68	100.56	30.64	98.41	-6,112.92	3,624.13	7,394.13	7,271.92	122.21	60.505		
9,900.00	7,730.00	7,908.44	7,834.96	100.24	30.64	98.30	-6,112.95	3,624.13	7,294.85	7,172.56	122.29	59.653		
10,000.00	7,730.00	7,906.73	7,833.25	99.93	30.63	98.19	-6,112.98	3,624.12	7,195.59	7,073.22	122.37	58.801		
10,100.00	7,730.00	7,905.01	7,831.54	99.64	30.63	98.08	-6,113.00	3,624.12	7,096.35	6,973.89	122.46	57.950		
10,200.00	7,730.00	7,903.30	7,829.83	99.36	30.62	97.97	-6,113.03	3,624.11	6,997.13	6,874.58	122.55	57.098		
10,300.00	7,730.00	7,901.59	7,828.12	99.09	30.62	97.86	-6,113.06	3,624.10	6,897.93	6,775.30	122.64	56.246		
10,400.00	7,730.00	7,899.88	7,826.40	98.84	30.61	97.75	-6,113.09	3,624.10	6,798.76	6,676.03	122.73	55.395		
10,500.00	7,730.00	7,898.17	7,824.69	98.61	30.61	97.63	-6,113.12	3,624.09	6,699.61	6,576.78	122.83	54.543		
10,600.00	7,730.00	7,896.45	7,822.98	98.39	30.60	97.52	-6,113.15	3,624.09	6,600.49	6,477.55	122.93	53.691		
10,700.00	7,730.00	7,894.74	7,821.27	98.18	30.60	97.41	-6,113.18	3,624.08	6,501.39	6,378.35	123.04	52.840		
10,800.00	7,730.00	7,893.03	7,819.56	97.99	30.59	97.30	-6,113.21	3,624.07	6,402.32	6,279.17	123.15	51.988		
10,900.00	7,730.00	7,891.32	7,817.84	97.81	30.59	97.19	-6,113.24	3,624.07	6,303.28	6,180.01	123.26	51.137		
11,000.00	7,730.00	7,889.60	7,816.13	97.64	30.58	97.08	-6,113.27	3,624.06	6,204.27	6,080.89	123.38	50.285		
11,100.00	7,730.00	7,887.89	7,814.42	97.50	30.58	96.97	-6,113.30	3,624.06	6,105.29	5,981.78	123.50	49.434		
11,200.00	7,730.00	7,886.18	7,812.71	97.36	30.57	96.86	-6,113.33	3,624.05	6,006.34	5,882.71	123.63	48.583		
11,300.00	7,730.00	7,884.47	7,810.99	97.24	30.57	96.75	-6,113.36	3,624.05	5,907.43	5,783.67	123.76	47.732		
11,400.00	7,730.00	7,882.75	7,809.28	97.14	30.56	96.64	-6,113.39	3,624.04	5,808.56	5,684.66	123.90	46.882		
11,500.00	7,730.00	7,881.04	7,807.57	97.06	30.55	96.52	-6,113.41	3,624.03	5,709.72	5,585.68	124.04	46.031		
11,600.00	7,730.00	7,879.33	7,805.86	96.98	30.55	96.41	-6,113.44	3,624.03	5,610.93	5,486.74	124.19	45.181		
11,700.00	7,730.00	7,877.62	7,804.14	96.93	30.54	96.30	-6,113.47	3,624.02	5,512.18	5,387.84	124.34	44.331		
11,800.00	7,730.00	7,875.90	7,802.43	96.90	30.54	96.19	-6,113.50	3,624.02	5,413.47	5,288.97	124.50	43.482		
11,900.00	7,730.00	7,874.19	7,800.72	96.88	30.53	96.08	-6,113.53	3,624.01	5,314.81	5,190.15	124.67	42.633		
12,000.00	7,730.00	7,872.48	7,799.01	96.88	30.53	95.97	-6,113.56	3,624.00	5,216.20	5,091.37	124.84	41.784		
12,100.00	7,730.00	7,870.76	7,797.29	96.90	30.52	95.86	-6,113.59	3,624.00	5,117.65	4,992.63	125.02	40.935		
12,200.00	7,730.00	7,869.05	7,795.58	96.94	30.52	95.74	-6,113.62	3,623.99	5,019.15	4,893.95	125.20	40.088		
12,300.00	7,730.00	7,867.34	7,793.87	97.00	30.51	95.63	-6,113.65	3,623.99	4,920.71	4,795.31	125.40	39.240		
12,400.00	7,730.00	7,865.63	7,792.16	97.08	30.51	95.52	-6,113.68	3,623.98	4,822.34	4,696.73	125.60	38.393		
12,500.00	7,730.00	7,863.91	7,790.44	97.18	30.50	95.41	-6,113.71	3,623.98	4,724.03	4,598.22	125.82	37.547		
12,600.00	7,730.00	7,862.20	7,788.73	97.31	30.50	95.30	-6,113.74	3,623.97	4,625.80	4,499.76	126.04	36.702		
12,700.00	7,730.00	7,860.49	7,787.02	97.46	30.49	95.19	-6,113.77	3,623.96	4,527.64	4,401.37	126.27	35.857		
12,800.00	7,730.00	7,858.77	7,785.31	97.64	30.49	95.07	-6,113.80	3,623.96	4,429.56	4,303.05	126.51	35.013		
12,900.00	7,730.00	7,857.06	7,783.59	97.85	30.48	94.96	-6,113.83	3,623.95	4,331.57	4,204.81	126.77	34.169		
13,000.00	7,730.00	7,855.35	7,781.88	98.09	30.48	94.85	-6,113.85	3,623.95	4,233.68	4,106.64	127.03	33.327		
13,100.00	7,730.00	7,853.63	7,780.17	98.35	30.47	94.74	-6,113.88	3,623.94	4,135.88	4,008.57	127.31	32.486		
13,200.00	7,730.00	7,851.92	7,778.45	98.65	30.47	94.63	-6,113.91	3,623.93	4,038.19	3,910.59	127.61	31.645		
13,300.00	7,730.00	7,850.21	7,776.74	98.98	30.46	94.51	-6,113.94	3,623.93	3,940.62	3,812.70	127.92	30.806		
13,400.00	7,730.00	7,848.49	7,775.03	99.34	30.46	94.40	-6,113.97	3,623.92	3,843.17	3,714.93	128.24	29.968		
13,500.00	7,730.00	7,846.78	7,773.31	99.74	30.45	94.29	-6,114.00	3,623.92	3,745.86	3,617.27	128.58	29.132		
13,600.00	7,730.00	7,845.07	7,771.60	100.17	30.45	94.18	-6,114.03	3,623.91	3,648.68	3,519.74	128.94	28.297		
13,700.00	7,730.00	7,843.35	7,769.89	100.65	30.44	94.07	-6,114.06	3,623.91	3,551.67	3,422.35	129.32	27.464		
13,800.00	7,730.00	7,841.64	7,768.17	101.16	30.44	93.95	-6,114.09	3,623.90	3,454.82	3,325.10	129.72	26.632		
13,900.00	7,730.00	7,839.93	7,766.46	101.71	30.43	93.84	-6,114.12	3,623.89	3,358.16	3,228.01	130.15	25.802		
14,000.00	7,730.00	7,838.21	7,764.75	102.30	30.43	93.73	-6,114.15	3,623.89	3,261.70	3,131.10	130.60	24.975		
14,100.00	7,730.00	7,836.50	7,763.04	102.93	30.42	93.62	-6,114.18	3,623.88	3,165.46	3,034.38	131.08	24.150		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 73-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,834.79	7,761.32	103.60	30.42	93.50	-6,114.21	3,623.88	3,069.46	2,937.87	131.58	23.327		
14,300.00	7,730.00	7,833.07	7,759.61	104.32	30.41	93.39	-6,114.24	3,623.87	2,973.71	2,841.60	132.12	22.508		
14,400.00	7,730.00	7,831.36	7,757.89	105.07	30.41	93.28	-6,114.27	3,623.87	2,878.26	2,745.57	132.69	21.691		
14,500.00	7,730.00	7,829.64	7,756.18	105.86	30.40	93.17	-6,114.29	3,623.86	2,783.13	2,649.83	133.30	20.878		
14,600.00	7,730.00	7,827.93	7,754.47	106.70	30.40	93.05	-6,114.32	3,623.85	2,688.35	2,554.40	133.95	20.069		
14,700.00	7,730.00	7,826.22	7,752.75	107.57	30.39	92.94	-6,114.35	3,623.85	2,593.96	2,459.31	134.65	19.265		
14,800.00	7,730.00	7,824.50	7,751.04	108.48	30.39	92.83	-6,114.38	3,623.84	2,500.00	2,364.61	135.39	18.465		
14,900.00	7,730.00	7,822.79	7,749.33	109.43	30.38	92.72	-6,114.41	3,623.84	2,406.53	2,270.34	136.19	17.670		
15,000.00	7,730.00	7,821.08	7,747.61	110.42	30.38	92.60	-6,114.44	3,623.83	2,313.61	2,176.56	137.05	16.882		
15,100.00	7,730.00	7,819.36	7,745.90	111.43	30.37	92.49	-6,114.47	3,623.82	2,221.29	2,083.33	137.97	16.100		
15,200.00	7,730.00	7,817.65	7,744.19	112.49	30.37	92.38	-6,114.50	3,623.82	2,129.68	1,990.72	138.96	15.326		
15,300.00	7,730.00	7,815.93	7,742.47	113.57	30.36	92.27	-6,114.53	3,623.81	2,038.84	1,898.82	140.02	14.561		
15,400.00	7,730.00	7,814.22	7,740.76	114.68	30.36	92.15	-6,114.56	3,623.81	1,948.91	1,807.74	141.17	13.805		
15,500.00	7,730.00	7,812.51	7,739.05	115.82	30.35	92.04	-6,114.59	3,623.80	1,860.00	1,717.59	142.41	13.061		
15,600.00	7,730.00	7,811.03	7,737.57	116.99	30.35	91.94	-6,114.62	3,623.80	1,772.27	1,628.53	143.74	12.330		
15,700.00	7,730.00	7,809.31	7,735.85	118.19	30.34	91.83	-6,114.64	3,623.80	1,685.91	1,540.74	145.16	11.614		
15,800.00	7,730.00	7,807.58	7,734.12	119.41	30.34	91.72	-6,114.67	3,623.79	1,601.13	1,454.44	146.69	10.915		
15,900.00	7,730.00	7,805.86	7,732.40	120.65	30.33	91.60	-6,114.70	3,623.78	1,518.20	1,369.88	148.32	10.236		
16,000.00	7,730.00	7,804.13	7,730.67	121.91	30.33	91.49	-6,114.73	3,623.78	1,437.45	1,287.41	150.04	9.580		
16,100.00	7,730.00	7,802.39	7,728.93	123.20	30.32	91.38	-6,114.76	3,623.77	1,359.26	1,207.41	151.84	8.952		
16,200.00	7,730.00	7,800.66	7,727.20	124.50	30.32	91.26	-6,114.79	3,623.76	1,284.09	1,130.39	153.70	8.355		
16,300.00	7,730.00	7,798.91	7,725.45	125.82	30.31	91.15	-6,114.82	3,623.76	1,212.52	1,056.96	155.56	7.794		
16,400.00	7,730.00	7,797.17	7,723.71	127.16	30.31	91.03	-6,114.85	3,623.75	1,145.21	987.85	157.36	7.278		
16,500.00	7,730.00	7,795.42	7,721.96	128.52	30.30	90.92	-6,114.88	3,623.74	1,082.96	923.96	158.99	6.811		
16,600.00	7,730.00	7,793.67	7,720.21	129.89	30.30	90.80	-6,114.91	3,623.74	1,026.68	866.37	160.31	6.404		
16,700.00	7,730.00	7,791.91	7,718.45	131.27	30.29	90.69	-6,114.94	3,623.73	977.43	816.28	161.15	6.065		
16,800.00	7,730.00	7,790.15	7,716.69	132.67	30.29	90.57	-6,114.97	3,623.73	936.29	775.00	161.29	5.805		
16,900.00	7,730.00	7,788.38	7,714.92	134.09	30.28	90.46	-6,115.00	3,623.72	904.38	743.87	160.52	5.634		
17,000.00	7,730.00	7,786.61	7,713.16	135.51	30.28	90.34	-6,115.03	3,623.72	882.71	724.03	158.68	5.563 SF		
17,100.00	7,730.00	7,784.84	7,711.38	136.95	30.27	90.22	-6,115.06	3,623.71	872.03	716.31	155.72	5.600 ES		
17,143.74	7,730.00	7,784.06	7,710.61	137.58	30.27	90.17	-6,115.08	3,623.71	870.93	716.84	154.09	5.652 CC		
17,200.00	7,730.00	7,783.06	7,709.61	138.40	30.27	90.11	-6,115.09	3,623.70	872.74	721.03	151.72	5.752		
17,300.00	7,730.00	7,781.28	7,707.83	139.85	30.26	89.99	-6,115.12	3,623.70	884.83	737.92	146.91	6.023		
17,400.00	7,730.00	7,779.50	7,706.04	141.32	30.25	89.87	-6,115.15	3,623.69	907.83	766.20	141.63	6.410		
17,500.00	7,730.00	7,777.71	7,704.25	142.80	30.25	89.75	-6,115.19	3,623.69	940.96	804.71	136.25	6.906		
17,600.00	7,730.00	7,775.92	7,702.46	144.28	30.24	89.64	-6,115.22	3,623.68	983.17	852.11	131.06	7.501		
17,700.00	7,730.00	7,774.12	7,700.67	145.78	30.24	89.52	-6,115.25	3,623.68	1,033.37	907.05	126.32	8.181		
17,800.00	7,730.00	7,772.32	7,698.87	147.28	30.23	89.40	-6,115.28	3,623.67	1,090.44	968.30	122.14	8.928		
17,900.00	7,730.00	7,770.51	7,697.06	148.79	30.23	89.28	-6,115.31	3,623.67	1,153.37	1,034.79	118.58	9.726		
18,000.00	7,730.00	7,768.71	7,695.25	150.31	30.22	89.16	-6,115.34	3,623.66	1,221.26	1,105.63	115.62	10.562		
18,100.00	7,730.00	7,766.89	7,693.44	151.83	30.22	89.04	-6,115.37	3,623.66	1,293.31	1,180.09	113.22	11.423		
18,200.00	7,730.00	7,765.08	7,691.62	153.37	30.21	88.92	-6,115.40	3,623.66	1,368.89	1,257.58	111.30	12.299		
18,300.00	7,730.00	7,763.26	7,689.80	154.90	30.21	88.80	-6,115.44	3,623.65	1,447.42	1,337.62	109.80	13.182		
18,400.00	7,730.00	7,761.43	7,687.98	156.45	30.20	88.68	-6,115.47	3,623.65	1,528.47	1,419.83	108.64	14.069		
18,500.00	7,730.00	7,759.60	7,686.15	158.00	30.20	88.56	-6,115.50	3,623.64	1,611.64	1,503.87	107.77	14.955		
18,600.00	7,730.00	7,757.77	7,684.32	159.55	30.19	88.44	-6,115.53	3,623.64	1,696.63	1,589.51	107.12	15.839		
18,700.00	7,730.00	7,755.93	7,682.48	161.11	30.19	88.32	-6,115.56	3,623.64	1,783.17	1,676.52	106.65	16.719		
18,800.00	7,730.00	7,754.09	7,680.64	162.68	30.18	88.20	-6,115.60	3,623.63	1,871.06	1,764.72	106.33	17.596		
18,900.00	7,730.00	7,752.24	7,678.79	164.25	30.18	88.08	-6,115.63	3,623.63	1,960.10	1,853.97	106.13	18.469		
19,000.00	7,730.00	7,750.39	7,676.94	165.83	30.17	87.96	-6,115.66	3,623.62	2,050.15	1,944.14	106.02	19.338		
19,100.00	7,730.00	7,748.54	7,675.09	167.41	30.16	87.84	-6,115.69	3,623.62	2,141.09	2,035.11	105.98	20.203		
19,200.00	7,730.00	7,746.68	7,673.23	168.99	30.16	87.71	-6,115.73	3,623.62	2,232.80	2,126.80	106.00	21.065		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		73-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,744.82	7,671.37	170.58	30.15	87.59	-6,115.76	3,623.61	2,325.19	2,219.13	106.06	21.924	
19,400.00	7,730.00	7,742.95	7,669.50	172.17	30.15	87.47	-6,115.79	3,623.61	2,418.19	2,312.03	106.15	22.781	
19,430.54	7,730.00	7,742.38	7,668.93	172.66	30.15	87.43	-6,115.80	3,623.61	2,446.69	2,340.51	106.19	23.042	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	161.79	-5,370.28	1,766.92	5,653.50					
100.00	100.00	67.30	67.30	0.13	0.11	161.79	-5,370.41	1,766.87	5,653.62	5,653.38	0.24	N/A		
200.00	200.00	175.29	175.29	0.49	0.42	161.79	-5,370.87	1,766.73	5,653.99	5,653.08	0.92	6,160.523		
300.00	300.00	316.11	316.11	0.85	0.91	161.79	-5,370.63	1,766.62	5,653.80	5,652.04	1.76	3,205.828		
400.00	400.00	422.23	422.22	1.21	1.28	161.79	-5,369.96	1,766.62	5,653.21	5,650.72	2.49	2,271.507		
500.00	500.00	577.91	577.89	1.57	1.83	161.78	-5,368.27	1,767.23	5,652.42	5,649.03	3.40	1,664.760		
600.00	599.98	670.39	670.35	1.92	2.16	96.46	-5,366.37	1,767.95	5,650.92	5,646.85	4.08	1,385.921		
700.00	699.84	756.24	756.19	2.28	2.46	96.51	-5,364.94	1,768.66	5,650.18	5,645.44	4.74	1,192.746		
781.96	781.50	831.03	830.97	2.58	2.73	96.56	-5,363.80	1,769.30	5,649.99	5,644.69	5.30	1,065.743		
800.00	799.45	847.24	847.17	2.64	2.79	96.58	-5,363.56	1,769.45	5,650.00	5,644.57	5.42	1,041.518		
900.00	898.70	924.36	924.28	3.02	3.06	96.65	-5,362.48	1,770.31	5,650.45	5,644.37	6.08	929.843		
1,000.00	997.47	983.34	983.25	3.41	3.27	96.71	-5,362.00	1,771.15	5,651.94	5,645.25	6.68	845.719		
1,100.00	1,095.62	1,059.05	1,058.95	3.84	3.54	96.79	-5,361.78	1,772.46	5,654.47	5,647.10	7.37	766.901		
1,200.00	1,193.06	1,157.59	1,157.47	4.29	3.89	96.93	-5,361.65	1,774.38	5,657.70	5,649.52	8.18	692.026		
1,300.00	1,289.64	1,274.23	1,274.10	4.78	4.30	97.15	-5,361.47	1,775.79	5,661.20	5,652.12	9.08	623.444		
1,400.00	1,385.27	1,364.87	1,364.74	5.32	4.62	97.33	-5,361.37	1,776.17	5,665.08	5,655.15	9.93	570.459		
1,500.00	1,479.82	1,462.42	1,462.30	5.90	4.95	97.56	-5,361.51	1,776.21	5,669.69	5,658.84	10.84	522.805		
1,600.00	1,573.17	1,578.20	1,578.07	6.53	5.35	97.88	-5,361.40	1,776.08	5,674.71	5,662.84	11.87	477.933		
1,700.00	1,665.21	1,672.29	1,672.16	7.23	5.68	98.14	-5,361.06	1,775.94	5,680.20	5,667.32	12.89	440.742		
1,800.00	1,755.84	1,756.39	1,756.26	7.98	5.97	98.37	-5,360.87	1,775.64	5,686.54	5,672.61	13.92	408.408		
1,900.00	1,844.94	1,890.83	1,890.69	8.80	6.43	98.86	-5,360.58	1,774.21	5,693.64	5,678.45	15.19	374.755		
2,000.00	1,932.39	1,969.45	1,969.30	9.68	6.71	99.10	-5,360.07	1,772.96	5,701.12	5,684.78	16.33	349.052		
2,100.00	2,018.11	2,048.22	2,048.06	10.63	6.98	99.34	-5,359.75	1,771.65	5,709.76	5,692.22	17.54	325.570		
2,200.00	2,101.97	2,132.00	2,131.82	11.65	7.27	99.61	-5,359.51	1,769.97	5,719.50	5,700.67	18.82	303.828		
2,300.00	2,183.88	2,216.02	2,215.82	12.74	7.56	99.89	-5,359.23	1,768.24	5,730.33	5,710.15	20.18	283.986		
2,400.00	2,263.74	2,295.78	2,295.57	13.90	7.84	100.14	-5,358.94	1,766.59	5,742.34	5,720.76	21.58	266.069		
2,431.61	2,288.54	2,322.29	2,322.06	14.29	7.94	100.22	-5,358.84	1,766.03	5,746.39	5,724.35	22.04	260.689		
2,500.00	2,341.97	2,380.09	2,379.85	15.13	8.14	100.59	-5,358.60	1,764.76	5,755.42	5,732.37	23.05	249.661		
2,600.00	2,420.08	2,479.16	2,478.89	16.37	8.49	101.22	-5,358.05	1,762.13	5,769.04	5,744.45	24.59	234.598		
2,700.00	2,498.20	2,544.99	2,544.68	17.63	8.72	101.64	-5,357.62	1,760.04	5,783.19	5,757.17	26.02	222.280		
2,800.00	2,576.32	2,600.00	2,599.68	18.89	8.91	101.99	-5,357.38	1,758.67	5,798.27	5,770.86	27.41	211.549		
2,900.00	2,654.43	2,649.35	2,649.02	20.17	9.09	102.29	-5,357.34	1,757.66	5,814.34	5,785.57	28.78	202.037		
3,000.00	2,732.55	2,700.00	2,699.66	21.45	9.26	102.61	-5,357.55	1,756.72	5,831.46	5,801.31	30.15	193.406		
3,100.00	2,810.67	2,846.61	2,846.24	22.74	9.78	103.52	-5,357.79	1,754.45	5,849.20	5,817.33	31.87	183.530		
3,200.00	2,888.78	3,026.32	3,025.91	24.03	10.42	104.61	-5,354.49	1,752.65	5,865.72	5,832.02	33.71	174.022		
3,300.00	2,966.90	3,095.50	3,095.07	25.33	10.66	105.03	-5,352.84	1,751.93	5,882.67	5,847.53	35.14	167.396		
3,400.00	3,045.02	3,150.28	3,149.84	26.63	10.86	105.36	-5,351.70	1,751.14	5,900.44	5,863.92	36.52	161.565		
3,500.00	3,123.13	3,200.00	3,199.54	27.94	11.03	105.66	-5,350.88	1,750.30	5,919.14	5,881.26	37.87	156.288		
3,600.00	3,201.25	3,250.41	3,249.93	29.24	11.21	105.97	-5,350.31	1,749.16	5,938.81	5,899.59	39.22	151.423		
3,700.00	3,279.37	3,300.00	3,299.50	30.55	11.39	106.27	-5,350.05	1,747.63	5,959.50	5,918.94	40.55	146.949		
3,800.00	3,357.49	3,416.55	3,415.97	31.86	11.80	106.99	-5,349.37	1,743.31	5,980.76	5,938.63	42.13	141.970		
3,900.00	3,435.60	3,470.10	3,469.48	33.18	12.00	107.32	-5,349.02	1,741.27	6,002.54	5,959.08	43.46	138.116		
4,000.00	3,513.72	3,548.60	3,547.92	34.49	12.28	107.80	-5,348.59	1,738.36	6,025.06	5,980.18	44.88	134.259		
4,100.00	3,591.84	3,638.33	3,637.60	35.81	12.60	108.34	-5,347.89	1,735.49	6,048.02	6,001.69	46.33	130.553		
4,200.00	3,669.95	3,720.31	3,719.55	37.12	12.89	108.82	-5,347.11	1,733.52	6,071.46	6,023.72	47.74	127.179		
4,300.00	3,748.07	3,795.15	3,794.37	38.44	13.16	109.26	-5,346.38	1,731.96	6,095.47	6,046.35	49.12	124.101		
4,400.00	3,826.19	3,867.31	3,866.52	39.76	13.41	109.68	-5,345.71	1,731.17	6,120.09	6,069.62	50.47	121.255		
4,500.00	3,904.30	3,953.46	3,952.67	41.08	13.71	110.17	-5,344.93	1,731.71	6,145.27	6,093.40	51.87	118.468		
4,600.00	3,982.42	4,036.61	4,035.81	42.40	14.00	110.63	-5,344.01	1,732.07	6,170.81	6,117.56	53.25	115.878		
4,700.00	4,060.54	4,109.47	4,108.67	43.72	14.26	111.04	-5,343.26	1,731.91	6,196.92	6,142.34	54.58	113.528		
4,800.00	4,138.66	4,205.77	4,204.96	45.05	14.60	111.58	-5,342.15	1,731.30	6,223.47	6,167.47	56.00	111.137		
4,900.00	4,216.77	4,410.26	4,409.36	46.37	15.33	112.74	-5,337.60	1,727.54	6,249.90	6,192.10	57.80	108.128		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,472.77	4,471.83	47.69	15.56	113.08	-5,335.63	1,726.76	6,275.94	6,216.87	59.07	106.250		
5,100.00	4,373.01	4,564.17	4,563.19	49.02	15.88	113.58	-5,332.78	1,726.34	6,302.49	6,242.06	60.43	104.292		
5,200.00	4,451.12	4,732.09	4,730.97	50.34	16.48	114.49	-5,326.17	1,726.18	6,328.87	6,266.81	62.06	101.976		
5,300.00	4,529.24	4,821.45	4,820.23	51.67	16.80	114.97	-5,321.81	1,725.49	6,355.02	6,291.62	63.40	100.241		
5,400.00	4,607.36	4,878.59	4,877.30	52.99	17.00	115.28	-5,319.11	1,724.83	6,381.79	6,317.19	64.61	98.779		
5,500.00	4,685.47	4,932.93	4,931.58	54.32	17.19	115.57	-5,316.72	1,724.10	6,409.33	6,343.54	65.79	97.415		
5,600.00	4,763.59	4,985.50	4,984.11	55.64	17.38	115.86	-5,314.61	1,723.31	6,437.66	6,370.70	66.96	96.137		
5,700.00	4,841.71	5,000.00	4,998.59	56.97	17.43	115.93	-5,314.07	1,723.08	6,466.94	6,398.96	67.98	95.133		
5,800.00	4,919.83	5,051.56	5,050.12	58.30	17.62	116.21	-5,312.47	1,722.17	6,497.07	6,427.95	69.12	94.001		
5,900.00	4,997.94	5,100.00	5,098.54	59.62	17.79	116.47	-5,311.57	1,721.16	6,528.41	6,458.17	70.23	92.955		
6,000.00	5,076.06	5,123.97	5,122.50	60.95	17.88	116.60	-5,311.27	1,720.65	6,560.60	6,489.36	71.24	92.096		
6,100.00	5,154.18	5,190.44	5,188.96	62.28	18.12	116.95	-5,310.53	1,719.35	6,593.53	6,521.13	72.40	91.074		
6,200.00	5,232.29	5,255.89	5,254.40	63.61	18.35	117.29	-5,309.99	1,718.59	6,627.04	6,553.49	73.54	90.112		
6,300.00	5,310.41	5,334.28	5,332.78	64.93	18.62	117.69	-5,309.66	1,718.91	6,661.08	6,586.35	74.73	89.134		
6,400.00	5,388.53	5,428.31	5,426.82	66.26	18.94	118.16	-5,309.14	1,719.82	6,695.35	6,619.38	75.97	88.127		
6,500.00	5,466.64	5,508.25	5,506.75	67.59	19.22	118.55	-5,308.53	1,719.93	6,729.96	6,652.81	77.15	87.230		
6,600.00	5,544.76	5,614.80	5,613.29	68.92	19.60	119.09	-5,307.27	1,719.02	6,764.78	6,686.35	78.43	86.253		
6,700.00	5,622.88	5,661.46	5,659.94	70.25	19.77	119.33	-5,306.69	1,718.18	6,800.07	6,720.62	79.45	85.589		
6,800.00	5,701.00	5,731.98	5,730.43	71.58	20.02	119.69	-5,305.92	1,716.41	6,835.99	6,755.44	80.56	84.861		
6,900.00	5,779.11	5,824.22	5,822.64	72.91	20.35	120.15	-5,304.71	1,714.23	6,872.13	6,790.39	81.74	84.074		
7,000.00	5,857.23	5,882.55	5,880.94	74.23	20.56	120.44	-5,304.01	1,712.90	6,908.76	6,825.99	82.78	83.464		
7,100.00	5,935.35	5,978.89	5,977.26	75.56	20.91	120.92	-5,303.01	1,711.05	6,945.85	6,861.89	83.96	82.728		
7,200.00	6,013.46	6,176.48	6,174.82	76.89	21.61	121.86	-5,299.54	1,710.20	6,982.54	6,896.99	85.56	81.613		
7,300.00	6,091.58	6,242.01	6,240.32	78.22	21.84	122.17	-5,297.83	1,710.26	7,018.83	6,932.22	86.60	81.045		
7,400.00	6,169.70	6,300.00	6,298.30	79.55	22.05	122.44	-5,296.58	1,710.11	7,055.82	6,968.21	87.61	80.537		
7,500.00	6,247.81	6,424.37	6,422.62	80.88	22.49	123.02	-5,293.47	1,709.55	7,092.97	7,004.10	88.88	79.807		
7,600.00	6,325.93	6,494.61	6,492.85	82.21	22.74	123.34	-5,291.68	1,709.91	7,130.24	7,040.32	89.92	79.298		
7,700.00	6,404.05	6,543.62	6,541.84	83.54	22.91	123.56	-5,290.66	1,710.57	7,168.03	7,077.17	90.86	78.890		
7,800.00	6,482.17	6,600.00	6,598.21	84.87	23.11	123.81	-5,289.83	1,711.49	7,206.51	7,114.68	91.83	78.480		
7,900.00	6,560.28	6,726.09	6,724.24	86.20	23.55	124.35	-5,287.57	1,714.28	7,244.86	7,151.78	93.08	77.835		
8,000.00	6,638.40	6,763.04	6,761.18	87.53	23.68	124.51	-5,286.90	1,714.86	7,283.72	7,189.77	93.95	77.530		
8,100.00	6,716.52	6,800.00	6,798.14	88.86	23.80	124.67	-5,286.37	1,715.12	7,323.35	7,228.54	94.80	77.250		
8,200.00	6,794.63	6,864.34	6,862.47	90.20	24.03	124.95	-5,285.65	1,715.42	7,363.58	7,267.81	95.76	76.894		
8,300.00	6,872.75	6,974.85	6,972.97	91.53	24.42	125.43	-5,284.55	1,716.39	7,404.14	7,307.22	96.92	76.395		
8,400.00	6,950.87	7,067.71	7,065.82	92.86	24.74	125.82	-5,283.31	1,717.71	7,444.55	7,346.56	97.99	75.971		
8,500.00	7,028.98	7,144.27	7,142.36	94.19	25.01	126.14	-5,282.35	1,719.05	7,485.23	7,386.24	98.99	75.616		
8,600.00	7,107.10	7,212.63	7,210.71	95.52	25.25	126.42	-5,281.43	1,719.92	7,526.25	7,426.31	99.94	75.307		
8,647.91	7,144.53	7,237.34	7,235.41	96.16	25.33	126.52	-5,281.14	1,720.18	7,546.06	7,445.71	100.36	75.191		
8,650.00	7,146.16	7,238.42	7,236.49	96.18	25.34	126.25	-5,281.12	1,720.19	7,546.93	7,446.55	100.38	75.186		
8,700.00	7,185.66	7,264.43	7,262.50	96.84	25.43	119.62	-5,280.86	1,720.45	7,565.67	7,464.85	100.82	75.040		
8,750.00	7,225.78	7,300.00	7,298.07	97.47	25.55	112.72	-5,280.56	1,720.78	7,580.63	7,479.30	101.33	74.812		
8,800.00	7,266.21	7,326.76	7,324.83	98.08	25.65	105.68	-5,280.37	1,721.01	7,591.66	7,489.86	101.81	74.568		
8,850.00	7,306.63	7,367.70	7,365.77	98.64	25.79	98.81	-5,280.07	1,721.33	7,598.69	7,496.33	102.36	74.235		
8,900.00	7,346.75	7,408.24	7,406.30	99.17	25.93	92.30	-5,279.75	1,721.60	7,601.64	7,498.73	102.91	73.866		
8,950.00	7,386.25	7,445.27	7,443.33	99.64	26.06	86.33	-5,279.47	1,721.87	7,600.52	7,497.08	103.44	73.475		
9,000.00	7,424.84	7,481.96	7,480.01	100.06	26.19	81.04	-5,279.22	1,722.18	7,595.35	7,491.39	103.97	73.056		
9,050.00	7,462.22	7,518.49	7,516.54	100.42	26.32	76.50	-5,278.99	1,722.52	7,586.18	7,481.71	104.48	72.612		
9,100.00	7,498.11	7,554.51	7,552.56	100.74	26.44	72.73	-5,278.78	1,722.88	7,573.08	7,468.11	104.97	72.148		
9,150.00	7,532.24	7,588.78	7,586.83	100.99	26.56	69.72	-5,278.58	1,723.24	7,556.14	7,450.71	105.43	71.670		
9,200.00	7,564.34	7,600.00	7,598.05	101.19	26.60	67.29	-5,278.52	1,723.36	7,535.53	7,429.76	105.77	71.247		
9,250.00	7,594.17	7,629.63	7,627.67	101.34	26.70	65.67	-5,278.40	1,723.68	7,511.38	7,405.22	106.16	70.753		
9,300.00	7,621.50	7,645.64	7,643.69	101.45	26.76	64.64	-5,278.37	1,723.85	7,483.92	7,377.44	106.47	70.288		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error:	0.00 usft
Survey Program: 100-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,660.13	7,658.18	101.50	26.81	64.29	-5,278.36	1,724.00	7,453.31	7,346.56	106.75	69.817		
9,400.00	7,667.87	7,672.98	7,671.02	101.51	26.85	64.64	-5,278.38	1,724.14	7,419.78	7,312.78	107.00	69.342		
9,450.00	7,686.55	7,684.07	7,682.12	101.48	26.89	65.76	-5,278.40	1,724.25	7,383.56	7,276.34	107.22	68.863		
9,500.00	7,702.04	7,700.00	7,698.04	101.42	26.94	67.85	-5,278.45	1,724.41	7,344.89	7,237.45	107.44	68.363		
9,550.00	7,714.20	7,704.11	7,702.16	101.33	26.96	70.91	-5,278.47	1,724.45	7,304.04	7,196.46	107.58	67.892		
9,600.00	7,722.96	7,736.41	7,734.45	101.20	27.07	75.77	-5,278.55	1,724.80	7,261.29	7,153.45	107.84	67.333		
9,650.00	7,728.24	7,755.45	7,753.48	101.06	27.13	82.31	-5,278.56	1,725.04	7,216.94	7,108.92	108.02	66.809		
9,699.97	7,730.00	7,761.58	7,759.62	100.90	27.15	90.90	-5,278.56	1,725.12	7,171.37	7,063.24	108.13	66.320		
9,800.00	7,730.00	7,761.27	7,759.31	100.56	27.15	90.89	-5,278.56	1,725.12	7,079.23	6,970.94	108.28	65.376		
9,900.00	7,730.00	7,760.98	7,759.02	100.24	27.15	90.89	-5,278.56	1,725.12	6,987.33	6,878.89	108.44	64.435		
10,000.00	7,730.00	7,760.70	7,758.74	99.93	27.15	90.88	-5,278.56	1,725.11	6,895.65	6,787.05	108.60	63.494		
10,100.00	7,730.00	7,760.44	7,758.48	99.64	27.15	90.88	-5,278.56	1,725.11	6,804.21	6,695.44	108.77	62.555		
10,200.00	7,730.00	7,760.19	7,758.23	99.36	27.15	90.87	-5,278.56	1,725.11	6,713.01	6,604.06	108.95	61.617		
10,300.00	7,730.00	7,759.95	7,757.99	99.09	27.15	90.87	-5,278.56	1,725.10	6,622.07	6,512.94	109.13	60.680		
10,400.00	7,730.00	7,759.72	7,757.76	98.84	27.15	90.86	-5,278.56	1,725.10	6,531.39	6,422.07	109.32	59.745		
10,500.00	7,730.00	7,759.51	7,757.55	98.61	27.15	90.86	-5,278.56	1,725.10	6,440.99	6,331.47	109.52	58.812		
10,600.00	7,730.00	7,759.30	7,757.34	98.39	27.15	90.85	-5,278.56	1,725.09	6,350.87	6,241.15	109.72	57.881		
10,700.00	7,730.00	7,759.10	7,757.14	98.18	27.15	90.85	-5,278.56	1,725.09	6,261.06	6,151.12	109.94	56.951		
10,800.00	7,730.00	7,758.92	7,756.95	97.99	27.15	90.85	-5,278.56	1,725.09	6,171.56	6,061.40	110.16	56.024		
10,900.00	7,730.00	7,758.74	7,756.77	97.81	27.14	90.84	-5,278.56	1,725.09	6,082.38	5,971.99	110.39	55.098		
11,000.00	7,730.00	7,758.56	7,756.60	97.64	27.14	90.84	-5,278.56	1,725.08	5,993.55	5,882.92	110.63	54.176		
11,100.00	7,730.00	7,758.40	7,756.44	97.50	27.14	90.84	-5,278.56	1,725.08	5,905.08	5,794.20	110.88	53.255		
11,200.00	7,730.00	7,758.24	7,756.28	97.36	27.14	90.83	-5,278.56	1,725.08	5,816.98	5,705.83	111.14	52.338		
11,300.00	7,730.00	7,758.09	7,756.12	97.24	27.14	90.83	-5,278.56	1,725.08	5,729.26	5,617.85	111.41	51.423		
11,400.00	7,730.00	7,757.94	7,755.98	97.14	27.14	90.83	-5,278.56	1,725.07	5,641.96	5,530.27	111.70	50.512		
11,500.00	7,730.00	7,757.80	7,755.84	97.06	27.14	90.82	-5,278.56	1,725.07	5,555.09	5,443.10	111.99	49.604		
11,600.00	7,730.00	7,757.66	7,755.70	96.98	27.14	90.82	-5,278.56	1,725.07	5,468.66	5,356.37	112.30	48.699		
11,700.00	7,730.00	7,757.53	7,755.57	96.93	27.14	90.82	-5,278.56	1,725.07	5,382.71	5,270.10	112.61	47.798		
11,800.00	7,730.00	7,757.40	7,755.44	96.90	27.14	90.82	-5,278.56	1,725.07	5,297.25	5,184.30	112.94	46.902		
11,900.00	7,730.00	7,757.28	7,755.32	96.88	27.14	90.81	-5,278.56	1,725.07	5,212.30	5,099.01	113.29	46.009		
12,000.00	7,730.00	7,757.16	7,755.20	96.88	27.14	90.81	-5,278.56	1,725.06	5,127.90	5,014.25	113.65	45.122		
12,100.00	7,730.00	7,757.05	7,755.09	96.90	27.14	90.81	-5,278.56	1,725.06	5,044.07	4,930.05	114.02	44.239		
12,200.00	7,730.00	7,756.94	7,754.98	96.94	27.14	90.81	-5,278.56	1,725.06	4,960.84	4,846.43	114.41	43.362		
12,300.00	7,730.00	7,756.83	7,754.87	97.00	27.14	90.80	-5,278.56	1,725.06	4,878.23	4,763.42	114.81	42.490		
12,400.00	7,730.00	7,756.73	7,754.77	97.08	27.14	90.80	-5,278.56	1,725.06	4,796.29	4,681.06	115.23	41.624		
12,500.00	7,730.00	7,756.63	7,754.67	97.18	27.14	90.80	-5,278.56	1,725.06	4,715.05	4,599.39	115.66	40.765		
12,600.00	7,730.00	7,756.54	7,754.57	97.31	27.14	90.80	-5,278.56	1,725.06	4,634.54	4,518.42	116.12	39.913		
12,700.00	7,730.00	7,756.44	7,754.48	97.46	27.14	90.80	-5,278.56	1,725.06	4,554.80	4,438.22	116.59	39.068		
12,800.00	7,730.00	7,756.35	7,754.39	97.64	27.14	90.79	-5,278.56	1,725.05	4,475.88	4,358.80	117.08	38.231		
12,900.00	7,730.00	7,756.26	7,754.30	97.85	27.14	90.79	-5,278.56	1,725.05	4,397.81	4,280.23	117.58	37.402		
13,000.00	7,730.00	7,756.18	7,754.22	98.09	27.14	90.79	-5,278.56	1,725.05	4,320.65	4,202.54	118.11	36.582		
13,100.00	7,730.00	7,756.10	7,754.13	98.35	27.14	90.79	-5,278.56	1,725.05	4,244.44	4,125.79	118.65	35.772		
13,200.00	7,730.00	7,756.02	7,754.05	98.65	27.14	90.79	-5,278.56	1,725.05	4,169.24	4,050.02	119.22	34.971		
13,300.00	7,730.00	7,755.94	7,753.98	98.98	27.14	90.78	-5,278.56	1,725.05	4,095.10	3,975.30	119.80	34.182		
13,400.00	7,730.00	7,755.86	7,753.90	99.34	27.13	90.78	-5,278.56	1,725.05	4,022.08	3,901.67	120.41	33.404		
13,500.00	7,730.00	7,755.79	7,753.83	99.74	27.13	90.78	-5,278.56	1,725.05	3,950.24	3,829.20	121.03	32.638		
13,600.00	7,730.00	7,755.72	7,753.75	100.17	27.13	90.78	-5,278.56	1,725.05	3,879.64	3,757.97	121.68	31.885		
13,700.00	7,730.00	7,755.65	7,753.68	100.65	27.13	90.78	-5,278.56	1,725.04	3,810.37	3,688.03	122.34	31.146		
13,800.00	7,730.00	7,755.58	7,753.62	101.16	27.13	90.78	-5,278.56	1,725.04	3,742.48	3,619.46	123.02	30.422		
13,900.00	7,730.00	7,755.51	7,753.55	101.71	27.13	90.78	-5,278.56	1,725.04	3,676.06	3,552.34	123.72	29.713		
14,000.00	7,730.00	7,755.45	7,753.49	102.30	27.13	90.77	-5,278.56	1,725.04	3,611.19	3,486.75	124.44	29.020		
14,100.00	7,730.00	7,755.38	7,753.42	102.93	27.13	90.77	-5,278.56	1,725.04	3,547.95	3,422.78	125.17	28.345		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY													Offset Site Error: 0.00 usft	
Survey Program: 100-MWD OWSG													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,755.32	7,753.36	103.60	27.13	90.77	-5,278.56	1,725.04	3,486.44	3,360.52	125.92	27.689		
14,300.00	7,730.00	7,755.26	7,753.30	104.32	27.13	90.77	-5,278.56	1,725.04	3,426.73	3,300.06	126.67	27.052		
14,400.00	7,730.00	7,755.20	7,753.24	105.07	27.13	90.77	-5,278.56	1,725.04	3,368.94	3,241.50	127.44	26.435		
14,500.00	7,730.00	7,755.15	7,753.19	105.86	27.13	90.77	-5,278.56	1,725.04	3,313.16	3,184.94	128.22	25.840		
14,600.00	7,730.00	7,755.09	7,753.13	106.70	27.13	90.77	-5,278.56	1,725.04	3,259.50	3,130.50	129.00	25.268		
14,700.00	7,730.00	7,755.04	7,753.08	107.57	27.13	90.77	-5,278.56	1,725.04	3,208.05	3,078.27	129.78	24.719		
14,800.00	7,730.00	7,754.98	7,753.02	108.48	27.13	90.77	-5,278.56	1,725.04	3,158.93	3,028.37	130.56	24.196		
14,900.00	7,730.00	7,754.93	7,752.97	109.43	27.13	90.76	-5,278.56	1,725.04	3,112.25	2,980.93	131.33	23.699		
15,000.00	7,730.00	7,754.88	7,752.92	110.42	27.13	90.76	-5,278.56	1,725.03	3,068.12	2,936.04	132.08	23.229		
15,100.00	7,730.00	7,754.83	7,752.87	111.43	27.13	90.76	-5,278.56	1,725.03	3,026.66	2,893.84	132.82	22.788		
15,200.00	7,730.00	7,754.78	7,752.82	112.49	27.13	90.76	-5,278.56	1,725.03	2,987.96	2,854.43	133.54	22.376		
15,300.00	7,730.00	7,754.74	7,752.77	113.57	27.13	90.76	-5,278.56	1,725.03	2,952.15	2,817.93	134.22	21.995		
15,400.00	7,730.00	7,754.69	7,752.73	114.68	27.13	90.76	-5,278.56	1,725.03	2,919.32	2,784.45	134.87	21.645		
15,500.00	7,730.00	7,754.64	7,752.68	115.82	27.13	90.76	-5,278.56	1,725.03	2,889.59	2,754.11	135.48	21.328		
15,600.00	7,730.00	7,754.60	7,752.64	116.99	27.13	90.76	-5,278.56	1,725.03	2,863.04	2,727.00	136.04	21.045		
15,700.00	7,730.00	7,754.56	7,752.59	118.19	27.13	90.76	-5,278.56	1,725.03	2,839.76	2,703.21	136.55	20.796		
15,800.00	7,730.00	7,754.51	7,752.55	119.41	27.13	90.76	-5,278.56	1,725.03	2,819.84	2,682.84	137.00	20.583		
15,900.00	7,730.00	7,754.47	7,752.51	120.65	27.13	90.75	-5,278.56	1,725.03	2,803.35	2,665.97	137.39	20.405		
16,000.00	7,730.00	7,754.43	7,752.47	121.91	27.13	90.75	-5,278.56	1,725.03	2,790.35	2,652.65	137.70	20.263		
16,100.00	7,730.00	7,754.39	7,752.43	123.20	27.13	90.75	-5,278.56	1,725.03	2,780.89	2,642.94	137.95	20.159		
16,200.00	7,730.00	7,754.35	7,752.39	124.50	27.13	90.75	-5,278.56	1,725.03	2,774.99	2,636.87	138.12	20.091		
16,300.00	7,730.00	7,754.31	7,752.35	125.82	27.13	90.75	-5,278.56	1,725.03	2,772.70	2,634.48	138.22	20.060		
16,313.66	7,730.00	7,754.31	7,752.35	126.00	27.13	90.75	-5,278.56	1,725.03	2,772.67	2,634.44	138.22	20.059 CC, ES, SF		
16,400.00	7,730.00	7,754.28	7,752.31	127.16	27.13	90.75	-5,278.56	1,725.03	2,774.01	2,635.77	138.23	20.067		
16,500.00	7,730.00	7,754.24	7,752.28	128.52	27.13	90.75	-5,278.56	1,725.03	2,778.92	2,640.74	138.18	20.112		
16,600.00	7,730.00	7,754.20	7,752.24	129.89	27.13	90.75	-5,278.56	1,725.03	2,787.41	2,649.37	138.04	20.193		
16,700.00	7,730.00	7,754.17	7,752.21	131.27	27.13	90.75	-5,278.56	1,725.03	2,799.45	2,661.62	137.83	20.311		
16,800.00	7,730.00	7,754.13	7,752.17	132.67	27.13	90.75	-5,278.56	1,725.02	2,815.00	2,677.44	137.55	20.465		
16,900.00	7,730.00	7,754.10	7,752.14	134.09	27.13	90.75	-5,278.56	1,725.02	2,833.98	2,696.78	137.21	20.655		
17,000.00	7,730.00	7,754.06	7,752.10	135.51	27.13	90.75	-5,278.56	1,725.02	2,856.35	2,719.55	136.80	20.880		
17,100.00	7,730.00	7,754.03	7,752.07	136.95	27.13	90.75	-5,278.56	1,725.02	2,882.01	2,745.68	136.34	21.139		
17,200.00	7,730.00	7,754.00	7,752.04	138.40	27.13	90.74	-5,278.56	1,725.02	2,910.89	2,775.07	135.82	21.432		
17,300.00	7,730.00	7,753.97	7,752.01	139.85	27.13	90.74	-5,278.56	1,725.02	2,942.88	2,807.62	135.26	21.757		
17,400.00	7,730.00	7,753.94	7,751.97	141.32	27.13	90.74	-5,278.56	1,725.02	2,977.89	2,843.23	134.66	22.114		
17,500.00	7,730.00	7,753.90	7,751.94	142.80	27.13	90.74	-5,278.56	1,725.02	3,015.80	2,881.78	134.03	22.501		
17,600.00	7,730.00	7,753.87	7,751.91	144.28	27.13	90.74	-5,278.56	1,725.02	3,056.52	2,923.16	133.37	22.918		
17,700.00	7,730.00	7,753.85	7,751.88	145.78	27.13	90.74	-5,278.56	1,725.02	3,099.94	2,967.25	132.68	23.363		
17,800.00	7,730.00	7,753.82	7,751.86	147.28	27.13	90.74	-5,278.56	1,725.02	3,145.93	3,013.94	131.99	23.835		
17,900.00	7,730.00	7,753.79	7,751.83	148.79	27.13	90.74	-5,278.56	1,725.02	3,194.39	3,063.12	131.28	24.333		
18,000.00	7,730.00	7,753.76	7,751.80	150.31	27.13	90.74	-5,278.56	1,725.02	3,245.21	3,114.65	130.56	24.856		
18,100.00	7,730.00	7,753.73	7,751.77	151.83	27.13	90.74	-5,278.56	1,725.02	3,298.28	3,168.45	129.84	25.403		
18,200.00	7,730.00	7,753.70	7,751.74	153.37	27.13	90.74	-5,278.56	1,725.02	3,353.50	3,224.38	129.12	25.972		
18,300.00	7,730.00	7,753.68	7,751.72	154.90	27.13	90.74	-5,278.56	1,725.02	3,410.75	3,282.35	128.40	26.563		
18,400.00	7,730.00	7,753.65	7,751.69	156.45	27.13	90.74	-5,278.56	1,725.02	3,469.94	3,342.24	127.70	27.173		
18,500.00	7,730.00	7,753.63	7,751.66	158.00	27.13	90.74	-5,278.56	1,725.02	3,530.97	3,403.97	127.00	27.803		
18,600.00	7,730.00	7,753.60	7,751.64	159.55	27.13	90.74	-5,278.56	1,725.02	3,593.75	3,467.44	126.31	28.451		
18,700.00	7,730.00	7,753.58	7,751.61	161.11	27.13	90.74	-5,278.56	1,725.02	3,658.18	3,532.54	125.64	29.117		
18,800.00	7,730.00	7,753.55	7,751.59	162.68	27.13	90.74	-5,278.56	1,725.02	3,724.18	3,599.20	124.98	29.798		
18,900.00	7,730.00	7,753.53	7,751.57	164.25	27.13	90.73	-5,278.56	1,725.02	3,791.68	3,667.34	124.34	30.495		
19,000.00	7,730.00	7,753.50	7,751.54	165.83	27.13	90.73	-5,278.56	1,725.02	3,860.58	3,736.87	123.71	31.205		
19,100.00	7,730.00	7,753.48	7,751.52	167.41	27.13	90.73	-5,278.56	1,725.02	3,930.82	3,807.71	123.11	31.930		
19,200.00	7,730.00	7,753.46	7,751.50	168.99	27.13	90.73	-5,278.56	1,725.02	4,002.33	3,879.81	122.52	32.667		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY										Offset Site Error:	0.00 usft
Survey Program:		100-MWD OWSG										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,753.43	7,751.47	170.58	27.13	90.73	-5,278.56	1,725.02	4,075.03	3,953.08	121.95	33.416	
19,400.00	7,730.00	7,753.41	7,751.45	172.17	27.13	90.73	-5,278.56	1,725.02	4,148.87	4,027.48	121.40	34.175	
19,430.54	7,730.00	7,753.40	7,751.44	172.66	27.13	90.73	-5,278.56	1,725.02	4,171.64	4,050.41	121.23	34.410	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.71	-5,617.41	5,674.14	7,984.47					
100.00	100.00	73.00	73.00	0.13	0.56	134.71	-5,617.41	5,674.14	7,984.43	7,983.73	0.70	N/A		
200.00	200.00	173.00	173.00	0.49	2.04	134.71	-5,617.41	5,674.14	7,984.43	7,981.89	2.53	3,149.756		
300.00	300.00	273.00	273.00	0.85	3.79	134.71	-5,617.41	5,674.14	7,984.43	7,979.79	4.64	1,721.251		
400.00	400.00	373.00	373.00	1.21	5.53	134.71	-5,617.41	5,674.14	7,984.43	7,977.68	6.74	1,184.187		
500.00	500.00	473.00	473.00	1.57	7.28	134.71	-5,617.41	5,674.14	7,984.43	7,975.58	8.85	902.569		
600.00	599.98	572.98	572.98	1.92	9.02	69.38	-5,617.41	5,674.14	7,983.81	7,972.87	10.95	729.437		
700.00	699.84	672.84	672.84	2.28	10.77	69.45	-5,617.41	5,674.14	7,981.97	7,968.93	13.04	612.042		
800.00	799.45	772.45	772.45	2.64	12.50	69.57	-5,617.41	5,674.14	7,978.91	7,963.77	15.14	526.956		
900.00	898.70	871.70	871.70	3.02	14.24	69.73	-5,617.41	5,674.14	7,974.64	7,957.40	17.25	462.372		
1,000.00	997.47	970.47	970.47	3.41	15.96	69.94	-5,617.41	5,674.14	7,969.19	7,949.83	19.36	411.595		
1,100.00	1,095.62	1,068.62	1,068.62	3.84	17.67	70.19	-5,617.41	5,674.14	7,962.58	7,941.09	21.49	370.552		
1,200.00	1,193.06	1,166.06	1,166.06	4.29	19.37	70.49	-5,617.41	5,674.14	7,954.83	7,931.20	23.63	336.629		
1,300.00	1,289.64	1,262.64	1,262.64	4.78	21.06	70.82	-5,617.41	5,674.14	7,945.99	7,920.20	25.79	308.073		
1,400.00	1,385.27	1,358.27	1,358.27	5.32	22.73	71.20	-5,617.41	5,674.14	7,936.09	7,908.11	27.98	283.665		
1,500.00	1,479.82	1,452.82	1,452.82	5.90	24.38	71.62	-5,617.41	5,674.14	7,925.18	7,894.99	30.19	262.535		
1,600.00	1,573.17	1,546.17	1,546.17	6.53	26.01	72.08	-5,617.41	5,674.14	7,913.31	7,880.88	32.43	244.043		
1,700.00	1,665.21	1,638.21	1,638.21	7.23	27.61	72.58	-5,617.41	5,674.14	7,900.53	7,865.83	34.70	227.709		
1,800.00	1,755.84	1,728.84	1,728.84	7.98	29.20	73.11	-5,617.41	5,674.14	7,886.90	7,849.90	37.00	213.167		
1,900.00	1,844.94	1,817.94	1,817.94	8.80	30.75	73.67	-5,617.41	5,674.14	7,872.49	7,833.15	39.34	200.132		
2,000.00	1,932.39	1,905.39	1,905.39	9.68	32.28	74.27	-5,617.41	5,674.14	7,857.36	7,815.65	41.71	188.379		
2,100.00	2,018.11	2,008.89	1,991.11	10.63	34.08	74.89	-5,617.41	5,674.14	7,841.58	7,797.15	44.43	176.485		
2,200.00	2,101.97	2,074.97	2,074.97	11.65	35.24	75.54	-5,617.41	5,674.14	7,825.23	7,778.66	46.57	168.030		
2,300.00	2,183.88	2,156.88	2,156.88	12.74	36.67	76.21	-5,617.41	5,674.14	7,808.38	7,759.32	49.06	159.168		
2,400.00	2,263.74	2,236.74	2,236.74	13.90	38.06	76.90	-5,617.41	5,674.14	7,791.12	7,739.54	51.58	151.042		
2,431.61	2,288.54	2,261.54	2,261.54	14.29	38.49	77.12	-5,617.41	5,674.14	7,785.59	7,733.21	52.39	148.615		
2,500.00	2,341.97	2,314.97	2,314.97	15.13	39.43	77.36	-5,617.41	5,674.14	7,773.70	7,719.56	54.14	143.586		
2,600.00	2,420.08	2,406.92	2,393.08	16.37	41.03	77.72	-5,617.41	5,674.14	7,756.71	7,699.75	56.96	136.172		
2,700.00	2,498.20	2,471.20	2,471.20	17.63	42.15	78.08	-5,617.41	5,674.14	7,740.19	7,680.87	59.32	130.481		
2,800.00	2,576.32	2,549.32	2,549.32	18.89	43.52	78.43	-5,617.41	5,674.14	7,724.13	7,662.19	61.93	124.715		
2,900.00	2,654.43	2,627.43	2,627.43	20.17	44.88	78.79	-5,617.41	5,674.14	7,708.54	7,643.98	64.56	119.399		
3,000.00	2,732.55	2,705.55	2,705.55	21.45	46.24	79.15	-5,617.41	5,674.14	7,693.43	7,626.23	67.20	114.486		
3,100.00	2,810.67	2,783.67	2,783.67	22.74	47.61	79.52	-5,617.41	5,674.14	7,678.80	7,608.96	69.85	109.937		
3,200.00	2,888.78	2,861.78	2,861.78	24.03	48.97	79.88	-5,617.41	5,674.14	7,664.65	7,592.15	72.50	105.713		
3,300.00	2,966.90	2,939.90	2,939.90	25.33	50.33	80.24	-5,617.41	5,674.14	7,650.98	7,575.82	75.17	101.785		
3,400.00	3,045.02	3,018.02	3,018.02	26.63	51.70	80.60	-5,617.41	5,674.14	7,637.80	7,559.96	77.84	98.123		
3,500.00	3,123.13	3,103.87	3,096.13	27.94	53.20	80.97	-5,617.41	5,674.14	7,625.11	7,544.46	80.65	94.545		
3,600.00	3,201.25	3,174.25	3,174.25	29.24	54.42	81.33	-5,617.41	5,674.14	7,612.91	7,529.71	83.20	91.504		
3,700.00	3,279.37	3,252.37	3,252.37	30.55	55.79	81.70	-5,617.41	5,674.14	7,601.20	7,515.31	85.88	88.504		
3,800.00	3,357.49	3,330.49	3,330.49	31.86	57.15	82.07	-5,617.41	5,674.14	7,589.98	7,501.41	88.58	85.689		
3,900.00	3,435.60	3,408.60	3,408.60	33.18	58.51	82.43	-5,617.41	5,674.14	7,579.26	7,487.99	91.27	83.041		
4,000.00	3,513.72	3,486.72	3,486.72	34.49	59.88	82.80	-5,617.41	5,674.14	7,569.05	7,475.08	93.97	80.548		
4,100.00	3,591.84	3,564.84	3,564.84	35.81	61.24	83.17	-5,617.41	5,674.14	7,559.33	7,462.66	96.67	78.196		
4,200.00	3,669.95	3,642.95	3,642.95	37.12	62.60	83.54	-5,617.41	5,674.14	7,550.12	7,450.75	99.37	75.976		
4,300.00	3,748.07	3,721.07	3,721.07	38.44	63.97	83.91	-5,617.41	5,674.14	7,541.42	7,439.34	102.08	73.877		
4,400.00	3,826.19	3,800.81	3,799.19	39.76	65.36	84.28	-5,617.41	5,674.14	7,533.22	7,428.40	104.82	71.870		
4,500.00	3,904.30	3,877.30	3,877.30	41.08	66.69	84.65	-5,617.41	5,674.14	7,525.53	7,418.03	107.50	70.006		
4,600.00	3,982.42	3,955.42	3,955.42	42.40	68.06	85.02	-5,617.41	5,674.14	7,518.35	7,408.14	110.21	68.219		
4,700.00	4,060.54	4,033.54	4,033.54	43.72	69.42	85.39	-5,617.41	5,674.14	7,511.69	7,398.77	112.92	66.522		
4,800.00	4,138.66	4,111.66	4,111.66	45.05	70.78	85.76	-5,617.41	5,674.14	7,505.53	7,389.90	115.63	64.909		
4,900.00	4,216.77	4,189.77	4,189.77	46.37	72.15	86.13	-5,617.41	5,674.14	7,499.89	7,381.55	118.34	63.374		
5,000.00	4,294.89	4,267.89	4,267.89	47.69	73.51	86.51	-5,617.41	5,674.14	7,494.77	7,373.72	121.05	61.912		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,346.01	4,346.01	49.02	74.87	86.88	-5,617.41	5,674.14	7,490.17	7,366.40	123.77	60.519		
5,200.00	4,451.12	4,424.12	4,424.12	50.34	76.24	87.25	-5,617.41	5,674.14	7,486.08	7,359.60	126.48	59.190		
5,300.00	4,529.24	4,502.24	4,502.24	51.67	77.60	87.63	-5,617.41	5,674.14	7,482.51	7,353.32	129.19	57.921		
5,400.00	4,607.36	4,580.36	4,580.36	52.99	78.96	88.00	-5,617.41	5,674.14	7,479.46	7,347.57	131.89	56.709		
5,500.00	4,685.47	4,658.47	4,658.47	54.32	80.33	88.37	-5,617.41	5,674.14	7,476.93	7,342.33	134.60	55.550		
5,600.00	4,763.59	4,736.59	4,736.59	55.64	81.69	88.75	-5,617.41	5,674.14	7,474.92	7,337.62	137.30	54.441		
5,700.00	4,841.71	4,814.71	4,814.71	56.97	83.06	89.12	-5,617.41	5,674.14	7,473.43	7,333.43	140.01	53.380		
5,800.00	4,919.83	4,907.17	4,892.83	58.30	84.67	89.49	-5,617.41	5,674.14	7,472.47	7,329.51	142.96	52.271		
5,900.00	4,997.94	4,970.94	4,970.94	59.62	85.78	89.87	-5,617.41	5,674.14	7,472.02	7,326.62	145.40	51.389		
5,935.31	5,025.53	5,001.47	4,998.53	60.09	86.31	90.00	-5,617.41	5,674.14	7,471.99	7,325.58	146.40	51.037		
6,000.00	5,076.06	5,049.06	5,049.06	60.95	87.15	90.24	-5,617.41	5,674.14	7,472.10	7,324.00	148.10	50.455		
6,100.00	5,154.18	5,127.18	5,127.18	62.28	88.51	90.62	-5,617.41	5,674.14	7,472.70	7,321.91	150.79	49.558		
6,200.00	5,232.29	5,205.29	5,205.29	63.61	89.87	90.99	-5,617.41	5,674.14	7,473.82	7,320.34	153.47	48.698		
6,300.00	5,310.41	5,283.41	5,283.41	64.93	91.24	91.36	-5,617.41	5,674.14	7,475.46	7,319.30	156.16	47.872		
6,400.00	5,388.53	5,361.53	5,361.53	66.26	92.60	91.74	-5,617.41	5,674.14	7,477.62	7,318.78	158.83	47.078		
6,500.00	5,466.64	5,439.64	5,439.64	67.59	93.96	92.11	-5,617.41	5,674.14	7,480.30	7,318.79	161.51	46.315		
6,600.00	5,544.76	5,517.76	5,517.76	68.92	95.33	92.48	-5,617.41	5,674.14	7,483.50	7,319.32	164.18	45.581		
6,700.00	5,622.88	5,604.12	5,595.88	70.25	96.83	92.86	-5,617.41	5,674.14	7,487.22	7,320.24	166.99	44.837		
6,800.00	5,701.00	5,674.00	5,674.00	71.58	98.05	93.23	-5,617.41	5,674.14	7,491.46	7,321.96	169.50	44.196		
6,900.00	5,779.11	5,752.11	5,752.11	72.91	99.42	93.60	-5,617.41	5,674.14	7,496.22	7,324.06	172.16	43.542		
7,000.00	5,857.23	5,830.23	5,830.23	74.23	100.78	93.98	-5,617.41	5,674.14	7,501.50	7,326.69	174.81	42.913		
7,100.00	5,935.35	5,908.35	5,908.35	75.56	102.14	94.35	-5,617.41	5,674.14	7,507.29	7,329.83	177.45	42.306		
7,200.00	6,013.46	5,986.46	5,986.46	76.89	103.51	94.72	-5,617.41	5,674.14	7,513.59	7,333.50	180.09	41.721		
7,300.00	6,091.58	6,064.58	6,064.58	78.22	104.87	95.09	-5,617.41	5,674.14	7,520.41	7,337.69	182.72	41.158		
7,400.00	6,169.70	6,142.70	6,142.70	79.55	106.23	95.46	-5,617.41	5,674.14	7,527.74	7,342.39	185.35	40.614		
7,500.00	6,247.81	6,220.81	6,220.81	80.88	107.60	95.83	-5,617.41	5,674.14	7,535.57	7,347.61	187.96	40.090		
7,600.00	6,325.93	6,301.07	6,298.93	82.21	109.00	96.20	-5,617.41	5,674.14	7,543.92	7,353.31	190.61	39.577		
7,700.00	6,404.05	6,377.05	6,377.05	83.54	110.32	96.57	-5,617.41	5,674.14	7,552.78	7,359.59	193.18	39.097		
7,800.00	6,482.17	6,455.17	6,455.17	84.87	111.69	96.94	-5,617.41	5,674.14	7,562.13	7,366.36	195.78	38.626		
7,900.00	6,560.28	6,533.28	6,533.28	86.20	113.05	97.31	-5,617.41	5,674.14	7,572.00	7,373.63	198.37	38.171		
8,000.00	6,638.40	6,611.40	6,611.40	87.53	114.41	97.68	-5,617.41	5,674.14	7,582.36	7,381.41	200.95	37.732		
8,100.00	6,716.52	6,689.52	6,689.52	88.86	115.78	98.04	-5,617.41	5,674.14	7,593.22	7,389.69	203.53	37.308		
8,200.00	6,794.63	6,767.63	6,767.63	90.20	117.14	98.41	-5,617.41	5,674.14	7,604.58	7,398.49	206.10	36.898		
8,300.00	6,872.75	6,845.75	6,845.75	91.53	118.50	98.77	-5,617.41	5,674.14	7,616.44	7,407.78	208.66	36.502		
8,400.00	6,950.87	6,923.87	6,923.87	92.86	119.87	99.14	-5,617.41	5,674.14	7,628.79	7,417.58	211.21	36.120		
8,500.00	7,028.98	7,001.98	7,001.98	94.19	121.23	99.50	-5,617.41	5,674.14	7,641.62	7,427.87	213.75	35.750		
8,600.00	7,107.10	7,080.10	7,080.10	95.52	122.59	99.87	-5,617.41	5,674.14	7,654.95	7,438.66	216.29	35.392		
8,647.91	7,144.53	7,117.53	7,117.53	96.16	123.25	100.04	-5,617.41	5,674.14	7,661.50	7,444.00	217.50	35.225		
8,650.00	7,146.16	7,119.16	7,119.16	96.18	123.28	99.81	-5,617.41	5,674.14	7,661.79	7,444.24	217.55	35.218		
8,700.00	7,185.66	7,158.66	7,158.66	96.84	123.96	93.89	-5,617.41	5,674.14	7,666.44	7,447.61	218.82	35.035		
8,750.00	7,225.78	7,201.22	7,198.78	97.47	124.71	87.46	-5,617.41	5,674.14	7,666.91	7,446.77	220.14	34.827		
8,800.00	7,266.21	7,239.21	7,239.21	98.08	125.37	80.73	-5,617.41	5,674.14	7,663.20	7,441.83	221.37	34.618		
8,850.00	7,306.63	7,279.63	7,279.63	98.64	126.08	73.92	-5,617.41	5,674.14	7,655.32	7,432.70	222.62	34.388		
8,900.00	7,346.75	7,319.75	7,319.75	99.17	126.78	67.29	-5,617.41	5,674.14	7,643.32	7,419.49	223.83	34.147		
8,950.00	7,386.25	7,359.25	7,359.25	99.64	127.47	61.01	-5,617.41	5,674.14	7,627.29	7,402.28	225.01	33.898		
9,000.00	7,424.84	7,402.16	7,397.84	100.06	128.21	55.22	-5,617.41	5,674.14	7,607.32	7,381.11	226.21	33.630		
9,050.00	7,462.22	7,435.22	7,435.22	100.42	128.79	49.95	-5,617.41	5,674.14	7,583.57	7,356.37	227.20	33.379		
9,100.00	7,498.11	7,471.11	7,471.11	100.74	129.42	45.20	-5,617.41	5,674.14	7,556.19	7,327.99	228.19	33.113		
9,150.00	7,532.24	7,505.24	7,505.24	100.99	130.01	40.89	-5,617.41	5,674.14	7,525.37	7,296.26	229.12	32.845		
9,200.00	7,564.34	7,537.34	7,537.34	101.19	130.57	36.94	-5,617.41	5,674.14	7,491.35	7,261.39	229.96	32.577		
9,250.00	7,594.17	7,567.17	7,567.17	101.34	131.09	33.23	-5,617.41	5,674.14	7,454.36	7,223.64	230.72	32.309		
9,300.00	7,621.50	7,605.50	7,594.50	101.45	131.76	29.60	-5,617.41	5,674.14	7,414.67	7,183.08	231.58	32.017		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,619.13	7,619.13	101.50	132.00	25.84	-5,617.41	5,674.14	7,372.56	7,140.59	231.97	31.782		
9,400.00	7,667.87	7,640.87	7,640.87	101.51	132.38	21.63	-5,617.41	5,674.14	7,328.36	7,095.89	232.47	31.524		
9,450.00	7,686.55	7,659.55	7,659.55	101.48	132.71	16.40	-5,617.41	5,674.14	7,282.39	7,049.52	232.87	31.273		
9,500.00	7,702.04	7,675.04	7,675.04	101.42	132.98	9.06	-5,617.41	5,674.14	7,234.98	7,001.81	233.18	31.028		
9,550.00	7,714.20	7,687.20	7,687.20	101.33	133.19	-2.80	-5,617.41	5,674.14	7,186.51	6,953.11	233.40	30.791		
9,600.00	7,722.96	7,704.04	7,695.96	101.20	133.48	-24.30	-5,617.41	5,674.14	7,137.33	6,903.66	233.67	30.545		
9,650.00	7,728.24	7,701.24	7,701.24	101.06	133.43	-58.78	-5,617.41	5,674.14	7,087.83	6,854.26	233.57	30.346		
9,699.97	7,730.00	7,703.00	7,703.00	100.90	133.47	-90.00	-5,617.41	5,674.14	7,038.41	6,804.88	233.53	30.139		
9,800.00	7,730.00	7,703.00	7,703.00	100.56	133.47	-90.00	-5,617.41	5,674.14	6,939.81	6,706.45	233.36	29.738		
9,900.00	7,730.00	7,703.00	7,703.00	100.24	133.47	-90.00	-5,617.41	5,674.14	6,841.28	6,608.09	233.19	29.338		
10,000.00	7,730.00	7,703.00	7,703.00	99.93	133.47	-90.00	-5,617.41	5,674.14	6,742.79	6,509.78	233.01	28.937		
10,100.00	7,730.00	7,703.00	7,703.00	99.64	133.47	-90.00	-5,617.41	5,674.14	6,644.35	6,411.52	232.83	28.537		
10,200.00	7,730.00	7,703.00	7,703.00	99.36	133.47	-90.00	-5,617.41	5,674.14	6,545.96	6,313.31	232.65	28.137		
10,300.00	7,730.00	7,703.00	7,703.00	99.09	133.47	-90.00	-5,617.41	5,674.14	6,447.62	6,215.16	232.46	27.737		
10,400.00	7,730.00	7,703.00	7,703.00	98.84	133.47	-90.00	-5,617.41	5,674.14	6,349.33	6,117.07	232.26	27.337		
10,500.00	7,730.00	7,703.00	7,703.00	98.61	133.47	-90.00	-5,617.41	5,674.14	6,251.09	6,019.03	232.06	26.937		
10,600.00	7,730.00	7,703.00	7,703.00	98.39	133.47	-90.00	-5,617.41	5,674.14	6,152.91	5,921.06	231.85	26.538		
10,700.00	7,730.00	7,703.00	7,703.00	98.18	133.47	-90.00	-5,617.41	5,674.14	6,054.79	5,823.15	231.64	26.139		
10,800.00	7,730.00	7,703.00	7,703.00	97.99	133.47	-90.00	-5,617.41	5,674.14	5,956.73	5,725.32	231.42	25.740		
10,900.00	7,730.00	7,703.00	7,703.00	97.81	133.47	-90.00	-5,617.41	5,674.14	5,858.74	5,627.55	231.19	25.342		
11,000.00	7,730.00	7,703.00	7,703.00	97.64	133.47	-90.00	-5,617.41	5,674.14	5,760.82	5,529.86	230.95	24.944		
11,100.00	7,730.00	7,703.00	7,703.00	97.50	133.47	-90.00	-5,617.41	5,674.14	5,662.97	5,432.25	230.71	24.546		
11,200.00	7,730.00	7,703.00	7,703.00	97.36	133.47	-90.00	-5,617.41	5,674.14	5,565.19	5,334.73	230.46	24.148		
11,300.00	7,730.00	7,703.00	7,703.00	97.24	133.47	-90.00	-5,617.41	5,674.14	5,467.50	5,237.30	230.20	23.751		
11,400.00	7,730.00	7,703.00	7,703.00	97.14	133.47	-90.00	-5,617.41	5,674.14	5,369.89	5,139.95	229.94	23.354		
11,500.00	7,730.00	7,703.00	7,703.00	97.06	133.47	-90.00	-5,617.41	5,674.14	5,272.37	5,042.71	229.66	22.957		
11,600.00	7,730.00	7,703.00	7,703.00	96.98	133.47	-90.00	-5,617.41	5,674.14	5,174.95	4,945.57	229.37	22.561		
11,700.00	7,730.00	7,703.00	7,703.00	96.93	133.47	-90.00	-5,617.41	5,674.14	5,077.62	4,848.54	229.08	22.166		
11,800.00	7,730.00	7,703.00	7,703.00	96.90	133.47	-90.00	-5,617.41	5,674.14	4,980.40	4,751.63	228.77	21.770		
11,900.00	7,730.00	7,703.00	7,703.00	96.88	133.47	-90.00	-5,617.41	5,674.14	4,883.30	4,654.84	228.45	21.376		
12,000.00	7,730.00	7,703.00	7,703.00	96.88	133.47	-90.00	-5,617.41	5,674.14	4,786.31	4,558.19	228.12	20.981		
12,100.00	7,730.00	7,703.00	7,703.00	96.90	133.47	-90.00	-5,617.41	5,674.14	4,689.45	4,461.67	227.78	20.588		
12,200.00	7,730.00	7,703.00	7,703.00	96.94	133.47	-90.00	-5,617.41	5,674.14	4,592.72	4,365.30	227.42	20.195		
12,300.00	7,730.00	7,703.00	7,703.00	97.00	133.47	-90.00	-5,617.41	5,674.14	4,496.14	4,269.09	227.05	19.802		
12,400.00	7,730.00	7,703.00	7,703.00	97.08	133.47	-90.00	-5,617.41	5,674.14	4,399.71	4,173.04	226.67	19.410		
12,500.00	7,730.00	7,703.00	7,703.00	97.18	133.47	-90.00	-5,617.41	5,674.14	4,303.44	4,077.17	226.27	19.019		
12,600.00	7,730.00	7,703.00	7,703.00	97.31	133.47	-90.00	-5,617.41	5,674.14	4,207.35	3,981.49	225.86	18.628		
12,700.00	7,730.00	7,703.00	7,703.00	97.46	133.47	-90.00	-5,617.41	5,674.14	4,111.44	3,886.02	225.42	18.239		
12,800.00	7,730.00	7,703.00	7,703.00	97.64	133.47	-90.00	-5,617.41	5,674.14	4,015.74	3,790.76	224.97	17.850		
12,900.00	7,730.00	7,703.00	7,703.00	97.85	133.47	-90.00	-5,617.41	5,674.14	3,920.24	3,695.74	224.51	17.462		
13,000.00	7,730.00	7,703.00	7,703.00	98.09	133.47	-90.00	-5,617.41	5,674.14	3,824.98	3,600.97	224.02	17.075		
13,100.00	7,730.00	7,703.00	7,703.00	98.35	133.47	-90.00	-5,617.41	5,674.14	3,729.97	3,506.46	223.51	16.688		
13,200.00	7,730.00	7,703.00	7,703.00	98.65	133.47	-90.00	-5,617.41	5,674.14	3,635.22	3,412.25	222.98	16.303		
13,300.00	7,730.00	7,703.00	7,703.00	98.98	133.47	-90.00	-5,617.41	5,674.14	3,540.76	3,318.34	222.42	15.919		
13,400.00	7,730.00	7,703.00	7,703.00	99.34	133.47	-90.00	-5,617.41	5,674.14	3,446.62	3,224.78	221.84	15.536		
13,500.00	7,730.00	7,703.00	7,703.00	99.74	133.47	-90.00	-5,617.41	5,674.14	3,352.81	3,131.58	221.24	15.155		
13,600.00	7,730.00	7,703.00	7,703.00	100.17	133.47	-90.00	-5,617.41	5,674.14	3,259.38	3,038.77	220.61	14.774		
13,700.00	7,730.00	7,703.00	7,703.00	100.65	133.47	-90.00	-5,617.41	5,674.14	3,166.34	2,946.39	219.95	14.395		
13,800.00	7,730.00	7,703.00	7,703.00	101.16	133.47	-90.00	-5,617.41	5,674.14	3,073.74	2,854.47	219.27	14.018		
13,900.00	7,730.00	7,703.00	7,703.00	101.71	133.47	-90.00	-5,617.41	5,674.14	2,981.62	2,763.06	218.56	13.642		
14,000.00	7,730.00	7,703.00	7,703.00	102.30	133.47	-90.00	-5,617.41	5,674.14	2,890.02	2,672.20	217.82	13.268		
14,100.00	7,730.00	7,703.00	7,703.00	102.93	133.47	-90.00	-5,617.41	5,674.14	2,799.00	2,581.94	217.06	12.895		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,703.00	7,703.00	103.60	133.47	-90.00	-5,617.41	5,674.14	2,708.61	2,492.34	216.27	12.524		
14,300.00	7,730.00	7,703.00	7,703.00	104.32	133.47	-90.00	-5,617.41	5,674.14	2,618.92	2,403.47	215.45	12.155		
14,400.00	7,730.00	7,703.00	7,703.00	105.07	133.47	-90.00	-5,617.41	5,674.14	2,530.01	2,315.39	214.62	11.788		
14,500.00	7,730.00	7,703.00	7,703.00	105.86	133.47	-90.00	-5,617.41	5,674.14	2,441.95	2,228.18	213.77	11.423		
14,600.00	7,730.00	7,703.00	7,703.00	106.70	133.47	-90.00	-5,617.41	5,674.14	2,354.84	2,141.93	212.91	11.060		
14,700.00	7,730.00	7,703.00	7,703.00	107.57	133.47	-90.00	-5,617.41	5,674.14	2,268.80	2,056.74	212.06	10.699		
14,800.00	7,730.00	7,703.00	7,703.00	108.48	133.47	-90.00	-5,617.41	5,674.14	2,183.95	1,972.73	211.22	10.340		
14,900.00	7,730.00	7,703.00	7,703.00	109.43	133.47	-90.00	-5,617.41	5,674.14	2,100.43	1,890.01	210.42	9.982		
15,000.00	7,730.00	7,703.00	7,703.00	110.42	133.47	-90.00	-5,617.41	5,674.14	2,018.41	1,808.73	209.68	9.626		
15,100.00	7,730.00	7,703.00	7,703.00	111.43	133.47	-90.00	-5,617.41	5,674.14	1,938.08	1,729.05	209.03	9.272		
15,200.00	7,730.00	7,703.00	7,703.00	112.49	133.47	-90.00	-5,617.41	5,674.14	1,859.66	1,651.14	208.52	8.918		
15,300.00	7,730.00	7,703.00	7,703.00	113.57	133.47	-90.00	-5,617.41	5,674.14	1,783.40	1,575.20	208.20	8.566		
15,400.00	7,730.00	7,703.00	7,703.00	114.68	133.47	-90.00	-5,617.41	5,674.14	1,709.58	1,501.46	208.13	8.214		
15,500.00	7,730.00	7,703.00	7,703.00	115.82	133.47	-90.00	-5,617.41	5,674.14	1,638.55	1,430.17	208.38	7.863		
15,600.00	7,730.00	7,703.00	7,703.00	116.99	133.47	-90.00	-5,617.41	5,674.14	1,570.68	1,361.62	209.05	7.513		
15,700.00	7,730.00	7,703.00	7,703.00	118.19	133.47	-90.00	-5,617.41	5,674.14	1,506.38	1,296.16	210.22	7.166		
15,800.00	7,730.00	7,703.00	7,703.00	119.41	133.47	-90.00	-5,617.41	5,674.14	1,446.16	1,234.18	211.98	6.822		
15,900.00	7,730.00	7,703.00	7,703.00	120.65	133.47	-90.00	-5,617.41	5,674.14	1,390.52	1,176.12	214.40	6.486		
16,000.00	7,730.00	7,703.00	7,703.00	121.91	133.47	-90.00	-5,617.41	5,674.14	1,340.04	1,122.53	217.51	6.161		
16,100.00	7,730.00	7,703.00	7,703.00	123.20	133.47	-90.00	-5,617.41	5,674.14	1,295.33	1,074.00	221.33	5.852		
16,200.00	7,730.00	7,703.00	7,703.00	124.50	133.47	-90.00	-5,617.41	5,674.14	1,257.01	1,031.20	225.81	5.567		
16,300.00	7,730.00	7,703.00	7,703.00	125.82	133.47	-90.00	-5,617.41	5,674.14	1,225.66	994.83	230.83	5.310		
16,400.00	7,730.00	7,703.00	7,703.00	127.16	133.47	-90.00	-5,617.41	5,674.14	1,201.84	965.59	236.24	5.087		
16,500.00	7,730.00	7,703.00	7,703.00	128.52	133.47	-90.00	-5,617.41	5,674.14	1,186.00	944.14	241.86	4.904		
16,600.00	7,730.00	7,703.00	7,703.00	129.89	133.47	-90.00	-5,617.41	5,674.14	1,178.46	931.01	247.44	4.763		
16,639.13	7,730.00	7,703.00	7,703.00	130.43	133.47	-90.00	-5,617.41	5,674.14	1,177.81	928.23	249.58	4.719 CC		
16,700.00	7,730.00	7,703.00	7,703.00	131.27	133.47	-90.00	-5,617.41	5,674.14	1,179.38	926.58	252.80	4.665 ES		
16,800.00	7,730.00	7,703.00	7,703.00	132.67	133.47	-90.00	-5,617.41	5,674.14	1,188.74	931.00	257.74	4.612		
16,900.00	7,730.00	7,703.00	7,703.00	134.09	133.47	-90.00	-5,617.41	5,674.14	1,206.35	944.22	262.13	4.602 SF		
17,000.00	7,730.00	7,703.00	7,703.00	135.51	133.47	-90.00	-5,617.41	5,674.14	1,231.85	965.96	265.89	4.633		
17,100.00	7,730.00	7,703.00	7,703.00	136.95	133.47	-90.00	-5,617.41	5,674.14	1,264.77	995.78	268.98	4.702		
17,200.00	7,730.00	7,703.00	7,703.00	138.40	133.47	-90.00	-5,617.41	5,674.14	1,304.53	1,033.09	271.44	4.806		
17,300.00	7,730.00	7,703.00	7,703.00	139.85	133.47	-90.00	-5,617.41	5,674.14	1,350.55	1,077.25	273.30	4.942		
17,400.00	7,730.00	7,703.00	7,703.00	141.32	133.47	-90.00	-5,617.41	5,674.14	1,402.20	1,127.55	274.64	5.105		
17,500.00	7,730.00	7,703.00	7,703.00	142.80	133.47	-90.00	-5,617.41	5,674.14	1,458.88	1,183.34	275.54	5.295		
17,600.00	7,730.00	7,703.00	7,703.00	144.28	133.47	-90.00	-5,617.41	5,674.14	1,520.03	1,243.96	276.07	5.506		
17,700.00	7,730.00	7,703.00	7,703.00	145.78	133.47	-90.00	-5,617.41	5,674.14	1,585.14	1,308.84	276.30	5.737		
17,800.00	7,730.00	7,703.00	7,703.00	147.28	133.47	-90.00	-5,617.41	5,674.14	1,653.74	1,377.44	276.30	5.985		
17,900.00	7,730.00	7,703.00	7,703.00	148.79	133.47	-90.00	-5,617.41	5,674.14	1,725.41	1,449.30	276.11	6.249		
18,000.00	7,730.00	7,703.00	7,703.00	150.31	133.47	-90.00	-5,617.41	5,674.14	1,799.78	1,523.99	275.78	6.526		
18,100.00	7,730.00	7,703.00	7,703.00	151.83	133.47	-90.00	-5,617.41	5,674.14	1,876.53	1,601.18	275.36	6.815		
18,200.00	7,730.00	7,703.00	7,703.00	153.37	133.47	-90.00	-5,617.41	5,674.14	1,955.39	1,680.53	274.86	7.114		
18,300.00	7,730.00	7,703.00	7,703.00	154.90	133.47	-90.00	-5,617.41	5,674.14	2,036.10	1,761.80	274.30	7.423		
18,400.00	7,730.00	7,703.00	7,703.00	156.45	133.47	-90.00	-5,617.41	5,674.14	2,118.47	1,844.75	273.72	7.740		
18,500.00	7,730.00	7,703.00	7,703.00	158.00	133.47	-90.00	-5,617.41	5,674.14	2,202.29	1,929.18	273.11	8.064		
18,600.00	7,730.00	7,703.00	7,703.00	159.55	133.47	-90.00	-5,617.41	5,674.14	2,287.41	2,014.91	272.50	8.394		
18,700.00	7,730.00	7,703.00	7,703.00	161.11	133.47	-90.00	-5,617.41	5,674.14	2,373.69	2,101.81	271.88	8.731		
18,800.00	7,730.00	7,703.00	7,703.00	162.68	133.47	-90.00	-5,617.41	5,674.14	2,461.01	2,189.74	271.27	9.072		
18,900.00	7,730.00	7,703.00	7,703.00	164.25	133.47	-90.00	-5,617.41	5,674.14	2,549.27	2,278.60	270.67	9.418		
19,000.00	7,730.00	7,703.00	7,703.00	165.83	133.47	-90.00	-5,617.41	5,674.14	2,638.36	2,368.28	270.08	9.769		
19,100.00	7,730.00	7,703.00	7,703.00	167.41	133.47	-90.00	-5,617.41	5,674.14	2,728.21	2,458.70	269.51	10.123		
19,200.00	7,730.00	7,703.00	7,703.00	168.99	133.47	-90.00	-5,617.41	5,674.14	2,818.74	2,549.79	268.95	10.481		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT ROBERTS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,703.00	7,703.00	170.58	133.47	-90.00	-5,617.41	5,674.14	2,909.89	2,641.48	268.41	10.841	
19,400.00	7,730.00	7,703.00	7,703.00	172.17	133.47	-90.00	-5,617.41	5,674.14	3,001.61	2,733.72	267.88	11.205	
19,430.54	7,730.00	7,703.00	7,703.00	172.66	133.47	-90.00	-5,617.41	5,674.14	3,029.72	2,761.99	267.73	11.316	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.54	-4,823.42	4,900.72	6,876.38					
100.00	100.00	54.00	54.00	0.13	0.41	134.54	-4,823.42	4,900.72	6,876.22	6,875.67	0.55	N/A		
200.00	200.00	154.00	154.00	0.49	1.71	134.54	-4,823.42	4,900.72	6,876.22	6,874.02	2.20	3,120.843		
300.00	300.00	254.00	254.00	0.85	3.46	134.54	-4,823.42	4,900.72	6,876.22	6,871.92	4.31	1,596.477		
400.00	400.00	354.00	354.00	1.21	5.20	134.54	-4,823.42	4,900.72	6,876.22	6,869.81	6.41	1,072.579		
500.00	500.00	454.00	454.00	1.57	6.95	134.54	-4,823.42	4,900.72	6,876.22	6,867.71	8.51	807.568		
600.00	599.98	553.98	553.98	1.92	8.69	69.22	-4,823.42	4,900.72	6,875.60	6,864.99	10.61	647.813		
700.00	699.84	653.84	653.84	2.28	10.43	69.29	-4,823.42	4,900.72	6,873.75	6,861.04	12.71	540.818		
800.00	799.45	753.45	753.45	2.64	12.17	69.42	-4,823.42	4,900.72	6,870.66	6,855.85	14.81	463.924		
900.00	898.70	852.70	852.70	3.02	13.91	69.59	-4,823.42	4,900.72	6,866.37	6,849.45	16.92	405.920		
1,000.00	997.47	951.47	951.47	3.41	15.63	69.82	-4,823.42	4,900.72	6,860.88	6,841.85	19.03	360.530		
1,100.00	1,095.62	1,049.62	1,049.62	3.84	17.34	70.09	-4,823.42	4,900.72	6,854.24	6,833.08	21.16	323.976		
1,200.00	1,193.06	1,147.06	1,147.06	4.29	19.04	70.41	-4,823.42	4,900.72	6,846.46	6,823.16	23.30	293.852		
1,300.00	1,289.64	1,243.64	1,243.64	4.78	20.73	70.78	-4,823.42	4,900.72	6,837.59	6,812.13	25.46	268.554		
1,400.00	1,385.27	1,339.27	1,339.27	5.32	22.40	71.19	-4,823.42	4,900.72	6,827.68	6,800.03	27.65	246.975		
1,500.00	1,479.82	1,433.82	1,433.82	5.90	24.05	71.64	-4,823.42	4,900.72	6,816.77	6,786.91	29.86	228.324		
1,600.00	1,573.17	1,527.17	1,527.17	6.53	25.68	72.14	-4,823.42	4,900.72	6,804.92	6,772.82	32.09	212.025		
1,700.00	1,665.21	1,619.21	1,619.21	7.23	27.28	72.68	-4,823.42	4,900.72	6,792.19	6,757.83	34.37	197.646		
1,800.00	1,755.84	1,709.84	1,709.84	7.98	28.86	73.25	-4,823.42	4,900.72	6,778.65	6,741.99	36.67	184.857		
1,900.00	1,844.94	1,801.06	1,798.94	8.80	30.46	73.86	-4,823.42	4,900.72	6,764.38	6,725.33	39.05	173.240		
2,000.00	1,932.39	1,886.39	1,886.39	9.68	31.95	74.50	-4,823.42	4,900.72	6,749.43	6,708.05	41.39	163.088		
2,100.00	2,018.11	1,972.11	1,972.11	10.63	33.44	75.17	-4,823.42	4,900.72	6,733.90	6,690.10	43.80	153.745		
2,200.00	2,101.97	2,055.97	2,055.97	11.65	34.91	75.86	-4,823.42	4,900.72	6,717.87	6,671.62	46.25	145.246		
2,300.00	2,183.88	2,137.88	2,137.88	12.74	36.34	76.58	-4,823.42	4,900.72	6,701.42	6,652.68	48.74	137.485		
2,400.00	2,263.74	2,217.74	2,217.74	13.90	37.73	77.32	-4,823.42	4,900.72	6,684.65	6,633.38	51.27	130.373		
2,431.61	2,288.54	2,242.54	2,242.54	14.29	38.16	77.56	-4,823.42	4,900.72	6,679.30	6,627.22	52.08	128.251		
2,500.00	2,341.97	2,304.04	2,295.97	15.13	39.24	77.84	-4,823.42	4,900.72	6,667.82	6,613.84	53.98	123.530		
2,600.00	2,420.08	2,374.08	2,374.08	16.37	40.46	78.26	-4,823.42	4,900.72	6,651.49	6,595.06	56.42	117.884		
2,700.00	2,498.20	2,452.20	2,452.20	17.63	41.82	78.67	-4,823.42	4,900.72	6,635.71	6,576.68	59.03	112.412		
2,800.00	2,576.32	2,530.32	2,530.32	18.89	43.18	79.09	-4,823.42	4,900.72	6,620.48	6,558.83	61.65	107.385		
2,900.00	2,654.43	2,608.43	2,608.43	20.17	44.55	79.51	-4,823.42	4,900.72	6,605.80	6,541.52	64.29	102.756		
3,000.00	2,732.55	2,686.55	2,686.55	21.45	45.91	79.93	-4,823.42	4,900.72	6,591.69	6,524.76	66.93	98.483		
3,100.00	2,810.67	2,764.67	2,764.67	22.74	47.28	80.36	-4,823.42	4,900.72	6,578.13	6,508.55	69.59	94.530		
3,200.00	2,888.78	2,842.78	2,842.78	24.03	48.64	80.78	-4,823.42	4,900.72	6,565.15	6,492.89	72.25	90.864		
3,300.00	2,966.90	2,920.90	2,920.90	25.33	50.00	81.20	-4,823.42	4,900.72	6,552.73	6,477.80	74.92	87.458		
3,400.00	3,045.02	3,000.98	2,999.02	26.63	51.40	81.63	-4,823.42	4,900.72	6,540.88	6,463.25	77.64	84.250		
3,500.00	3,123.13	3,077.13	3,077.13	27.94	52.73	82.05	-4,823.42	4,900.72	6,529.61	6,449.32	80.29	81.329		
3,600.00	3,201.25	3,155.25	3,155.25	29.24	54.09	82.48	-4,823.42	4,900.72	6,518.92	6,435.94	82.98	78.564		
3,700.00	3,279.37	3,233.37	3,233.37	30.55	55.46	82.91	-4,823.42	4,900.72	6,508.81	6,423.14	85.67	75.976		
3,800.00	3,357.49	3,311.49	3,311.49	31.86	56.82	83.34	-4,823.42	4,900.72	6,499.28	6,410.91	88.37	73.549		
3,900.00	3,435.60	3,389.60	3,389.60	33.18	58.18	83.77	-4,823.42	4,900.72	6,490.34	6,399.27	91.07	71.270		
4,000.00	3,513.72	3,467.72	3,467.72	34.49	59.55	84.20	-4,823.42	4,900.72	6,481.99	6,388.22	93.77	69.127		
4,100.00	3,591.84	3,545.84	3,545.84	35.81	60.91	84.63	-4,823.42	4,900.72	6,474.23	6,377.75	96.47	67.108		
4,200.00	3,669.95	3,623.95	3,623.95	37.12	62.27	85.06	-4,823.42	4,900.72	6,467.06	6,367.88	99.18	65.205		
4,300.00	3,748.07	3,702.07	3,702.07	38.44	63.64	85.49	-4,823.42	4,900.72	6,460.49	6,358.60	101.89	63.407		
4,400.00	3,826.19	3,780.19	3,780.19	39.76	65.00	85.92	-4,823.42	4,900.72	6,454.51	6,349.92	104.60	61.708		
4,500.00	3,904.30	3,858.30	3,858.30	41.08	66.36	86.35	-4,823.42	4,900.72	6,449.14	6,341.83	107.31	60.101		
4,600.00	3,982.42	3,936.42	3,936.42	42.40	67.73	86.79	-4,823.42	4,900.72	6,444.36	6,334.35	110.01	58.578		
4,700.00	4,060.54	4,014.54	4,014.54	43.72	69.09	87.22	-4,823.42	4,900.72	6,440.19	6,327.47	112.72	57.133		
4,800.00	4,138.66	4,102.34	4,092.66	45.05	70.71	87.65	-4,823.42	4,900.72	6,436.62	6,320.94	115.68	55.639		
4,900.00	4,216.77	4,170.77	4,170.77	46.37	71.82	88.09	-4,823.42	4,900.72	6,433.65	6,315.52	118.13	54.461		
5,000.00	4,294.89	4,248.89	4,248.89	47.69	73.18	88.52	-4,823.42	4,900.72	6,431.29	6,310.46	120.84	53.223		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,327.01	4,327.01	49.02	74.54	88.96	-4,823.42	4,900.72	6,429.54	6,306.00	123.54	52.045		
5,200.00	4,451.12	4,405.12	4,405.12	50.34	75.91	89.39	-4,823.42	4,900.72	6,428.39	6,302.15	126.24	50.923		
5,300.00	4,529.24	4,483.24	4,483.24	51.67	77.27	89.83	-4,823.42	4,900.72	6,427.84	6,298.91	128.93	49.855		
5,339.77	4,560.31	4,514.31	4,514.31	52.19	77.81	90.00	-4,823.42	4,900.72	6,427.79	6,297.79	130.00	49.443		
5,400.00	4,607.36	4,561.36	4,561.36	52.99	78.63	90.26	-4,823.42	4,900.72	6,427.90	6,296.28	131.62	48.835		
5,500.00	4,685.47	4,639.47	4,639.47	54.32	80.00	90.70	-4,823.42	4,900.72	6,428.57	6,294.26	134.31	47.863		
5,600.00	4,763.59	4,717.59	4,717.59	55.64	81.36	91.13	-4,823.42	4,900.72	6,429.85	6,292.85	137.00	46.935		
5,700.00	4,841.71	4,804.29	4,795.71	56.97	82.87	91.57	-4,823.42	4,900.72	6,431.73	6,291.90	139.83	45.998		
5,800.00	4,919.83	4,873.83	4,873.83	58.30	84.09	92.00	-4,823.42	4,900.72	6,434.21	6,291.86	142.35	45.200		
5,900.00	4,997.94	4,951.94	4,951.94	59.62	85.45	92.43	-4,823.42	4,900.72	6,437.30	6,292.28	145.02	44.389		
6,000.00	5,076.06	5,030.06	5,030.06	60.95	86.81	92.87	-4,823.42	4,900.72	6,441.00	6,293.31	147.68	43.613		
6,100.00	5,154.18	5,108.18	5,108.18	62.28	88.18	93.30	-4,823.42	4,900.72	6,445.29	6,294.95	150.34	42.871		
6,200.00	5,232.29	5,186.29	5,186.29	63.61	89.54	93.73	-4,823.42	4,900.72	6,450.19	6,297.20	152.99	42.160		
6,300.00	5,310.41	5,264.41	5,264.41	64.93	90.90	94.17	-4,823.42	4,900.72	6,455.69	6,300.05	155.64	41.478		
6,400.00	5,388.53	5,342.53	5,342.53	66.26	92.27	94.60	-4,823.42	4,900.72	6,461.78	6,303.51	158.28	40.825		
6,500.00	5,466.64	5,420.64	5,420.64	67.59	93.63	95.03	-4,823.42	4,900.72	6,468.48	6,307.57	160.91	40.199		
6,600.00	5,544.76	5,501.24	5,498.76	68.92	95.04	95.46	-4,823.42	4,900.72	6,475.77	6,312.19	163.58	39.588		
6,700.00	5,622.88	5,576.88	5,576.88	70.25	96.36	95.89	-4,823.42	4,900.72	6,483.65	6,317.50	166.15	39.022		
6,800.00	5,701.00	5,655.00	5,655.00	71.58	97.72	96.32	-4,823.42	4,900.72	6,492.12	6,323.36	168.76	38.469		
6,900.00	5,779.11	5,733.11	5,733.11	72.91	99.08	96.75	-4,823.42	4,900.72	6,501.18	6,329.82	171.36	37.938		
7,000.00	5,857.23	5,811.23	5,811.23	74.23	100.45	97.18	-4,823.42	4,900.72	6,510.83	6,336.87	173.96	37.428		
7,100.00	5,935.35	5,889.35	5,889.35	75.56	101.81	97.61	-4,823.42	4,900.72	6,521.06	6,344.52	176.54	36.938		
7,200.00	6,013.46	5,967.46	5,967.46	76.89	103.17	98.03	-4,823.42	4,900.72	6,531.87	6,352.75	179.11	36.467		
7,300.00	6,091.58	6,045.58	6,045.58	78.22	104.54	98.46	-4,823.42	4,900.72	6,543.26	6,361.58	181.68	36.015		
7,400.00	6,169.70	6,123.70	6,123.70	79.55	105.90	98.88	-4,823.42	4,900.72	6,555.22	6,370.98	184.24	35.580		
7,500.00	6,247.81	6,201.81	6,201.81	80.88	107.26	99.31	-4,823.42	4,900.72	6,567.76	6,380.97	186.79	35.162		
7,600.00	6,325.93	6,279.93	6,279.93	82.21	108.63	99.73	-4,823.42	4,900.72	6,580.86	6,391.54	189.33	34.760		
7,700.00	6,404.05	6,358.05	6,358.05	83.54	109.99	100.15	-4,823.42	4,900.72	6,594.53	6,402.68	191.85	34.373		
7,800.00	6,482.17	6,436.17	6,436.17	84.87	111.35	100.57	-4,823.42	4,900.72	6,608.76	6,414.39	194.37	34.000		
7,900.00	6,560.28	6,514.28	6,514.28	86.20	112.72	100.99	-4,823.42	4,900.72	6,623.55	6,426.67	196.88	33.642		
8,000.00	6,638.40	6,607.60	6,592.40	87.53	114.35	101.41	-4,823.42	4,900.72	6,638.89	6,439.25	199.65	33.253		
8,100.00	6,716.52	6,670.52	6,670.52	88.86	115.45	101.83	-4,823.42	4,900.72	6,654.78	6,452.92	201.87	32.966		
8,200.00	6,794.63	6,748.63	6,748.63	90.20	116.81	102.24	-4,823.42	4,900.72	6,671.22	6,466.88	204.35	32.647		
8,300.00	6,872.75	6,826.75	6,826.75	91.53	118.17	102.66	-4,823.42	4,900.72	6,688.21	6,481.39	206.81	32.339		
8,400.00	6,950.87	6,904.87	6,904.87	92.86	119.54	103.07	-4,823.42	4,900.72	6,705.73	6,496.45	209.27	32.043		
8,500.00	7,028.98	6,982.98	6,982.98	94.19	120.90	103.48	-4,823.42	4,900.72	6,723.78	6,512.06	211.72	31.758		
8,600.00	7,107.10	7,061.10	7,061.10	95.52	122.26	103.89	-4,823.42	4,900.72	6,742.36	6,528.21	214.15	31.484		
8,647.91	7,144.53	7,101.47	7,098.53	96.16	122.97	104.09	-4,823.42	4,900.72	6,751.45	6,536.09	215.37	31.348		
8,650.00	7,146.16	7,100.16	7,100.16	96.18	122.94	103.86	-4,823.42	4,900.72	6,751.85	6,536.48	215.37	31.350		
8,700.00	7,185.66	7,139.66	7,139.66	96.84	123.63	97.96	-4,823.42	4,900.72	6,759.15	6,542.56	216.59	31.207		
8,750.00	7,225.78	7,179.78	7,179.78	97.47	124.33	91.58	-4,823.42	4,900.72	6,762.26	6,544.44	217.82	31.045		
8,800.00	7,266.21	7,220.21	7,220.21	98.08	125.04	84.92	-4,823.42	4,900.72	6,761.16	6,542.11	219.05	30.865		
8,850.00	7,306.63	7,260.63	7,260.63	98.64	125.74	78.22	-4,823.42	4,900.72	6,755.85	6,535.58	220.27	30.671		
8,900.00	7,346.75	7,300.75	7,300.75	99.17	126.44	71.72	-4,823.42	4,900.72	6,746.37	6,524.90	221.47	30.462		
8,950.00	7,386.25	7,340.25	7,340.25	99.64	127.13	65.63	-4,823.42	4,900.72	6,732.77	6,510.15	222.62	30.243		
9,000.00	7,424.84	7,378.84	7,378.84	100.06	127.81	60.07	-4,823.42	4,900.72	6,715.16	6,491.42	223.74	30.014		
9,050.00	7,462.22	7,416.22	7,416.22	100.42	128.46	55.09	-4,823.42	4,900.72	6,693.64	6,468.85	224.80	29.777		
9,100.00	7,498.11	7,452.11	7,452.11	100.74	129.09	50.69	-4,823.42	4,900.72	6,668.38	6,442.58	225.79	29.533		
9,150.00	7,532.24	7,486.24	7,486.24	100.99	129.68	46.84	-4,823.42	4,900.72	6,639.54	6,412.82	226.72	29.285		
9,200.00	7,564.34	7,518.34	7,518.34	101.19	130.24	43.47	-4,823.42	4,900.72	6,607.33	6,379.75	227.58	29.033		
9,250.00	7,594.17	7,548.17	7,548.17	101.34	130.76	40.50	-4,823.42	4,900.72	6,571.99	6,343.63	228.36	28.780		
9,300.00	7,621.50	7,575.50	7,575.50	101.45	131.24	37.84	-4,823.42	4,900.72	6,533.75	6,304.70	229.05	28.525		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,600.13	7,600.13	101.50	131.67	35.40	-4,823.42	4,900.72	6,492.91	6,263.24	229.66	28.271		
9,400.00	7,667.87	7,621.87	7,621.87	101.51	132.05	33.05	-4,823.42	4,900.72	6,449.75	6,219.55	230.19	28.019		
9,450.00	7,686.55	7,640.55	7,640.55	101.48	132.38	30.59	-4,823.42	4,900.72	6,404.58	6,173.95	230.63	27.770		
9,500.00	7,702.04	7,656.04	7,656.04	101.42	132.65	27.66	-4,823.42	4,900.72	6,357.76	6,126.78	230.98	27.525		
9,550.00	7,714.20	7,668.20	7,668.20	101.33	132.86	23.42	-4,823.42	4,900.72	6,309.61	6,078.36	231.24	27.286		
9,600.00	7,722.96	7,676.96	7,676.96	101.20	133.01	15.18	-4,823.42	4,900.72	6,260.50	6,029.07	231.42	27.052		
9,650.00	7,728.24	7,682.24	7,682.24	101.06	133.10	-10.95	-4,823.42	4,900.72	6,210.79	5,979.28	231.52	26.827		
9,699.97	7,730.00	7,684.00	7,684.00	100.90	133.13	-90.00	-4,823.42	4,900.72	6,160.91	5,929.38	231.53	26.610		
9,800.00	7,730.00	7,684.00	7,684.00	100.56	133.13	-90.00	-4,823.42	4,900.72	6,061.10	5,829.63	231.47	26.185		
9,900.00	7,730.00	7,684.00	7,684.00	100.24	133.13	-90.00	-4,823.42	4,900.72	5,961.32	5,729.91	231.41	25.761		
10,000.00	7,730.00	7,684.00	7,684.00	99.93	133.13	-90.00	-4,823.42	4,900.72	5,861.55	5,630.20	231.35	25.336		
10,100.00	7,730.00	7,684.00	7,684.00	99.64	133.13	-90.00	-4,823.42	4,900.72	5,761.79	5,530.50	231.29	24.911		
10,200.00	7,730.00	7,684.00	7,684.00	99.36	133.13	-90.00	-4,823.42	4,900.72	5,662.04	5,430.81	231.23	24.487		
10,300.00	7,730.00	7,684.00	7,684.00	99.09	133.13	-90.00	-4,823.42	4,900.72	5,562.29	5,331.13	231.16	24.062		
10,400.00	7,730.00	7,684.00	7,684.00	98.84	133.13	-90.00	-4,823.42	4,900.72	5,462.56	5,231.47	231.10	23.638		
10,500.00	7,730.00	7,684.00	7,684.00	98.61	133.13	-90.00	-4,823.42	4,900.72	5,362.84	5,131.81	231.03	23.213		
10,600.00	7,730.00	7,684.00	7,684.00	98.39	133.13	-90.00	-4,823.42	4,900.72	5,263.12	5,032.17	230.95	22.789		
10,700.00	7,730.00	7,684.00	7,684.00	98.18	133.13	-90.00	-4,823.42	4,900.72	5,163.42	4,932.54	230.88	22.364		
10,800.00	7,730.00	7,684.00	7,684.00	97.99	133.13	-90.00	-4,823.42	4,900.72	5,063.73	4,832.93	230.80	21.940		
10,900.00	7,730.00	7,684.00	7,684.00	97.81	133.13	-90.00	-4,823.42	4,900.72	4,964.05	4,733.33	230.72	21.515		
11,000.00	7,730.00	7,684.00	7,684.00	97.64	133.13	-90.00	-4,823.42	4,900.72	4,864.39	4,633.74	230.64	21.091		
11,100.00	7,730.00	7,684.00	7,684.00	97.50	133.13	-90.00	-4,823.42	4,900.72	4,764.73	4,534.18	230.55	20.666		
11,200.00	7,730.00	7,684.00	7,684.00	97.36	133.13	-90.00	-4,823.42	4,900.72	4,665.10	4,434.63	230.47	20.242		
11,300.00	7,730.00	7,684.00	7,684.00	97.24	133.13	-90.00	-4,823.42	4,900.72	4,565.48	4,335.11	230.37	19.818		
11,400.00	7,730.00	7,684.00	7,684.00	97.14	133.13	-90.00	-4,823.42	4,900.72	4,465.87	4,235.60	230.28	19.394		
11,500.00	7,730.00	7,684.00	7,684.00	97.06	133.13	-90.00	-4,823.42	4,900.72	4,366.29	4,136.11	230.17	18.970		
11,600.00	7,730.00	7,684.00	7,684.00	96.98	133.13	-90.00	-4,823.42	4,900.72	4,266.72	4,036.65	230.07	18.545		
11,700.00	7,730.00	7,684.00	7,684.00	96.93	133.13	-90.00	-4,823.42	4,900.72	4,167.18	3,937.22	229.96	18.122		
11,800.00	7,730.00	7,684.00	7,684.00	96.90	133.13	-90.00	-4,823.42	4,900.72	4,067.65	3,837.81	229.84	17.698		
11,900.00	7,730.00	7,684.00	7,684.00	96.88	133.13	-90.00	-4,823.42	4,900.72	3,968.16	3,738.44	229.72	17.274		
12,000.00	7,730.00	7,684.00	7,684.00	96.88	133.13	-90.00	-4,823.42	4,900.72	3,868.68	3,639.09	229.59	16.850		
12,100.00	7,730.00	7,684.00	7,684.00	96.90	133.13	-90.00	-4,823.42	4,900.72	3,769.24	3,539.78	229.46	16.427		
12,200.00	7,730.00	7,684.00	7,684.00	96.94	133.13	-90.00	-4,823.42	4,900.72	3,669.82	3,440.51	229.32	16.003		
12,300.00	7,730.00	7,684.00	7,684.00	97.00	133.13	-90.00	-4,823.42	4,900.72	3,570.44	3,341.27	229.17	15.580		
12,400.00	7,730.00	7,684.00	7,684.00	97.08	133.13	-90.00	-4,823.42	4,900.72	3,471.09	3,242.08	229.01	15.157		
12,500.00	7,730.00	7,684.00	7,684.00	97.18	133.13	-90.00	-4,823.42	4,900.72	3,371.78	3,142.94	228.84	14.734		
12,600.00	7,730.00	7,684.00	7,684.00	97.31	133.13	-90.00	-4,823.42	4,900.72	3,272.52	3,043.85	228.67	14.311		
12,700.00	7,730.00	7,684.00	7,684.00	97.46	133.13	-90.00	-4,823.42	4,900.72	3,173.30	2,944.82	228.48	13.889		
12,800.00	7,730.00	7,684.00	7,684.00	97.64	133.13	-90.00	-4,823.42	4,900.72	3,074.13	2,845.85	228.28	13.467		
12,900.00	7,730.00	7,684.00	7,684.00	97.85	133.13	-90.00	-4,823.42	4,900.72	2,975.02	2,746.95	228.07	13.045		
13,000.00	7,730.00	7,684.00	7,684.00	98.09	133.13	-90.00	-4,823.42	4,900.72	2,875.96	2,648.13	227.84	12.623		
13,100.00	7,730.00	7,684.00	7,684.00	98.35	133.13	-90.00	-4,823.42	4,900.72	2,776.98	2,549.38	227.59	12.201		
13,200.00	7,730.00	7,684.00	7,684.00	98.65	133.13	-90.00	-4,823.42	4,900.72	2,678.07	2,450.74	227.33	11.780		
13,300.00	7,730.00	7,684.00	7,684.00	98.98	133.13	-90.00	-4,823.42	4,900.72	2,579.24	2,352.19	227.05	11.360		
13,400.00	7,730.00	7,684.00	7,684.00	99.34	133.13	-90.00	-4,823.42	4,900.72	2,480.51	2,253.77	226.75	10.940		
13,500.00	7,730.00	7,684.00	7,684.00	99.74	133.13	-90.00	-4,823.42	4,900.72	2,381.89	2,155.47	226.42	10.520		
13,600.00	7,730.00	7,684.00	7,684.00	100.17	133.13	-90.00	-4,823.42	4,900.72	2,283.38	2,057.32	226.06	10.101		
13,700.00	7,730.00	7,684.00	7,684.00	100.65	133.13	-90.00	-4,823.42	4,900.72	2,185.01	1,959.34	225.67	9.682		
13,800.00	7,730.00	7,684.00	7,684.00	101.16	133.13	-90.00	-4,823.42	4,900.72	2,086.80	1,861.55	225.25	9.265		
13,900.00	7,730.00	7,684.00	7,684.00	101.71	133.13	-90.00	-4,823.42	4,900.72	1,988.76	1,763.98	224.78	8.848		
14,000.00	7,730.00	7,684.00	7,684.00	102.30	133.13	-90.00	-4,823.42	4,900.72	1,890.93	1,666.66	224.27	8.432		
14,100.00	7,730.00	7,684.00	7,684.00	102.93	133.13	-90.00	-4,823.42	4,900.72	1,793.34	1,569.64	223.70	8.017		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,684.00	7,684.00	103.60	133.13	-90.00	-4,823.42	4,900.72	1,696.03	1,472.95	223.08	7.603		
14,300.00	7,730.00	7,684.00	7,684.00	104.32	133.13	-90.00	-4,823.42	4,900.72	1,599.05	1,376.67	222.38	7.191		
14,400.00	7,730.00	7,684.00	7,684.00	105.07	133.13	-90.00	-4,823.42	4,900.72	1,502.47	1,280.87	221.60	6.780		
14,500.00	7,730.00	7,684.00	7,684.00	105.86	133.13	-90.00	-4,823.42	4,900.72	1,406.36	1,185.64	220.72	6.372		
14,600.00	7,730.00	7,684.00	7,684.00	106.70	133.13	-90.00	-4,823.42	4,900.72	1,310.84	1,091.10	219.74	5.966		
14,700.00	7,730.00	7,684.00	7,684.00	107.57	133.13	-90.00	-4,823.42	4,900.72	1,216.04	997.42	218.62	5.562		
14,800.00	7,730.00	7,684.00	7,684.00	108.48	133.13	-90.00	-4,823.42	4,900.72	1,122.14	904.78	217.36	5.163		
14,900.00	7,730.00	7,684.00	7,684.00	109.43	133.13	-90.00	-4,823.42	4,900.72	1,029.39	813.45	215.93	4.767		
15,000.00	7,730.00	7,684.00	7,684.00	110.42	133.13	-90.00	-4,823.42	4,900.72	938.13	723.79	214.34	4.377		
15,100.00	7,730.00	7,684.00	7,684.00	111.43	133.13	-90.00	-4,823.42	4,900.72	848.84	636.25	212.59	3.993		
15,200.00	7,730.00	7,684.00	7,684.00	112.49	133.13	-90.00	-4,823.42	4,900.72	762.22	551.46	210.76	3.617		
15,300.00	7,730.00	7,684.00	7,684.00	113.57	133.13	-90.00	-4,823.42	4,900.72	679.28	470.23	209.05	3.249		
15,400.00	7,730.00	7,684.00	7,684.00	114.68	133.13	-90.00	-4,823.42	4,900.72	601.55	393.61	207.94	2.893		
15,500.00	7,730.00	7,684.00	7,684.00	115.82	133.13	-90.00	-4,823.42	4,900.72	531.33	322.97	208.36	2.550		
15,600.00	7,730.00	7,684.00	7,684.00	116.99	133.13	-90.00	-4,823.42	4,900.72	471.97	260.20	211.77	2.229		
15,700.00	7,730.00	7,684.00	7,684.00	118.19	133.13	-90.00	-4,823.42	4,900.72	428.02	208.59	219.43	1.951		
15,800.00	7,730.00	7,684.00	7,684.00	119.41	133.13	-90.00	-4,823.42	4,900.72	404.53	173.80	230.73	1.753		
15,847.77	7,730.00	7,684.00	7,684.00	120.00	133.13	-90.00	-4,823.42	4,900.72	401.70	165.18	236.53	1.698 CC		
15,900.00	7,730.00	7,684.00	7,684.00	120.65	133.13	-90.00	-4,823.42	4,900.72	405.08	162.64	242.45	1.671 ES, SF		
16,000.00	7,730.00	7,684.00	7,684.00	121.91	133.13	-90.00	-4,823.42	4,900.72	429.58	178.42	251.16	1.710		
16,100.00	7,730.00	7,684.00	7,684.00	123.20	133.13	-90.00	-4,823.42	4,900.72	474.33	218.48	255.85	1.854		
16,200.00	7,730.00	7,684.00	7,684.00	124.50	133.13	-90.00	-4,823.42	4,900.72	534.26	276.77	257.49	2.075		
16,300.00	7,730.00	7,684.00	7,684.00	125.82	133.13	-90.00	-4,823.42	4,900.72	604.88	347.50	257.38	2.350		
16,400.00	7,730.00	7,684.00	7,684.00	127.16	133.13	-90.00	-4,823.42	4,900.72	682.88	426.44	256.44	2.663		
16,500.00	7,730.00	7,684.00	7,684.00	128.52	133.13	-90.00	-4,823.42	4,900.72	766.01	510.82	255.19	3.002		
16,600.00	7,730.00	7,684.00	7,684.00	129.89	133.13	-90.00	-4,823.42	4,900.72	852.77	598.90	253.87	3.359		
16,700.00	7,730.00	7,684.00	7,684.00	131.27	133.13	-90.00	-4,823.42	4,900.72	942.16	689.56	252.60	3.730		
16,800.00	7,730.00	7,684.00	7,684.00	132.67	133.13	-90.00	-4,823.42	4,900.72	1,033.49	782.06	251.43	4.110		
16,900.00	7,730.00	7,684.00	7,684.00	134.09	133.13	-90.00	-4,823.42	4,900.72	1,126.30	875.93	250.37	4.499		
17,000.00	7,730.00	7,684.00	7,684.00	135.51	133.13	-90.00	-4,823.42	4,900.72	1,220.25	970.84	249.41	4.893		
17,100.00	7,730.00	7,684.00	7,684.00	136.95	133.13	-90.00	-4,823.42	4,900.72	1,315.08	1,066.53	248.55	5.291		
17,200.00	7,730.00	7,684.00	7,684.00	138.40	133.13	-90.00	-4,823.42	4,900.72	1,410.63	1,162.85	247.78	5.693		
17,300.00	7,730.00	7,684.00	7,684.00	139.85	133.13	-90.00	-4,823.42	4,900.72	1,506.76	1,259.68	247.09	6.098		
17,400.00	7,730.00	7,684.00	7,684.00	141.32	133.13	-90.00	-4,823.42	4,900.72	1,603.37	1,356.90	246.47	6.505		
17,500.00	7,730.00	7,684.00	7,684.00	142.80	133.13	-90.00	-4,823.42	4,900.72	1,700.36	1,454.46	245.90	6.915		
17,600.00	7,730.00	7,684.00	7,684.00	144.28	133.13	-90.00	-4,823.42	4,900.72	1,797.69	1,552.29	245.39	7.326		
17,700.00	7,730.00	7,684.00	7,684.00	145.78	133.13	-90.00	-4,823.42	4,900.72	1,895.29	1,650.36	244.93	7.738		
17,800.00	7,730.00	7,684.00	7,684.00	147.28	133.13	-90.00	-4,823.42	4,900.72	1,993.13	1,748.62	244.51	8.151		
17,900.00	7,730.00	7,684.00	7,684.00	148.79	133.13	-90.00	-4,823.42	4,900.72	2,091.17	1,847.05	244.13	8.566		
18,000.00	7,730.00	7,684.00	7,684.00	150.31	133.13	-90.00	-4,823.42	4,900.72	2,189.40	1,945.62	243.78	8.981		
18,100.00	7,730.00	7,684.00	7,684.00	151.83	133.13	-90.00	-4,823.42	4,900.72	2,287.77	2,044.32	243.45	9.397		
18,200.00	7,730.00	7,684.00	7,684.00	153.37	133.13	-90.00	-4,823.42	4,900.72	2,386.28	2,143.13	243.16	9.814		
18,300.00	7,730.00	7,684.00	7,684.00	154.90	133.13	-90.00	-4,823.42	4,900.72	2,484.91	2,242.03	242.88	10.231		
18,400.00	7,730.00	7,684.00	7,684.00	156.45	133.13	-90.00	-4,823.42	4,900.72	2,583.65	2,341.02	242.63	10.648		
18,500.00	7,730.00	7,684.00	7,684.00	158.00	133.13	-90.00	-4,823.42	4,900.72	2,682.48	2,440.08	242.40	11.066		
18,600.00	7,730.00	7,684.00	7,684.00	159.55	133.13	-90.00	-4,823.42	4,900.72	2,781.39	2,539.21	242.18	11.485		
18,700.00	7,730.00	7,684.00	7,684.00	161.11	133.13	-90.00	-4,823.42	4,900.72	2,880.38	2,638.40	241.98	11.903		
18,800.00	7,730.00	7,684.00	7,684.00	162.68	133.13	-90.00	-4,823.42	4,900.72	2,979.43	2,737.64	241.79	12.322		
18,900.00	7,730.00	7,684.00	7,684.00	164.25	133.13	-90.00	-4,823.42	4,900.72	3,078.55	2,836.93	241.62	12.741		
19,000.00	7,730.00	7,684.00	7,684.00	165.83	133.13	-90.00	-4,823.42	4,900.72	3,177.72	2,936.27	241.45	13.161		
19,100.00	7,730.00	7,684.00	7,684.00	167.41	133.13	-90.00	-4,823.42	4,900.72	3,276.94	3,035.64	241.30	13.580		
19,200.00	7,730.00	7,684.00	7,684.00	168.99	133.13	-90.00	-4,823.42	4,900.72	3,376.21	3,135.05	241.16	14.000		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - EXIST VERT SHANNON ROBERTS 26-5 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,684.00	7,684.00	170.58	133.13	-90.00	-4,823.42	4,900.72	3,475.52	3,234.50	241.03	14.420	
19,400.00	7,730.00	7,684.00	7,684.00	172.17	133.13	-90.00	-4,823.42	4,900.72	3,574.87	3,333.97	240.90	14.840	
19,430.54	7,730.00	7,684.00	7,684.00	172.66	133.13	-90.00	-4,823.42	4,900.72	3,605.21	3,364.35	240.86	14.968	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	143.00	-4,087.85	3,080.26	5,118.49					
100.00	100.00	79.00	79.00	0.13	0.61	143.00	-4,087.85	3,080.26	5,118.45	5,117.70	0.75	6,842.862		
200.00	200.00	179.00	179.00	0.49	2.16	143.00	-4,087.85	3,080.26	5,118.45	5,115.80	2.65	1,932.671		
300.00	300.00	279.00	279.00	0.85	3.90	143.00	-4,087.85	3,080.26	5,118.45	5,113.70	4.75	1,077.073		
400.00	400.00	379.00	379.00	1.21	5.65	143.00	-4,087.85	3,080.26	5,118.45	5,111.59	6.86	746.567		
500.00	500.00	479.00	479.00	1.57	7.39	143.00	-4,087.85	3,080.26	5,118.45	5,109.49	8.96	571.269		
600.00	599.98	578.98	578.98	1.92	9.14	77.68	-4,087.85	3,080.26	5,118.08	5,107.02	11.06	462.811		
700.00	699.84	678.84	678.84	2.28	10.88	77.76	-4,087.85	3,080.26	5,116.96	5,103.81	13.16	388.968		
800.00	799.45	778.45	778.45	2.64	12.62	77.89	-4,087.85	3,080.26	5,115.12	5,099.86	15.26	335.286		
900.00	898.70	877.70	877.70	3.02	14.35	78.07	-4,087.85	3,080.26	5,112.56	5,095.20	17.36	294.442		
1,000.00	997.47	976.47	976.47	3.41	16.07	78.30	-4,087.85	3,080.26	5,109.32	5,089.84	19.48	262.268		
1,100.00	1,095.62	1,074.62	1,074.62	3.84	17.79	78.58	-4,087.85	3,080.26	5,105.43	5,083.81	21.61	236.218		
1,200.00	1,193.06	1,172.06	1,172.06	4.29	19.49	78.91	-4,087.85	3,080.26	5,100.93	5,077.16	23.76	214.657		
1,300.00	1,289.64	1,268.64	1,268.64	4.78	21.17	79.29	-4,087.85	3,080.26	5,095.87	5,069.93	25.94	196.485		
1,400.00	1,385.27	1,364.27	1,364.27	5.32	22.84	79.71	-4,087.85	3,080.26	5,090.30	5,062.17	28.13	180.940		
1,500.00	1,479.82	1,458.82	1,458.82	5.90	24.49	80.17	-4,087.85	3,080.26	5,084.30	5,053.94	30.36	167.473		
1,600.00	1,573.17	1,552.17	1,552.17	6.53	26.12	80.67	-4,087.85	3,080.26	5,077.92	5,045.31	32.62	155.683		
1,700.00	1,665.21	1,644.21	1,644.21	7.23	27.73	81.20	-4,087.85	3,080.26	5,071.25	5,036.34	34.91	145.268		
1,800.00	1,755.84	1,734.84	1,734.84	7.98	29.31	81.77	-4,087.85	3,080.26	5,064.36	5,027.13	37.24	135.999		
1,900.00	1,844.94	1,823.94	1,823.94	8.80	30.87	82.36	-4,087.85	3,080.26	5,057.35	5,017.74	39.60	127.696		
2,000.00	1,932.39	1,911.39	1,911.39	9.68	32.39	82.98	-4,087.85	3,080.26	5,050.30	5,008.29	42.01	120.217		
2,100.00	2,018.11	2,002.89	1,997.11	10.63	33.99	83.62	-4,087.85	3,080.26	5,043.31	4,998.75	44.56	113.192		
2,200.00	2,101.97	2,080.97	2,080.97	11.65	35.35	84.27	-4,087.85	3,080.26	5,036.47	4,989.54	46.94	107.299		
2,300.00	2,183.88	2,162.88	2,162.88	12.74	36.78	84.94	-4,087.85	3,080.26	5,029.91	4,980.45	49.46	101.692		
2,400.00	2,263.74	2,242.74	2,242.74	13.90	38.17	85.61	-4,087.85	3,080.26	5,023.71	4,971.69	52.02	96.565		
2,431.61	2,288.54	2,267.54	2,267.54	14.29	38.61	85.82	-4,087.85	3,080.26	5,021.85	4,969.01	52.84	95.038		
2,500.00	2,341.97	2,320.97	2,320.97	15.13	39.54	86.20	-4,087.85	3,080.26	5,018.05	4,963.43	54.62	91.876		
2,600.00	2,420.08	2,400.92	2,399.08	16.37	40.94	86.76	-4,087.85	3,080.26	5,013.15	4,955.88	57.26	87.544		
2,700.00	2,498.20	2,477.20	2,477.20	17.63	42.27	87.31	-4,087.85	3,080.26	5,009.02	4,949.16	59.86	83.678		
2,800.00	2,576.32	2,555.32	2,555.32	18.89	43.63	87.87	-4,087.85	3,080.26	5,005.66	4,943.17	62.50	80.092		
2,900.00	2,654.43	2,633.43	2,633.43	20.17	44.99	88.43	-4,087.85	3,080.26	5,003.09	4,937.94	65.15	76.798		
3,000.00	2,732.55	2,711.55	2,711.55	21.45	46.36	88.99	-4,087.85	3,080.26	5,001.29	4,933.49	67.80	73.766		
3,100.00	2,810.67	2,789.67	2,789.67	22.74	47.72	89.55	-4,087.85	3,080.26	5,000.27	4,929.81	70.46	70.969		
3,180.93	2,873.88	2,852.88	2,852.88	23.79	48.82	90.00	-4,087.85	3,080.26	5,000.01	4,927.40	72.61	68.862		
3,200.00	2,888.78	2,867.78	2,867.78	24.03	49.08	90.11	-4,087.85	3,080.26	5,000.03	4,926.91	73.12	68.384		
3,300.00	2,966.90	2,945.90	2,945.90	25.33	50.45	90.67	-4,087.85	3,080.26	5,000.56	4,924.79	75.78	65.989		
3,400.00	3,045.02	3,024.02	3,024.02	26.63	51.81	91.22	-4,087.85	3,080.26	5,001.88	4,923.44	78.44	63.767		
3,500.00	3,123.13	3,102.13	3,102.13	27.94	53.17	91.78	-4,087.85	3,080.26	5,003.98	4,922.88	81.10	61.700		
3,600.00	3,201.25	3,180.25	3,180.25	29.24	54.54	92.34	-4,087.85	3,080.26	5,006.85	4,923.09	83.76	59.776		
3,700.00	3,279.37	3,258.37	3,258.37	30.55	55.90	92.90	-4,087.85	3,080.26	5,010.50	4,924.09	86.42	57.980		
3,800.00	3,357.49	3,336.49	3,336.49	31.86	57.26	93.46	-4,087.85	3,080.26	5,014.93	4,925.86	89.07	56.303		
3,900.00	3,435.60	3,414.60	3,414.60	33.18	58.63	94.01	-4,087.85	3,080.26	5,020.13	4,928.41	91.72	54.733		
4,000.00	3,513.72	3,502.72	3,492.72	34.49	60.24	94.57	-4,087.85	3,080.26	5,026.09	4,931.47	94.62	53.120		
4,100.00	3,591.84	3,570.84	3,570.84	35.81	61.35	95.12	-4,087.85	3,080.26	5,032.83	4,935.83	97.00	51.883		
4,200.00	3,669.95	3,648.95	3,648.95	37.12	62.72	95.68	-4,087.85	3,080.26	5,040.33	4,940.69	99.64	50.588		
4,300.00	3,748.07	3,727.07	3,727.07	38.44	64.08	96.23	-4,087.85	3,080.26	5,048.59	4,946.33	102.26	49.370		
4,400.00	3,826.19	3,805.19	3,805.19	39.76	65.44	96.78	-4,087.85	3,080.26	5,057.61	4,952.73	104.88	48.223		
4,500.00	3,904.30	3,883.30	3,883.30	41.08	66.81	97.33	-4,087.85	3,080.26	5,067.38	4,959.89	107.49	47.143		
4,600.00	3,982.42	3,961.42	3,961.42	42.40	68.17	97.88	-4,087.85	3,080.26	5,077.90	4,967.80	110.09	46.124		
4,700.00	4,060.54	4,039.54	4,039.54	43.72	69.53	98.43	-4,087.85	3,080.26	5,089.16	4,976.47	112.69	45.162		
4,800.00	4,138.66	4,117.66	4,117.66	45.05	70.90	98.97	-4,087.85	3,080.26	5,101.16	4,985.89	115.27	44.253		
4,900.00	4,216.77	4,204.23	4,195.77	46.37	72.41	99.52	-4,087.85	3,080.26	5,113.90	4,995.91	117.99	43.340		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,273.89	4,273.89	47.69	73.62	100.06	-4,087.85	3,080.26	5,127.37	5,006.96	120.41	42.582		
5,100.00	4,373.01	4,352.01	4,352.01	49.02	74.99	100.60	-4,087.85	3,080.26	5,141.56	5,018.59	122.97	41.813		
5,200.00	4,451.12	4,430.12	4,430.12	50.34	76.35	101.14	-4,087.85	3,080.26	5,156.46	5,030.95	125.51	41.084		
5,300.00	4,529.24	4,508.24	4,508.24	51.67	77.71	101.68	-4,087.85	3,080.26	5,172.08	5,044.03	128.04	40.393		
5,400.00	4,607.36	4,586.36	4,586.36	52.99	79.08	102.21	-4,087.85	3,080.26	5,188.40	5,057.83	130.56	39.738		
5,500.00	4,685.47	4,664.47	4,664.47	54.32	80.44	102.75	-4,087.85	3,080.26	5,205.42	5,072.34	133.08	39.116		
5,600.00	4,763.59	4,742.59	4,742.59	55.64	81.81	103.28	-4,087.85	3,080.26	5,223.13	5,087.55	135.57	38.526		
5,700.00	4,841.71	4,820.71	4,820.71	56.97	83.17	103.80	-4,087.85	3,080.26	5,241.52	5,103.46	138.06	37.966		
5,800.00	4,919.83	4,901.17	4,898.83	58.30	84.57	104.33	-4,087.85	3,080.26	5,260.59	5,120.01	140.58	37.422		
5,900.00	4,997.94	4,976.94	4,976.94	59.62	85.90	104.85	-4,087.85	3,080.26	5,280.33	5,137.33	143.00	36.926		
6,000.00	5,076.06	5,055.06	5,055.06	60.95	87.26	105.37	-4,087.85	3,080.26	5,300.73	5,155.28	145.45	36.445		
6,100.00	5,154.18	5,133.18	5,133.18	62.28	88.62	105.89	-4,087.85	3,080.26	5,321.78	5,173.90	147.88	35.986		
6,200.00	5,232.29	5,211.29	5,211.29	63.61	89.99	106.41	-4,087.85	3,080.26	5,343.48	5,193.18	150.31	35.550		
6,300.00	5,310.41	5,289.41	5,289.41	64.93	91.35	106.92	-4,087.85	3,080.26	5,365.83	5,213.11	152.72	35.135		
6,400.00	5,388.53	5,367.53	5,367.53	66.26	92.71	107.43	-4,087.85	3,080.26	5,388.80	5,233.68	155.12	34.740		
6,500.00	5,466.64	5,445.64	5,445.64	67.59	94.08	107.94	-4,087.85	3,080.26	5,412.39	5,254.89	157.50	34.364		
6,600.00	5,544.76	5,523.76	5,523.76	68.92	95.44	108.44	-4,087.85	3,080.26	5,436.60	5,276.72	159.88	34.005		
6,700.00	5,622.88	5,601.88	5,601.88	70.25	96.80	108.94	-4,087.85	3,080.26	5,461.41	5,299.18	162.23	33.664		
6,800.00	5,701.00	5,680.00	5,680.00	71.58	98.17	109.44	-4,087.85	3,080.26	5,486.83	5,322.24	164.58	33.338		
6,900.00	5,779.11	5,758.11	5,758.11	72.91	99.53	109.94	-4,087.85	3,080.26	5,512.83	5,345.91	166.92	33.028		
7,000.00	5,857.23	5,836.23	5,836.23	74.23	100.89	110.43	-4,087.85	3,080.26	5,539.41	5,370.18	169.24	32.732		
7,100.00	5,935.35	5,914.35	5,914.35	75.56	102.26	110.92	-4,087.85	3,080.26	5,566.57	5,395.03	171.54	32.450		
7,200.00	6,013.46	6,007.54	5,992.46	76.89	103.88	111.41	-4,087.85	3,080.26	5,594.29	5,420.19	174.10	32.132		
7,300.00	6,091.58	6,070.58	6,070.58	78.22	104.98	111.89	-4,087.85	3,080.26	5,622.57	5,446.45	176.12	31.924		
7,400.00	6,169.70	6,148.70	6,148.70	79.55	106.35	112.37	-4,087.85	3,080.26	5,651.40	5,473.01	178.39	31.680		
7,500.00	6,247.81	6,226.81	6,226.81	80.88	107.71	112.84	-4,087.85	3,080.26	5,680.77	5,500.12	180.65	31.447		
7,600.00	6,325.93	6,304.93	6,304.93	82.21	109.07	113.32	-4,087.85	3,080.26	5,710.67	5,527.77	182.89	31.224		
7,700.00	6,404.05	6,383.05	6,383.05	83.54	110.44	113.79	-4,087.85	3,080.26	5,741.09	5,555.96	185.13	31.012		
7,800.00	6,482.17	6,461.17	6,461.17	84.87	111.80	114.25	-4,087.85	3,080.26	5,772.02	5,584.68	187.35	30.809		
7,900.00	6,560.28	6,539.28	6,539.28	86.20	113.16	114.72	-4,087.85	3,080.26	5,803.47	5,613.91	189.55	30.616		
8,000.00	6,638.40	6,617.40	6,617.40	87.53	114.53	115.18	-4,087.85	3,080.26	5,835.41	5,643.66	191.75	30.432		
8,100.00	6,716.52	6,704.48	6,695.52	88.86	116.05	115.63	-4,087.85	3,080.26	5,867.84	5,673.75	194.09	30.233		
8,200.00	6,794.63	6,773.63	6,773.63	90.20	117.25	116.08	-4,087.85	3,080.26	5,900.76	5,704.65	196.11	30.090		
8,300.00	6,872.75	6,851.75	6,851.75	91.53	118.62	116.53	-4,087.85	3,080.26	5,934.15	5,735.88	198.27	29.930		
8,400.00	6,950.87	6,929.87	6,929.87	92.86	119.98	116.98	-4,087.85	3,080.26	5,968.00	5,767.59	200.42	29.778		
8,500.00	7,028.98	7,007.98	7,007.98	94.19	121.34	117.42	-4,087.85	3,080.26	6,002.32	5,799.76	202.56	29.633		
8,600.00	7,107.10	7,086.10	7,086.10	95.52	122.71	117.86	-4,087.85	3,080.26	6,037.08	5,832.40	204.68	29.495		
8,647.91	7,144.53	7,123.53	7,123.53	96.16	123.36	118.07	-4,087.85	3,080.26	6,053.89	5,848.20	205.70	29.431		
8,650.00	7,146.16	7,125.16	7,125.16	96.18	123.39	117.82	-4,087.85	3,080.26	6,054.63	5,848.88	205.74	29.428		
8,700.00	7,185.66	7,164.66	7,164.66	96.84	124.08	111.63	-4,087.85	3,080.26	6,070.07	5,863.26	206.82	29.350		
8,750.00	7,225.78	7,204.78	7,204.78	97.47	124.78	105.07	-4,087.85	3,080.26	6,081.49	5,873.57	207.91	29.250		
8,800.00	7,266.21	7,245.21	7,245.21	98.08	125.48	98.34	-4,087.85	3,080.26	6,088.79	5,879.76	209.02	29.130		
8,850.00	7,306.63	7,285.63	7,285.63	98.64	126.19	91.66	-4,087.85	3,080.26	6,091.93	5,881.80	210.13	28.991		
8,900.00	7,346.75	7,325.75	7,325.75	99.17	126.89	85.29	-4,087.85	3,080.26	6,090.91	5,879.68	211.23	28.835		
8,950.00	7,386.25	7,365.25	7,365.25	99.64	127.58	79.42	-4,087.85	3,080.26	6,085.73	5,873.42	212.31	28.664		
9,000.00	7,424.84	7,403.84	7,403.84	100.06	128.25	74.20	-4,087.85	3,080.26	6,076.45	5,863.09	213.36	28.480		
9,050.00	7,462.22	7,441.22	7,441.22	100.42	128.91	69.68	-4,087.85	3,080.26	6,063.12	5,848.76	214.37	28.284		
9,100.00	7,498.11	7,477.11	7,477.11	100.74	129.53	65.88	-4,087.85	3,080.26	6,045.86	5,830.54	215.33	28.078		
9,150.00	7,532.24	7,511.24	7,511.24	100.99	130.13	62.80	-4,087.85	3,080.26	6,024.79	5,808.56	216.23	27.863		
9,200.00	7,564.34	7,543.34	7,543.34	101.19	130.69	60.39	-4,087.85	3,080.26	6,000.06	5,782.99	217.07	27.641		
9,250.00	7,594.17	7,573.17	7,573.17	101.34	131.21	58.65	-4,087.85	3,080.26	5,971.85	5,754.01	217.84	27.413		
9,300.00	7,621.50	7,600.50	7,600.50	101.45	131.69	57.54	-4,087.85	3,080.26	5,940.37	5,721.82	218.55	27.181		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,625.13	7,625.13	101.50	132.12	57.10	-4,087.85	3,080.26	5,905.83	5,686.66	219.17	26.946		
9,400.00	7,667.87	7,646.87	7,646.87	101.51	132.49	57.36	-4,087.85	3,080.26	5,868.50	5,648.77	219.72	26.709		
9,450.00	7,686.55	7,665.55	7,665.55	101.48	132.82	58.43	-4,087.85	3,080.26	5,828.62	5,608.43	220.19	26.470		
9,500.00	7,702.04	7,681.04	7,681.04	101.42	133.09	60.50	-4,087.85	3,080.26	5,786.49	5,565.91	220.58	26.233		
9,550.00	7,714.20	7,706.80	7,693.20	101.33	133.54	63.90	-4,087.85	3,080.26	5,742.41	5,521.28	221.13	25.968		
9,600.00	7,722.96	7,701.96	7,701.96	101.20	133.46	69.20	-4,087.85	3,080.26	5,696.69	5,475.56	221.13	25.762		
9,650.00	7,728.24	7,707.24	7,707.24	101.06	133.55	77.39	-4,087.85	3,080.26	5,649.66	5,428.38	221.28	25.532		
9,699.97	7,730.00	7,709.00	7,709.00	100.90	133.58	90.00	-4,087.85	3,080.26	5,601.69	5,380.34	221.36	25.306		
9,800.00	7,730.00	7,709.00	7,709.00	100.56	133.58	90.00	-4,087.85	3,080.26	5,505.00	5,283.55	221.44	24.860		
9,900.00	7,730.00	7,709.00	7,709.00	100.24	133.58	90.00	-4,087.85	3,080.26	5,408.45	5,186.92	221.53	24.414		
10,000.00	7,730.00	7,709.00	7,709.00	99.93	133.58	90.00	-4,087.85	3,080.26	5,312.03	5,090.41	221.62	23.969		
10,100.00	7,730.00	7,709.00	7,709.00	99.64	133.58	90.00	-4,087.85	3,080.26	5,215.74	4,994.03	221.72	23.524		
10,200.00	7,730.00	7,709.00	7,709.00	99.36	133.58	90.00	-4,087.85	3,080.26	5,119.60	4,897.78	221.82	23.080		
10,300.00	7,730.00	7,709.00	7,709.00	99.09	133.58	90.00	-4,087.85	3,080.26	5,023.61	4,801.69	221.92	22.637		
10,400.00	7,730.00	7,709.00	7,709.00	98.84	133.58	90.00	-4,087.85	3,080.26	4,927.77	4,705.75	222.02	22.195		
10,500.00	7,730.00	7,709.00	7,709.00	98.61	133.58	90.00	-4,087.85	3,080.26	4,832.11	4,609.97	222.14	21.753		
10,600.00	7,730.00	7,709.00	7,709.00	98.39	133.58	90.00	-4,087.85	3,080.26	4,736.62	4,514.37	222.25	21.312		
10,700.00	7,730.00	7,709.00	7,709.00	98.18	133.58	90.00	-4,087.85	3,080.26	4,641.33	4,418.96	222.37	20.872		
10,800.00	7,730.00	7,709.00	7,709.00	97.99	133.58	90.00	-4,087.85	3,080.26	4,546.24	4,323.74	222.50	20.433		
10,900.00	7,730.00	7,709.00	7,709.00	97.81	133.58	90.00	-4,087.85	3,080.26	4,451.36	4,228.73	222.63	19.995		
11,000.00	7,730.00	7,709.00	7,709.00	97.64	133.58	90.00	-4,087.85	3,080.26	4,356.71	4,133.95	222.76	19.558		
11,100.00	7,730.00	7,709.00	7,709.00	97.50	133.58	90.00	-4,087.85	3,080.26	4,262.30	4,039.40	222.90	19.122		
11,200.00	7,730.00	7,709.00	7,709.00	97.36	133.58	90.00	-4,087.85	3,080.26	4,168.16	3,945.11	223.05	18.687		
11,300.00	7,730.00	7,709.00	7,709.00	97.24	133.58	90.00	-4,087.85	3,080.26	4,074.30	3,851.09	223.20	18.254		
11,400.00	7,730.00	7,709.00	7,709.00	97.14	133.58	90.00	-4,087.85	3,080.26	3,980.73	3,757.36	223.37	17.822		
11,500.00	7,730.00	7,709.00	7,709.00	97.06	133.58	90.00	-4,087.85	3,080.26	3,887.48	3,663.95	223.53	17.391		
11,600.00	7,730.00	7,709.00	7,709.00	96.98	133.58	90.00	-4,087.85	3,080.26	3,794.58	3,570.88	223.71	16.962		
11,700.00	7,730.00	7,709.00	7,709.00	96.93	133.58	90.00	-4,087.85	3,080.26	3,702.05	3,478.16	223.89	16.535		
11,800.00	7,730.00	7,709.00	7,709.00	96.90	133.58	90.00	-4,087.85	3,080.26	3,609.92	3,385.84	224.08	16.110		
11,900.00	7,730.00	7,709.00	7,709.00	96.88	133.58	90.00	-4,087.85	3,080.26	3,518.22	3,293.94	224.28	15.687		
12,000.00	7,730.00	7,709.00	7,709.00	96.88	133.58	90.00	-4,087.85	3,080.26	3,426.98	3,202.49	224.48	15.266		
12,100.00	7,730.00	7,709.00	7,709.00	96.90	133.58	90.00	-4,087.85	3,080.26	3,336.24	3,111.54	224.70	14.848		
12,200.00	7,730.00	7,709.00	7,709.00	96.94	133.58	90.00	-4,087.85	3,080.26	3,246.05	3,021.12	224.92	14.432		
12,300.00	7,730.00	7,709.00	7,709.00	97.00	133.58	90.00	-4,087.85	3,080.26	3,156.44	2,931.29	225.16	14.019		
12,400.00	7,730.00	7,709.00	7,709.00	97.08	133.58	90.00	-4,087.85	3,080.26	3,067.49	2,842.09	225.40	13.609		
12,500.00	7,730.00	7,709.00	7,709.00	97.18	133.58	90.00	-4,087.85	3,080.26	2,979.23	2,753.57	225.65	13.203		
12,600.00	7,730.00	7,709.00	7,709.00	97.31	133.58	90.00	-4,087.85	3,080.26	2,891.73	2,665.82	225.92	12.800		
12,700.00	7,730.00	7,709.00	7,709.00	97.46	133.58	90.00	-4,087.85	3,080.26	2,805.07	2,578.89	226.19	12.401		
12,800.00	7,730.00	7,709.00	7,709.00	97.64	133.58	90.00	-4,087.85	3,080.26	2,719.33	2,492.86	226.47	12.007		
12,900.00	7,730.00	7,709.00	7,709.00	97.85	133.58	90.00	-4,087.85	3,080.26	2,634.60	2,407.83	226.76	11.618		
13,000.00	7,730.00	7,709.00	7,709.00	98.09	133.58	90.00	-4,087.85	3,080.26	2,550.96	2,323.90	227.06	11.235		
13,100.00	7,730.00	7,709.00	7,709.00	98.35	133.58	90.00	-4,087.85	3,080.26	2,468.55	2,241.18	227.37	10.857		
13,200.00	7,730.00	7,709.00	7,709.00	98.65	133.58	90.00	-4,087.85	3,080.26	2,387.48	2,159.80	227.69	10.486		
13,300.00	7,730.00	7,709.00	7,709.00	98.98	133.58	90.00	-4,087.85	3,080.26	2,307.90	2,079.89	228.01	10.122		
13,400.00	7,730.00	7,709.00	7,709.00	99.34	133.58	90.00	-4,087.85	3,080.26	2,229.96	2,001.63	228.33	9.767		
13,500.00	7,730.00	7,709.00	7,709.00	99.74	133.58	90.00	-4,087.85	3,080.26	2,153.84	1,925.20	228.64	9.420		
13,600.00	7,730.00	7,709.00	7,709.00	100.17	133.58	90.00	-4,087.85	3,080.26	2,079.75	1,850.80	228.96	9.084		
13,700.00	7,730.00	7,709.00	7,709.00	100.65	133.58	90.00	-4,087.85	3,080.26	2,007.91	1,778.65	229.26	8.758		
13,800.00	7,730.00	7,709.00	7,709.00	101.16	133.58	90.00	-4,087.85	3,080.26	1,938.56	1,709.03	229.54	8.446		
13,900.00	7,730.00	7,709.00	7,709.00	101.71	133.58	90.00	-4,087.85	3,080.26	1,871.99	1,642.20	229.79	8.147		
14,000.00	7,730.00	7,709.00	7,709.00	102.30	133.58	90.00	-4,087.85	3,080.26	1,808.50	1,578.50	230.00	7.863		
14,100.00	7,730.00	7,709.00	7,709.00	102.93	133.58	90.00	-4,087.85	3,080.26	1,748.43	1,518.27	230.16	7.597		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,709.00	7,709.00	103.60	133.58	90.00	-4,087.85	3,080.26	1,692.14	1,461.88	230.26	7.349		
14,300.00	7,730.00	7,709.00	7,709.00	104.32	133.58	90.00	-4,087.85	3,080.26	1,640.02	1,409.75	230.27	7.122		
14,400.00	7,730.00	7,709.00	7,709.00	105.07	133.58	90.00	-4,087.85	3,080.26	1,592.48	1,362.29	230.18	6.918		
14,500.00	7,730.00	7,709.00	7,709.00	105.86	133.58	90.00	-4,087.85	3,080.26	1,549.94	1,319.96	229.98	6.739		
14,600.00	7,730.00	7,709.00	7,709.00	106.70	133.58	90.00	-4,087.85	3,080.26	1,512.82	1,283.18	229.65	6.588		
14,700.00	7,730.00	7,709.00	7,709.00	107.57	133.58	90.00	-4,087.85	3,080.26	1,481.54	1,252.37	229.17	6.465		
14,800.00	7,730.00	7,709.00	7,709.00	108.48	133.58	90.00	-4,087.85	3,080.26	1,456.46	1,227.93	228.54	6.373		
14,900.00	7,730.00	7,709.00	7,709.00	109.43	133.58	90.00	-4,087.85	3,080.26	1,437.92	1,210.16	227.75	6.313		
15,000.00	7,730.00	7,709.00	7,709.00	110.42	133.58	90.00	-4,087.85	3,080.26	1,426.16	1,199.33	226.83	6.287 SF		
15,100.00	7,730.00	7,709.00	7,709.00	111.43	133.58	90.00	-4,087.85	3,080.26	1,421.36	1,195.58	225.77	6.295 ES		
15,118.37	7,730.00	7,709.00	7,709.00	111.63	133.58	90.00	-4,087.85	3,080.26	1,421.24	1,195.67	225.57	6.301 CC		
15,200.00	7,730.00	7,709.00	7,709.00	112.49	133.58	90.00	-4,087.85	3,080.26	1,423.58	1,198.96	224.62	6.338		
15,300.00	7,730.00	7,709.00	7,709.00	113.57	133.58	90.00	-4,087.85	3,080.26	1,432.80	1,209.40	223.39	6.414		
15,400.00	7,730.00	7,709.00	7,709.00	114.68	133.58	90.00	-4,087.85	3,080.26	1,448.87	1,226.74	222.13	6.522		
15,500.00	7,730.00	7,709.00	7,709.00	115.82	133.58	90.00	-4,087.85	3,080.26	1,471.58	1,250.71	220.88	6.662		
15,600.00	7,730.00	7,709.00	7,709.00	116.99	133.58	90.00	-4,087.85	3,080.26	1,500.63	1,280.98	219.65	6.832		
15,700.00	7,730.00	7,709.00	7,709.00	118.19	133.58	90.00	-4,087.85	3,080.26	1,535.65	1,317.16	218.49	7.028		
15,800.00	7,730.00	7,709.00	7,709.00	119.41	133.58	90.00	-4,087.85	3,080.26	1,576.24	1,358.83	217.41	7.250		
15,900.00	7,730.00	7,709.00	7,709.00	120.65	133.58	90.00	-4,087.85	3,080.26	1,621.99	1,405.57	216.43	7.494		
16,000.00	7,730.00	7,709.00	7,709.00	121.91	133.58	90.00	-4,087.85	3,080.26	1,672.48	1,456.93	215.55	7.759		
16,100.00	7,730.00	7,709.00	7,709.00	123.20	133.58	90.00	-4,087.85	3,080.26	1,727.29	1,512.50	214.78	8.042		
16,200.00	7,730.00	7,709.00	7,709.00	124.50	133.58	90.00	-4,087.85	3,080.26	1,786.01	1,571.90	214.12	8.341		
16,300.00	7,730.00	7,709.00	7,709.00	125.82	133.58	90.00	-4,087.85	3,080.26	1,848.29	1,634.74	213.55	8.655		
16,400.00	7,730.00	7,709.00	7,709.00	127.16	133.58	90.00	-4,087.85	3,080.26	1,913.76	1,700.69	213.08	8.982		
16,500.00	7,730.00	7,709.00	7,709.00	128.52	133.58	90.00	-4,087.85	3,080.26	1,982.12	1,769.44	212.68	9.320		
16,600.00	7,730.00	7,709.00	7,709.00	129.89	133.58	90.00	-4,087.85	3,080.26	2,053.08	1,840.72	212.36	9.668		
16,700.00	7,730.00	7,709.00	7,709.00	131.27	133.58	90.00	-4,087.85	3,080.26	2,126.37	1,914.26	212.11	10.025		
16,800.00	7,730.00	7,709.00	7,709.00	132.67	133.58	90.00	-4,087.85	3,080.26	2,201.77	1,989.86	211.91	10.390		
16,900.00	7,730.00	7,709.00	7,709.00	134.09	133.58	90.00	-4,087.85	3,080.26	2,279.06	2,067.30	211.76	10.762		
17,000.00	7,730.00	7,709.00	7,709.00	135.51	133.58	90.00	-4,087.85	3,080.26	2,358.06	2,146.41	211.65	11.141		
17,100.00	7,730.00	7,709.00	7,709.00	136.95	133.58	90.00	-4,087.85	3,080.26	2,438.60	2,227.02	211.58	11.526		
17,200.00	7,730.00	7,709.00	7,709.00	138.40	133.58	90.00	-4,087.85	3,080.26	2,520.54	2,309.00	211.54	11.915		
17,300.00	7,730.00	7,709.00	7,709.00	139.85	133.58	90.00	-4,087.85	3,080.26	2,603.73	2,392.21	211.52	12.310		
17,400.00	7,730.00	7,709.00	7,709.00	141.32	133.58	90.00	-4,087.85	3,080.26	2,688.08	2,476.55	211.52	12.708		
17,500.00	7,730.00	7,709.00	7,709.00	142.80	133.58	90.00	-4,087.85	3,080.26	2,773.46	2,561.92	211.54	13.111		
17,600.00	7,730.00	7,709.00	7,709.00	144.28	133.58	90.00	-4,087.85	3,080.26	2,859.79	2,648.21	211.58	13.516		
17,700.00	7,730.00	7,709.00	7,709.00	145.78	133.58	90.00	-4,087.85	3,080.26	2,946.99	2,735.36	211.63	13.925		
17,800.00	7,730.00	7,709.00	7,709.00	147.28	133.58	90.00	-4,087.85	3,080.26	3,034.97	2,823.29	211.68	14.337		
17,900.00	7,730.00	7,709.00	7,709.00	148.79	133.58	90.00	-4,087.85	3,080.26	3,123.68	2,911.93	211.75	14.752		
18,000.00	7,730.00	7,709.00	7,709.00	150.31	133.58	90.00	-4,087.85	3,080.26	3,213.05	3,001.23	211.82	15.169		
18,100.00	7,730.00	7,709.00	7,709.00	151.83	133.58	90.00	-4,087.85	3,080.26	3,303.03	3,091.13	211.90	15.588		
18,200.00	7,730.00	7,709.00	7,709.00	153.37	133.58	90.00	-4,087.85	3,080.26	3,393.58	3,181.59	211.98	16.009		
18,300.00	7,730.00	7,709.00	7,709.00	154.90	133.58	90.00	-4,087.85	3,080.26	3,484.63	3,272.57	212.07	16.432		
18,400.00	7,730.00	7,709.00	7,709.00	156.45	133.58	90.00	-4,087.85	3,080.26	3,576.17	3,364.02	212.16	16.856		
18,500.00	7,730.00	7,709.00	7,709.00	158.00	133.58	90.00	-4,087.85	3,080.26	3,668.15	3,455.91	212.25	17.283		
18,600.00	7,730.00	7,709.00	7,709.00	159.55	133.58	90.00	-4,087.85	3,080.26	3,760.54	3,548.20	212.34	17.710		
18,700.00	7,730.00	7,709.00	7,709.00	161.11	133.58	90.00	-4,087.85	3,080.26	3,853.31	3,640.88	212.43	18.139		
18,800.00	7,730.00	7,709.00	7,709.00	162.68	133.58	90.00	-4,087.85	3,080.26	3,946.43	3,733.91	212.52	18.569		
18,900.00	7,730.00	7,709.00	7,709.00	164.25	133.58	90.00	-4,087.85	3,080.26	4,039.88	3,827.26	212.62	19.001		
19,000.00	7,730.00	7,709.00	7,709.00	165.83	133.58	90.00	-4,087.85	3,080.26	4,133.64	3,920.93	212.71	19.433		
19,100.00	7,730.00	7,709.00	7,709.00	167.41	133.58	90.00	-4,087.85	3,080.26	4,227.68	4,014.88	212.81	19.866		
19,200.00	7,730.00	7,709.00	7,709.00	168.99	133.58	90.00	-4,087.85	3,080.26	4,321.99	4,109.09	212.90	20.301		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - SI VERT ALAUX 26-3 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program:		0-INC-ONLY										Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,709.00	7,709.00	170.58	133.58	90.00	-4,087.85	3,080.26	4,416.55	4,203.56	212.99	20.736	
19,400.00	7,730.00	7,709.00	7,709.00	172.17	133.58	90.00	-4,087.85	3,080.26	4,511.35	4,298.26	213.08	21.172	
19,430.54	7,730.00	7,709.00	7,709.00	172.66	133.58	90.00	-4,087.85	3,080.26	4,540.34	4,327.23	213.11	21.305	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	145.78	-7,866.23	5,349.46	9,512.88					
100.00	100.00	76.00	76.00	0.13	0.58	145.78	-7,866.23	5,349.46	9,512.85	9,512.13	0.72	N/A		
200.00	200.00	176.00	176.00	0.49	2.09	145.78	-7,866.23	5,349.46	9,512.85	9,510.26	2.59	3,676.755		
300.00	300.00	276.00	276.00	0.85	3.84	145.78	-7,866.23	5,349.46	9,512.85	9,508.16	4.69	2,027.852		
400.00	400.00	376.00	376.00	1.21	5.59	145.78	-7,866.23	5,349.46	9,512.85	9,506.05	6.79	1,399.999		
500.00	500.00	476.00	476.00	1.57	7.33	145.78	-7,866.23	5,349.46	9,512.85	9,503.95	8.90	1,069.016		
600.00	599.98	575.98	575.98	1.92	9.08	80.45	-7,866.23	5,349.46	9,512.56	9,501.56	11.00	864.966		
700.00	699.84	675.84	675.84	2.28	10.82	80.50	-7,866.23	5,349.46	9,511.69	9,498.60	13.09	726.403		
800.00	799.45	775.45	775.45	2.64	12.56	80.58	-7,866.23	5,349.46	9,510.25	9,495.06	15.20	625.872		
900.00	898.70	874.70	874.70	3.02	14.29	80.69	-7,866.23	5,349.46	9,508.25	9,490.95	17.30	549.508		
1,000.00	997.47	973.47	973.47	3.41	16.01	80.83	-7,866.23	5,349.46	9,505.71	9,486.29	19.42	489.437		
1,100.00	1,095.62	1,071.62	1,071.62	3.84	17.73	81.00	-7,866.23	5,349.46	9,502.64	9,481.09	21.55	440.862		
1,200.00	1,193.06	1,169.06	1,169.06	4.29	19.43	81.20	-7,866.23	5,349.46	9,499.07	9,475.37	23.71	400.703		
1,300.00	1,289.64	1,265.64	1,265.64	4.78	21.11	81.43	-7,866.23	5,349.46	9,495.03	9,469.15	25.88	366.894		
1,400.00	1,385.27	1,361.27	1,361.27	5.32	22.78	81.69	-7,866.23	5,349.46	9,490.55	9,462.47	28.08	337.999		
1,500.00	1,479.82	1,455.82	1,455.82	5.90	24.43	81.97	-7,866.23	5,349.46	9,485.66	9,455.35	30.31	312.989		
1,600.00	1,573.17	1,549.17	1,549.17	6.53	26.06	82.27	-7,866.23	5,349.46	9,480.40	9,447.84	32.57	291.112		
1,700.00	1,665.21	1,641.21	1,641.21	7.23	27.67	82.60	-7,866.23	5,349.46	9,474.83	9,439.97	34.86	271.800		
1,800.00	1,755.84	1,731.84	1,731.84	7.98	29.25	82.95	-7,866.23	5,349.46	9,468.97	9,431.78	37.19	254.620		
1,900.00	1,844.94	1,820.94	1,820.94	8.80	30.80	83.31	-7,866.23	5,349.46	9,462.89	9,423.33	39.55	239.236		
2,000.00	1,932.39	1,908.39	1,908.39	9.68	32.33	83.69	-7,866.23	5,349.46	9,456.62	9,414.67	41.96	225.381		
2,100.00	2,018.11	2,005.89	1,994.11	10.63	34.03	84.08	-7,866.23	5,349.46	9,450.24	9,405.63	44.61	211.858		
2,200.00	2,101.97	2,077.97	2,077.97	11.65	35.29	84.49	-7,866.23	5,349.46	9,443.79	9,396.91	46.88	201.440		
2,300.00	2,183.88	2,159.88	2,159.88	12.74	36.72	84.90	-7,866.23	5,349.46	9,437.33	9,387.93	49.40	191.038		
2,400.00	2,263.74	2,239.74	2,239.74	13.90	38.11	85.32	-7,866.23	5,349.46	9,430.93	9,378.97	51.96	181.514		
2,431.61	2,288.54	2,264.54	2,264.54	14.29	38.55	85.46	-7,866.23	5,349.46	9,428.92	9,376.15	52.77	178.674		
2,500.00	2,341.97	2,317.97	2,317.97	15.13	39.48	85.66	-7,866.23	5,349.46	9,424.70	9,370.15	54.54	172.790		
2,600.00	2,420.08	2,403.92	2,396.08	16.37	40.98	85.95	-7,866.23	5,349.46	9,418.86	9,361.57	57.29	164.409		
2,700.00	2,498.20	2,474.20	2,474.20	17.63	42.21	86.25	-7,866.23	5,349.46	9,413.44	9,353.66	59.77	157.482		
2,800.00	2,576.32	2,552.32	2,552.32	18.89	43.57	86.55	-7,866.23	5,349.46	9,408.42	9,346.02	62.41	150.755		
2,900.00	2,654.43	2,630.43	2,630.43	20.17	44.93	86.84	-7,866.23	5,349.46	9,403.82	9,338.77	65.05	144.559		
3,000.00	2,732.55	2,708.55	2,708.55	21.45	46.30	87.14	-7,866.23	5,349.46	9,399.63	9,331.93	67.70	138.837		
3,100.00	2,810.67	2,786.67	2,786.67	22.74	47.66	87.44	-7,866.23	5,349.46	9,395.86	9,325.50	70.36	133.541		
3,200.00	2,888.78	2,864.78	2,864.78	24.03	49.02	87.74	-7,866.23	5,349.46	9,392.50	9,319.47	73.02	128.626		
3,300.00	2,966.90	2,942.90	2,942.90	25.33	50.39	88.03	-7,866.23	5,349.46	9,389.55	9,313.86	75.69	124.056		
3,400.00	3,045.02	3,021.02	3,021.02	26.63	51.75	88.33	-7,866.23	5,349.46	9,387.01	9,308.66	78.36	119.796		
3,500.00	3,123.13	3,100.87	3,099.13	27.94	53.14	88.63	-7,866.23	5,349.46	9,384.89	9,303.83	81.06	115.775		
3,600.00	3,201.25	3,177.25	3,177.25	29.24	54.48	88.93	-7,866.23	5,349.46	9,383.19	9,299.48	83.71	112.097		
3,700.00	3,279.37	3,255.37	3,255.37	30.55	55.84	89.22	-7,866.23	5,349.46	9,381.90	9,295.52	86.38	108.608		
3,800.00	3,357.49	3,333.49	3,333.49	31.86	57.20	89.52	-7,866.23	5,349.46	9,381.03	9,291.96	89.06	105.333		
3,900.00	3,435.60	3,411.60	3,411.60	33.18	58.57	89.82	-7,866.23	5,349.46	9,380.57	9,288.83	91.74	102.252		
3,960.40	3,482.79	3,458.79	3,458.79	33.97	59.39	90.00	-7,866.23	5,349.46	9,380.49	9,287.13	93.36	100.478		
4,000.00	3,513.72	3,489.72	3,489.72	34.49	59.93	90.12	-7,866.23	5,349.46	9,380.52	9,286.10	94.42	99.349		
4,100.00	3,591.84	3,567.84	3,567.84	35.81	61.29	90.42	-7,866.23	5,349.46	9,380.90	9,283.80	97.10	96.611		
4,200.00	3,669.95	3,645.95	3,645.95	37.12	62.66	90.71	-7,866.23	5,349.46	9,381.68	9,281.90	99.78	94.024		
4,300.00	3,748.07	3,724.07	3,724.07	38.44	64.02	91.01	-7,866.23	5,349.46	9,382.89	9,280.43	102.46	91.577		
4,400.00	3,826.19	3,802.19	3,802.19	39.76	65.38	91.31	-7,866.23	5,349.46	9,384.51	9,279.37	105.14	89.259		
4,500.00	3,904.30	3,880.30	3,880.30	41.08	66.75	91.61	-7,866.23	5,349.46	9,386.54	9,278.72	107.82	87.061		
4,600.00	3,982.42	3,958.42	3,958.42	42.40	68.11	91.90	-7,866.23	5,349.46	9,388.99	9,278.49	110.49	84.974		
4,700.00	4,060.54	4,036.54	4,036.54	43.72	69.47	92.20	-7,866.23	5,349.46	9,391.85	9,278.68	113.17	82.991		
4,800.00	4,138.66	4,114.66	4,114.66	45.05	70.84	92.50	-7,866.23	5,349.46	9,395.13	9,279.28	115.84	81.103		
4,900.00	4,216.77	4,202.23	4,192.77	46.37	72.45	92.80	-7,866.23	5,349.46	9,398.82	9,280.05	118.77	79.137		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,270.89	4,270.89	47.69	73.56	93.09	-7,866.23	5,349.46	9,402.92	9,281.73	121.18	77.592		
5,100.00	4,373.01	4,349.01	4,349.01	49.02	74.93	93.39	-7,866.23	5,349.46	9,407.43	9,283.58	123.85	75.957		
5,200.00	4,451.12	4,427.12	4,427.12	50.34	76.29	93.69	-7,866.23	5,349.46	9,412.36	9,285.84	126.52	74.396		
5,300.00	4,529.24	4,505.24	4,505.24	51.67	77.65	93.98	-7,866.23	5,349.46	9,417.70	9,288.52	129.18	72.904		
5,400.00	4,607.36	4,583.36	4,583.36	52.99	79.02	94.28	-7,866.23	5,349.46	9,423.45	9,291.61	131.84	71.476		
5,500.00	4,685.47	4,661.47	4,661.47	54.32	80.38	94.58	-7,866.23	5,349.46	9,429.61	9,295.11	134.50	70.110		
5,600.00	4,763.59	4,739.59	4,739.59	55.64	81.74	94.87	-7,866.23	5,349.46	9,436.18	9,299.02	137.15	68.801		
5,700.00	4,841.71	4,817.71	4,817.71	56.97	83.11	95.17	-7,866.23	5,349.46	9,443.15	9,303.35	139.80	67.546		
5,800.00	4,919.83	4,904.17	4,895.83	58.30	84.62	95.46	-7,866.23	5,349.46	9,450.54	9,307.94	142.60	66.274		
5,900.00	4,997.94	4,973.94	4,973.94	59.62	85.83	95.76	-7,866.23	5,349.46	9,458.33	9,313.23	145.10	65.187		
6,000.00	5,076.06	5,052.06	5,052.06	60.95	87.20	96.05	-7,866.23	5,349.46	9,466.52	9,318.79	147.74	64.077		
6,100.00	5,154.18	5,130.18	5,130.18	62.28	88.56	96.35	-7,866.23	5,349.46	9,475.12	9,324.75	150.37	63.011		
6,200.00	5,232.29	5,208.29	5,208.29	63.61	89.92	96.64	-7,866.23	5,349.46	9,484.13	9,331.12	153.01	61.985		
6,300.00	5,310.41	5,286.41	5,286.41	64.93	91.29	96.94	-7,866.23	5,349.46	9,493.53	9,337.90	155.63	60.999		
6,400.00	5,388.53	5,364.53	5,364.53	66.26	92.65	97.23	-7,866.23	5,349.46	9,503.34	9,345.08	158.26	60.049		
6,500.00	5,466.64	5,442.64	5,442.64	67.59	94.01	97.52	-7,866.23	5,349.46	9,513.54	9,352.66	160.88	59.135		
6,600.00	5,544.76	5,520.76	5,520.76	68.92	95.38	97.81	-7,866.23	5,349.46	9,524.15	9,360.65	163.50	58.253		
6,700.00	5,622.88	5,601.12	5,598.88	70.25	96.78	98.11	-7,866.23	5,349.46	9,535.15	9,369.00	166.15	57.390		
6,800.00	5,701.00	5,677.00	5,677.00	71.58	98.10	98.40	-7,866.23	5,349.46	9,546.54	9,377.83	168.71	56.585		
6,900.00	5,779.11	5,755.11	5,755.11	72.91	99.47	98.69	-7,866.23	5,349.46	9,558.33	9,387.02	171.31	55.794		
7,000.00	5,857.23	5,833.23	5,833.23	74.23	100.83	98.98	-7,866.23	5,349.46	9,570.52	9,396.61	173.91	55.031		
7,100.00	5,935.35	5,911.35	5,911.35	75.56	102.20	99.27	-7,866.23	5,349.46	9,583.09	9,406.59	176.50	54.294		
7,200.00	6,013.46	5,989.46	5,989.46	76.89	103.56	99.56	-7,866.23	5,349.46	9,596.06	9,416.97	179.09	53.583		
7,300.00	6,091.58	6,067.58	6,067.58	78.22	104.92	99.85	-7,866.23	5,349.46	9,609.41	9,427.74	181.67	52.895		
7,400.00	6,169.70	6,145.70	6,145.70	79.55	106.29	100.14	-7,866.23	5,349.46	9,623.15	9,438.90	184.25	52.230		
7,500.00	6,247.81	6,223.81	6,223.81	80.88	107.65	100.43	-7,866.23	5,349.46	9,637.27	9,450.45	186.82	51.587		
7,600.00	6,325.93	6,301.93	6,301.93	82.21	109.01	100.72	-7,866.23	5,349.46	9,651.78	9,462.40	189.38	50.965		
7,700.00	6,404.05	6,380.05	6,380.05	83.54	110.38	101.00	-7,866.23	5,349.46	9,666.67	9,474.73	191.94	50.363		
7,800.00	6,482.17	6,458.17	6,458.17	84.87	111.74	101.29	-7,866.23	5,349.46	9,681.93	9,487.44	194.49	49.780		
7,900.00	6,560.28	6,536.28	6,536.28	86.20	113.10	101.58	-7,866.23	5,349.46	9,697.58	9,500.54	197.04	49.216		
8,000.00	6,638.40	6,614.40	6,614.40	87.53	114.47	101.86	-7,866.23	5,349.46	9,713.60	9,514.02	199.58	48.669		
8,100.00	6,716.52	6,692.52	6,692.52	88.86	116.09	102.15	-7,866.23	5,349.46	9,730.00	9,527.62	202.38	48.078		
8,200.00	6,794.63	6,770.63	6,770.63	90.20	117.19	102.43	-7,866.23	5,349.46	9,746.77	9,542.12	204.65	47.627		
8,300.00	6,872.75	6,848.75	6,848.75	91.53	118.56	102.71	-7,866.23	5,349.46	9,763.91	9,556.73	207.17	47.129		
8,400.00	6,950.87	6,926.87	6,926.87	92.86	119.92	103.00	-7,866.23	5,349.46	9,781.41	9,571.72	209.69	46.647		
8,500.00	7,028.98	7,004.98	7,004.98	94.19	121.28	103.28	-7,866.23	5,349.46	9,799.29	9,587.09	212.20	46.179		
8,600.00	7,107.10	7,083.10	7,083.10	95.52	122.65	103.56	-7,866.23	5,349.46	9,817.53	9,602.82	214.71	45.725		
8,647.91	7,144.53	7,120.53	7,120.53	96.16	123.30	103.70	-7,866.23	5,349.46	9,826.39	9,610.49	215.91	45.513		
8,650.00	7,146.16	7,122.16	7,122.16	96.18	123.33	103.46	-7,866.23	5,349.46	9,826.78	9,610.82	215.96	45.503		
8,700.00	7,185.66	7,161.66	7,161.66	96.84	124.02	97.50	-7,866.23	5,349.46	9,833.80	9,616.59	217.22	45.272		
8,750.00	7,225.78	7,201.78	7,201.78	97.47	124.72	91.06	-7,866.23	5,349.46	9,836.60	9,618.12	218.49	45.022		
8,800.00	7,266.21	7,242.21	7,242.21	98.08	125.42	84.33	-7,866.23	5,349.46	9,835.15	9,615.40	219.76	44.755		
8,850.00	7,306.63	7,282.63	7,282.63	98.64	126.13	77.56	-7,866.23	5,349.46	9,829.46	9,608.45	221.01	44.475		
8,900.00	7,346.75	7,322.75	7,322.75	99.17	126.83	70.98	-7,866.23	5,349.46	9,819.56	9,597.32	222.24	44.185		
8,950.00	7,386.25	7,362.25	7,362.25	99.64	127.52	64.80	-7,866.23	5,349.46	9,805.53	9,582.10	223.43	43.886		
9,000.00	7,424.84	7,400.84	7,400.84	100.06	128.19	59.14	-7,866.23	5,349.46	9,787.46	9,562.88	224.57	43.582		
9,050.00	7,462.22	7,438.22	7,438.22	100.42	128.84	54.05	-7,866.23	5,349.46	9,765.48	9,539.82	225.66	43.275		
9,100.00	7,498.11	7,474.11	7,474.11	100.74	129.47	49.53	-7,866.23	5,349.46	9,739.75	9,513.06	226.69	42.966		
9,150.00	7,532.24	7,508.24	7,508.24	100.99	130.07	45.53	-7,866.23	5,349.46	9,710.45	9,482.81	227.64	42.657		
9,200.00	7,564.34	7,540.34	7,540.34	101.19	130.63	41.98	-7,866.23	5,349.46	9,677.80	9,449.28	228.51	42.351		
9,250.00	7,594.17	7,570.17	7,570.17	101.34	131.15	38.79	-7,866.23	5,349.46	9,642.02	9,412.72	229.31	42.048		
9,300.00	7,621.50	7,602.50	7,597.50	101.45	131.71	35.86	-7,866.23	5,349.46	9,603.39	9,373.29	230.10	41.735		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,622.13	7,622.13	101.50	132.05	33.06	-7,866.23	5,349.46	9,562.19	9,331.55	230.64	41.460		
9,400.00	7,667.87	7,643.87	7,643.87	101.51	132.43	30.21	-7,866.23	5,349.46	9,518.72	9,287.55	231.17	41.177		
9,450.00	7,686.55	7,662.55	7,662.55	101.48	132.76	27.04	-7,866.23	5,349.46	9,473.30	9,241.69	231.61	40.903		
9,500.00	7,702.04	7,678.04	7,678.04	101.42	133.03	22.98	-7,866.23	5,349.46	9,426.27	9,194.31	231.95	40.639		
9,550.00	7,714.20	7,709.80	7,690.20	101.33	133.58	16.72	-7,866.23	5,349.46	9,377.98	9,145.43	232.55	40.326		
9,600.00	7,722.96	7,701.04	7,698.96	101.20	133.43	4.14	-7,866.23	5,349.46	9,328.80	9,096.39	232.42	40.138		
9,650.00	7,728.24	7,704.24	7,704.24	101.06	133.49	-30.64	-7,866.23	5,349.46	9,279.10	9,046.64	232.46	39.917		
9,699.97	7,730.00	7,706.00	7,706.00	100.90	133.52	-90.00	-7,866.23	5,349.46	9,229.29	8,996.84	232.46	39.703		
9,800.00	7,730.00	7,706.00	7,706.00	100.56	133.52	-90.00	-7,866.23	5,349.46	9,129.70	8,897.34	232.36	39.290		
9,900.00	7,730.00	7,706.00	7,706.00	100.24	133.52	-90.00	-7,866.23	5,349.46	9,030.15	8,797.88	232.27	38.878		
10,000.00	7,730.00	7,706.00	7,706.00	99.93	133.52	-90.00	-7,866.23	5,349.46	8,930.62	8,698.44	232.18	38.465		
10,100.00	7,730.00	7,706.00	7,706.00	99.64	133.52	-90.00	-7,866.23	5,349.46	8,831.09	8,599.01	232.08	38.052		
10,200.00	7,730.00	7,706.00	7,706.00	99.36	133.52	-90.00	-7,866.23	5,349.46	8,731.57	8,499.59	231.98	37.639		
10,300.00	7,730.00	7,706.00	7,706.00	99.09	133.52	-90.00	-7,866.23	5,349.46	8,632.06	8,400.18	231.88	37.226		
10,400.00	7,730.00	7,706.00	7,706.00	98.84	133.52	-90.00	-7,866.23	5,349.46	8,532.56	8,300.79	231.78	36.814		
10,500.00	7,730.00	7,706.00	7,706.00	98.61	133.52	-90.00	-7,866.23	5,349.46	8,433.08	8,201.41	231.67	36.401		
10,600.00	7,730.00	7,706.00	7,706.00	98.39	133.52	-90.00	-7,866.23	5,349.46	8,333.61	8,102.04	231.57	35.988		
10,700.00	7,730.00	7,706.00	7,706.00	98.18	133.52	-90.00	-7,866.23	5,349.46	8,234.15	8,002.69	231.46	35.575		
10,800.00	7,730.00	7,706.00	7,706.00	97.99	133.52	-90.00	-7,866.23	5,349.46	8,134.71	7,903.36	231.35	35.162		
10,900.00	7,730.00	7,706.00	7,706.00	97.81	133.52	-90.00	-7,866.23	5,349.46	8,035.27	7,804.04	231.23	34.750		
11,000.00	7,730.00	7,706.00	7,706.00	97.64	133.52	-90.00	-7,866.23	5,349.46	7,935.86	7,704.74	231.12	34.337		
11,100.00	7,730.00	7,706.00	7,706.00	97.50	133.52	-90.00	-7,866.23	5,349.46	7,836.45	7,605.45	231.00	33.924		
11,200.00	7,730.00	7,706.00	7,706.00	97.36	133.52	-90.00	-7,866.23	5,349.46	7,737.07	7,506.19	230.88	33.511		
11,300.00	7,730.00	7,706.00	7,706.00	97.24	133.52	-90.00	-7,866.23	5,349.46	7,637.70	7,406.94	230.76	33.098		
11,400.00	7,730.00	7,706.00	7,706.00	97.14	133.52	-90.00	-7,866.23	5,349.46	7,538.34	7,307.71	230.63	32.686		
11,500.00	7,730.00	7,706.00	7,706.00	97.06	133.52	-90.00	-7,866.23	5,349.46	7,439.00	7,208.50	230.50	32.273		
11,600.00	7,730.00	7,706.00	7,706.00	96.98	133.52	-90.00	-7,866.23	5,349.46	7,339.68	7,109.31	230.37	31.860		
11,700.00	7,730.00	7,706.00	7,706.00	96.93	133.52	-90.00	-7,866.23	5,349.46	7,240.38	7,010.15	230.23	31.448		
11,800.00	7,730.00	7,706.00	7,706.00	96.90	133.52	-90.00	-7,866.23	5,349.46	7,141.10	6,911.01	230.10	31.035		
11,900.00	7,730.00	7,706.00	7,706.00	96.88	133.52	-90.00	-7,866.23	5,349.46	7,041.84	6,811.89	229.95	30.623		
12,000.00	7,730.00	7,706.00	7,706.00	96.88	133.52	-90.00	-7,866.23	5,349.46	6,942.60	6,712.79	229.81	30.210		
12,100.00	7,730.00	7,706.00	7,706.00	96.90	133.52	-90.00	-7,866.23	5,349.46	6,843.39	6,613.73	229.66	29.798		
12,200.00	7,730.00	7,706.00	7,706.00	96.94	133.52	-90.00	-7,866.23	5,349.46	6,744.19	6,514.69	229.51	29.386		
12,300.00	7,730.00	7,706.00	7,706.00	97.00	133.52	-90.00	-7,866.23	5,349.46	6,645.02	6,415.67	229.35	28.973		
12,400.00	7,730.00	7,706.00	7,706.00	97.08	133.52	-90.00	-7,866.23	5,349.46	6,545.88	6,316.69	229.19	28.561		
12,500.00	7,730.00	7,706.00	7,706.00	97.18	133.52	-90.00	-7,866.23	5,349.46	6,446.76	6,217.74	229.02	28.149		
12,600.00	7,730.00	7,706.00	7,706.00	97.31	133.52	-90.00	-7,866.23	5,349.46	6,347.67	6,118.82	228.85	27.737		
12,700.00	7,730.00	7,706.00	7,706.00	97.46	133.52	-90.00	-7,866.23	5,349.46	6,248.61	6,019.93	228.68	27.325		
12,800.00	7,730.00	7,706.00	7,706.00	97.64	133.52	-90.00	-7,866.23	5,349.46	6,149.58	5,921.08	228.50	26.913		
12,900.00	7,730.00	7,706.00	7,706.00	97.85	133.52	-90.00	-7,866.23	5,349.46	6,050.58	5,822.26	228.31	26.501		
13,000.00	7,730.00	7,706.00	7,706.00	98.09	133.52	-90.00	-7,866.23	5,349.46	5,951.61	5,723.49	228.12	26.090		
13,100.00	7,730.00	7,706.00	7,706.00	98.35	133.52	-90.00	-7,866.23	5,349.46	5,852.68	5,624.75	227.93	25.678		
13,200.00	7,730.00	7,706.00	7,706.00	98.65	133.52	-90.00	-7,866.23	5,349.46	5,753.79	5,526.06	227.72	25.266		
13,300.00	7,730.00	7,706.00	7,706.00	98.98	133.52	-90.00	-7,866.23	5,349.46	5,654.93	5,427.41	227.52	24.855		
13,400.00	7,730.00	7,706.00	7,706.00	99.34	133.52	-90.00	-7,866.23	5,349.46	5,556.12	5,328.81	227.30	24.444		
13,500.00	7,730.00	7,706.00	7,706.00	99.74	133.52	-90.00	-7,866.23	5,349.46	5,457.35	5,230.27	227.08	24.033		
13,600.00	7,730.00	7,706.00	7,706.00	100.17	133.52	-90.00	-7,866.23	5,349.46	5,358.62	5,131.77	226.85	23.622		
13,700.00	7,730.00	7,706.00	7,706.00	100.65	133.52	-90.00	-7,866.23	5,349.46	5,259.94	5,033.33	226.62	23.211		
13,800.00	7,730.00	7,706.00	7,706.00	101.16	133.52	-90.00	-7,866.23	5,349.46	5,161.32	4,934.95	226.37	22.800		
13,900.00	7,730.00	7,706.00	7,706.00	101.71	133.52	-90.00	-7,866.23	5,349.46	5,062.75	4,836.63	226.12	22.390		
14,000.00	7,730.00	7,706.00	7,706.00	102.30	133.52	-90.00	-7,866.23	5,349.46	4,964.23	4,738.37	225.86	21.979		
14,100.00	7,730.00	7,706.00	7,706.00	102.93	133.52	-90.00	-7,866.23	5,349.46	4,865.78	4,640.19	225.59	21.569		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,706.00	7,706.00	103.60	133.52	-90.00	-7,866.23	5,349.46	4,767.39	4,542.08	225.31	21.159		
14,300.00	7,730.00	7,706.00	7,706.00	104.32	133.52	-90.00	-7,866.23	5,349.46	4,669.06	4,444.04	225.02	20.749		
14,400.00	7,730.00	7,706.00	7,706.00	105.07	133.52	-90.00	-7,866.23	5,349.46	4,570.82	4,346.09	224.72	20.340		
14,500.00	7,730.00	7,706.00	7,706.00	105.86	133.52	-90.00	-7,866.23	5,349.46	4,472.64	4,248.23	224.41	19.930		
14,600.00	7,730.00	7,706.00	7,706.00	106.70	133.52	-90.00	-7,866.23	5,349.46	4,374.56	4,150.46	224.09	19.521		
14,700.00	7,730.00	7,706.00	7,706.00	107.57	133.52	-90.00	-7,866.23	5,349.46	4,276.56	4,052.80	223.76	19.112		
14,800.00	7,730.00	7,706.00	7,706.00	108.48	133.52	-90.00	-7,866.23	5,349.46	4,178.65	3,955.24	223.41	18.704		
14,900.00	7,730.00	7,706.00	7,706.00	109.43	133.52	-90.00	-7,866.23	5,349.46	4,080.85	3,857.79	223.05	18.295		
15,000.00	7,730.00	7,706.00	7,706.00	110.42	133.52	-90.00	-7,866.23	5,349.46	3,983.15	3,760.47	222.68	17.887		
15,100.00	7,730.00	7,706.00	7,706.00	111.43	133.52	-90.00	-7,866.23	5,349.46	3,885.58	3,663.28	222.30	17.479		
15,200.00	7,730.00	7,706.00	7,706.00	112.49	133.52	-90.00	-7,866.23	5,349.46	3,788.13	3,566.23	221.89	17.072		
15,300.00	7,730.00	7,706.00	7,706.00	113.57	133.52	-90.00	-7,866.23	5,349.46	3,690.81	3,469.33	221.48	16.664		
15,400.00	7,730.00	7,706.00	7,706.00	114.68	133.52	-90.00	-7,866.23	5,349.46	3,593.64	3,372.60	221.05	16.257		
15,500.00	7,730.00	7,706.00	7,706.00	115.82	133.52	-90.00	-7,866.23	5,349.46	3,496.64	3,276.04	220.60	15.851		
15,600.00	7,730.00	7,706.00	7,706.00	116.99	133.52	-90.00	-7,866.23	5,349.46	3,399.80	3,179.67	220.13	15.444		
15,700.00	7,730.00	7,706.00	7,706.00	118.19	133.52	-90.00	-7,866.23	5,349.46	3,303.16	3,083.51	219.65	15.038		
15,800.00	7,730.00	7,706.00	7,706.00	119.41	133.52	-90.00	-7,866.23	5,349.46	3,206.72	2,987.57	219.15	14.633		
15,900.00	7,730.00	7,706.00	7,706.00	120.65	133.52	-90.00	-7,866.23	5,349.46	3,110.51	2,891.88	218.63	14.227		
16,000.00	7,730.00	7,706.00	7,706.00	121.91	133.52	-90.00	-7,866.23	5,349.46	3,014.54	2,796.44	218.09	13.822		
16,100.00	7,730.00	7,706.00	7,706.00	123.20	133.52	-90.00	-7,866.23	5,349.46	2,918.84	2,701.30	217.54	13.417		
16,200.00	7,730.00	7,706.00	7,706.00	124.50	133.52	-90.00	-7,866.23	5,349.46	2,823.44	2,606.47	216.97	13.013		
16,300.00	7,730.00	7,706.00	7,706.00	125.82	133.52	-90.00	-7,866.23	5,349.46	2,728.37	2,511.98	216.39	12.608		
16,400.00	7,730.00	7,706.00	7,706.00	127.16	133.52	-90.00	-7,866.23	5,349.46	2,633.67	2,417.87	215.80	12.204		
16,500.00	7,730.00	7,706.00	7,706.00	128.52	133.52	-90.00	-7,866.23	5,349.46	2,539.37	2,324.17	215.20	11.800		
16,600.00	7,730.00	7,706.00	7,706.00	129.89	133.52	-90.00	-7,866.23	5,349.46	2,445.52	2,230.93	214.59	11.396		
16,700.00	7,730.00	7,706.00	7,706.00	131.27	133.52	-90.00	-7,866.23	5,349.46	2,352.19	2,138.19	213.99	10.992		
16,800.00	7,730.00	7,706.00	7,706.00	132.67	133.52	-90.00	-7,866.23	5,349.46	2,259.42	2,046.01	213.41	10.587		
16,900.00	7,730.00	7,706.00	7,706.00	134.09	133.52	-90.00	-7,866.23	5,349.46	2,167.30	1,954.44	212.85	10.182		
17,000.00	7,730.00	7,706.00	7,706.00	135.51	133.52	-90.00	-7,866.23	5,349.46	2,075.90	1,863.56	212.34	9.776		
17,100.00	7,730.00	7,706.00	7,706.00	136.95	133.52	-90.00	-7,866.23	5,349.46	1,985.33	1,773.44	211.90	9.369		
17,200.00	7,730.00	7,706.00	7,706.00	138.40	133.52	-90.00	-7,866.23	5,349.46	1,895.72	1,684.16	211.55	8.961		
17,300.00	7,730.00	7,706.00	7,706.00	139.85	133.52	-90.00	-7,866.23	5,349.46	1,807.19	1,595.84	211.35	8.551		
17,400.00	7,730.00	7,706.00	7,706.00	141.32	133.52	-90.00	-7,866.23	5,349.46	1,719.92	1,508.58	211.34	8.138		
17,500.00	7,730.00	7,706.00	7,706.00	142.80	133.52	-90.00	-7,866.23	5,349.46	1,634.11	1,422.52	211.59	7.723		
17,600.00	7,730.00	7,706.00	7,706.00	144.28	133.52	-90.00	-7,866.23	5,349.46	1,550.01	1,337.82	212.19	7.305		
17,700.00	7,730.00	7,706.00	7,706.00	145.78	133.52	-90.00	-7,866.23	5,349.46	1,467.89	1,254.66	213.23	6.884		
17,800.00	7,730.00	7,706.00	7,706.00	147.28	133.52	-90.00	-7,866.23	5,349.46	1,388.13	1,173.28	214.85	6.461		
17,900.00	7,730.00	7,706.00	7,706.00	148.79	133.52	-90.00	-7,866.23	5,349.46	1,311.14	1,093.97	217.17	6.037		
18,000.00	7,730.00	7,706.00	7,706.00	150.31	133.52	-90.00	-7,866.23	5,349.46	1,237.45	1,017.10	220.36	5.616		
18,100.00	7,730.00	7,706.00	7,706.00	151.83	133.52	-90.00	-7,866.23	5,349.46	1,167.68	943.15	224.53	5.200		
18,200.00	7,730.00	7,706.00	7,706.00	153.37	133.52	-90.00	-7,866.23	5,349.46	1,102.57	872.75	229.82	4.797		
18,300.00	7,730.00	7,706.00	7,706.00	154.90	133.52	-90.00	-7,866.23	5,349.46	1,043.01	806.73	236.28	4.414		
18,400.00	7,730.00	7,706.00	7,706.00	156.45	133.52	-90.00	-7,866.23	5,349.46	989.98	746.12	243.85	4.060		
18,500.00	7,730.00	7,706.00	7,706.00	158.00	133.52	-90.00	-7,866.23	5,349.46	944.59	692.20	252.39	3.743		
18,600.00	7,730.00	7,706.00	7,706.00	159.55	133.52	-90.00	-7,866.23	5,349.46	907.99	646.43	261.56	3.471		
18,700.00	7,730.00	7,706.00	7,706.00	161.11	133.52	-90.00	-7,866.23	5,349.46	881.27	610.36	270.90	3.253		
18,800.00	7,730.00	7,706.00	7,706.00	162.68	133.52	-90.00	-7,866.23	5,349.46	865.35	585.50	279.85	3.092		
18,889.04	7,730.00	7,706.00	7,706.00	164.08	133.52	-90.00	-7,866.23	5,349.46	860.75	573.75	287.01	2.999 CC		
18,900.00	7,730.00	7,706.00	7,706.00	164.25	133.52	-90.00	-7,866.23	5,349.46	860.82	573.01	287.82	2.991 ES		
19,000.00	7,730.00	7,706.00	7,706.00	165.83	133.52	-90.00	-7,866.23	5,349.46	867.88	573.52	294.36	2.948 SF		
19,100.00	7,730.00	7,706.00	7,706.00	167.41	133.52	-90.00	-7,866.23	5,349.46	886.23	587.03	299.20	2.962		
19,200.00	7,730.00	7,706.00	7,706.00	168.99	133.52	-90.00	-7,866.23	5,349.46	915.20	612.87	302.34	3.027		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT CRANDELL E UNIT 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,706.00	7,706.00	170.58	133.52	-90.00	-7,866.23	5,349.46	953.83	649.91	303.91	3.138	
19,400.00	7,730.00	7,706.00	7,706.00	172.17	133.52	-90.00	-7,866.23	5,349.46	1,000.99	696.78	304.21	3.290	
19,430.54	7,730.00	7,706.00	7,706.00	172.66	133.52	-90.00	-7,866.23	5,349.46	1,016.92	712.82	304.10	3.344	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	149.08	-5,431.33	3,252.66	6,330.84					
100.00	100.00	79.00	79.00	0.13	0.60	149.08	-5,431.33	3,252.66	6,330.81	6,330.07	0.73	8,622.608		
200.00	200.00	179.00	179.00	0.49	2.14	149.08	-5,431.33	3,252.66	6,330.81	6,328.18	2.63	2,406.302		
300.00	300.00	279.00	279.00	0.85	3.88	149.08	-5,431.33	3,252.66	6,330.81	6,326.07	4.73	1,337.100		
400.00	400.00	379.00	379.00	1.21	5.63	149.08	-5,431.33	3,252.66	6,330.81	6,323.97	6.84	925.755		
500.00	500.00	479.00	479.00	1.57	7.37	149.08	-5,431.33	3,252.66	6,330.81	6,321.86	8.94	707.959		
600.00	599.98	578.98	578.98	1.92	9.12	83.75	-5,431.33	3,252.66	6,330.62	6,319.57	11.04	573.359		
700.00	699.84	678.84	678.84	2.28	10.86	83.81	-5,431.33	3,252.66	6,330.05	6,316.91	13.14	481.812		
800.00	799.45	778.45	778.45	2.64	12.60	83.91	-5,431.33	3,252.66	6,329.11	6,313.87	15.24	415.317		
900.00	898.70	877.70	877.70	3.02	14.33	84.04	-5,431.33	3,252.66	6,327.82	6,310.48	17.35	364.764		
1,000.00	997.47	976.47	976.47	3.41	16.06	84.21	-5,431.33	3,252.66	6,326.20	6,306.74	19.47	324.969		
1,100.00	1,095.62	1,074.62	1,074.62	3.84	17.77	84.42	-5,431.33	3,252.66	6,324.28	6,302.68	21.60	292.773		
1,200.00	1,193.06	1,172.06	1,172.06	4.29	19.47	84.66	-5,431.33	3,252.66	6,322.08	6,298.33	23.75	266.144		
1,300.00	1,289.64	1,268.64	1,268.64	4.78	21.16	84.94	-5,431.33	3,252.66	6,319.65	6,293.72	25.93	243.718		
1,400.00	1,385.27	1,364.27	1,364.27	5.32	22.82	85.24	-5,431.33	3,252.66	6,317.04	6,288.91	28.13	224.548		
1,500.00	1,479.82	1,458.82	1,458.82	5.90	24.48	85.57	-5,431.33	3,252.66	6,314.28	6,283.92	30.36	207.954		
1,600.00	1,573.17	1,552.17	1,552.17	6.53	26.10	85.93	-5,431.33	3,252.66	6,311.44	6,278.81	32.63	193.440		
1,700.00	1,665.21	1,644.21	1,644.21	7.23	27.71	86.32	-5,431.33	3,252.66	6,308.57	6,273.65	34.93	180.630		
1,800.00	1,755.84	1,734.84	1,734.84	7.98	29.29	86.72	-5,431.33	3,252.66	6,305.74	6,268.49	37.26	169.239		
1,900.00	1,844.94	1,823.94	1,823.94	8.80	30.85	87.14	-5,431.33	3,252.66	6,303.02	6,263.39	39.63	159.043		
2,000.00	1,932.39	1,911.39	1,911.39	9.68	32.37	87.58	-5,431.33	3,252.66	6,300.47	6,258.43	42.04	149.868		
2,100.00	2,018.11	2,002.89	1,997.11	10.63	33.97	88.03	-5,431.33	3,252.66	6,298.17	6,253.58	44.59	141.249		
2,200.00	2,101.97	2,080.97	2,080.97	11.65	35.33	88.48	-5,431.33	3,252.66	6,296.19	6,249.22	46.97	134.036		
2,300.00	2,183.88	2,162.88	2,162.88	12.74	36.76	88.94	-5,431.33	3,252.66	6,294.62	6,245.12	49.50	127.171		
2,400.00	2,263.74	2,242.74	2,242.74	13.90	38.16	89.40	-5,431.33	3,252.66	6,293.53	6,241.47	52.06	120.896		
2,431.61	2,288.54	2,267.54	2,267.54	14.29	38.59	89.54	-5,431.33	3,252.66	6,293.30	6,240.43	52.87	119.027		
2,500.00	2,341.97	2,320.97	2,320.97	15.13	39.52	89.85	-5,431.33	3,252.66	6,293.01	6,238.36	54.65	115.158		
2,534.45	2,368.87	2,347.87	2,347.87	15.55	39.99	90.00	-5,431.33	3,252.66	6,292.97	6,237.43	55.55	113.294		
2,600.00	2,420.08	2,400.92	2,399.08	16.37	40.92	90.29	-5,431.33	3,252.66	6,293.10	6,235.82	57.29	109.852		
2,700.00	2,498.20	2,477.20	2,477.20	17.63	42.25	90.74	-5,431.33	3,252.66	6,293.82	6,233.94	59.88	105.115		
2,800.00	2,576.32	2,555.32	2,555.32	18.89	43.61	91.18	-5,431.33	3,252.66	6,295.15	6,232.65	62.51	100.714		
2,900.00	2,654.43	2,633.43	2,633.43	20.17	44.98	91.62	-5,431.33	3,252.66	6,297.11	6,231.97	65.14	96.668		
3,000.00	2,732.55	2,711.55	2,711.55	21.45	46.34	92.07	-5,431.33	3,252.66	6,299.68	6,231.90	67.78	92.940		
3,100.00	2,810.67	2,789.67	2,789.67	22.74	47.70	92.51	-5,431.33	3,252.66	6,302.87	6,232.44	70.43	89.495		
3,200.00	2,888.78	2,867.78	2,867.78	24.03	49.07	92.95	-5,431.33	3,252.66	6,306.67	6,233.60	73.07	86.306		
3,300.00	2,966.90	2,945.90	2,945.90	25.33	50.43	93.40	-5,431.33	3,252.66	6,311.09	6,235.37	75.72	83.347		
3,400.00	3,045.02	3,024.02	3,024.02	26.63	51.79	93.84	-5,431.33	3,252.66	6,316.13	6,237.76	78.37	80.595		
3,500.00	3,123.13	3,102.13	3,102.13	27.94	53.16	94.28	-5,431.33	3,252.66	6,321.78	6,240.76	81.01	78.032		
3,600.00	3,201.25	3,180.25	3,180.25	29.24	54.52	94.72	-5,431.33	3,252.66	6,328.04	6,244.38	83.66	75.640		
3,700.00	3,279.37	3,258.37	3,258.37	30.55	55.88	95.16	-5,431.33	3,252.66	6,334.90	6,248.60	86.30	73.403		
3,800.00	3,357.49	3,336.49	3,336.49	31.86	57.25	95.60	-5,431.33	3,252.66	6,342.38	6,253.43	88.94	71.308		
3,900.00	3,435.60	3,414.60	3,414.60	33.18	58.61	96.04	-5,431.33	3,252.66	6,350.46	6,258.88	91.58	69.343		
4,000.00	3,513.72	3,502.72	3,492.72	34.49	60.23	96.48	-5,431.33	3,252.66	6,359.14	6,264.67	94.47	67.315		
4,100.00	3,591.84	3,570.84	3,570.84	35.81	61.34	96.92	-5,431.33	3,252.66	6,368.42	6,271.58	96.84	65.760		
4,200.00	3,669.95	3,648.95	3,648.95	37.12	62.70	97.35	-5,431.33	3,252.66	6,378.30	6,278.84	99.47	64.125		
4,300.00	3,748.07	3,727.07	3,727.07	38.44	64.06	97.79	-5,431.33	3,252.66	6,388.78	6,286.69	102.09	62.582		
4,400.00	3,826.19	3,805.19	3,805.19	39.76	65.43	98.23	-5,431.33	3,252.66	6,399.84	6,295.14	104.70	61.126		
4,500.00	3,904.30	3,883.30	3,883.30	41.08	66.79	98.66	-5,431.33	3,252.66	6,411.50	6,304.19	107.31	59.749		
4,600.00	3,982.42	3,961.42	3,961.42	42.40	68.15	99.09	-5,431.33	3,252.66	6,423.74	6,313.83	109.91	58.446		
4,700.00	4,060.54	4,039.54	4,039.54	43.72	69.52	99.53	-5,431.33	3,252.66	6,436.57	6,324.06	112.51	57.211		
4,800.00	4,138.66	4,117.66	4,117.66	45.05	70.88	99.96	-5,431.33	3,252.66	6,449.97	6,334.87	115.09	56.041		
4,900.00	4,216.77	4,204.23	4,195.77	46.37	72.39	100.39	-5,431.33	3,252.66	6,463.95	6,346.12	117.82	54.861		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-IN-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,273.89	4,273.89	47.69	73.61	100.82	-5,431.33	3,252.66	6,478.49	6,358.24	120.25	53.875		
5,100.00	4,373.01	4,352.01	4,352.01	49.02	74.97	101.25	-5,431.33	3,252.66	6,493.61	6,370.79	122.82	52.872		
5,200.00	4,451.12	4,430.12	4,430.12	50.34	76.33	101.67	-5,431.33	3,252.66	6,509.29	6,383.92	125.38	51.918		
5,300.00	4,529.24	4,508.24	4,508.24	51.67	77.70	102.10	-5,431.33	3,252.66	6,525.53	6,397.61	127.93	51.010		
5,400.00	4,607.36	4,586.36	4,586.36	52.99	79.06	102.52	-5,431.33	3,252.66	6,542.33	6,411.86	130.47	50.144		
5,500.00	4,685.47	4,664.47	4,664.47	54.32	80.42	102.94	-5,431.33	3,252.66	6,559.68	6,426.67	133.01	49.319		
5,600.00	4,763.59	4,742.59	4,742.59	55.64	81.79	103.36	-5,431.33	3,252.66	6,577.57	6,442.04	135.53	48.532		
5,700.00	4,841.71	4,820.71	4,820.71	56.97	83.15	103.78	-5,431.33	3,252.66	6,596.01	6,457.96	138.05	47.780		
5,800.00	4,919.83	4,901.17	4,898.83	58.30	84.56	104.20	-5,431.33	3,252.66	6,614.98	6,474.38	140.60	47.049		
5,900.00	4,997.94	4,976.94	4,976.94	59.62	85.88	104.62	-5,431.33	3,252.66	6,634.49	6,491.43	143.06	46.376		
6,000.00	5,076.06	5,055.06	5,055.06	60.95	87.24	105.03	-5,431.33	3,252.66	6,654.52	6,508.98	145.55	45.721		
6,100.00	5,154.18	5,133.18	5,133.18	62.28	88.60	105.45	-5,431.33	3,252.66	6,675.08	6,527.05	148.03	45.093		
6,200.00	5,232.29	5,211.29	5,211.29	63.61	89.97	105.86	-5,431.33	3,252.66	6,696.16	6,545.66	150.50	44.492		
6,300.00	5,310.41	5,289.41	5,289.41	64.93	91.33	106.27	-5,431.33	3,252.66	6,717.75	6,564.79	152.96	43.917		
6,400.00	5,388.53	5,367.53	5,367.53	66.26	92.69	106.68	-5,431.33	3,252.66	6,739.86	6,584.44	155.42	43.366		
6,500.00	5,466.64	5,445.64	5,445.64	67.59	94.06	107.08	-5,431.33	3,252.66	6,762.46	6,604.60	157.86	42.838		
6,600.00	5,544.76	5,523.76	5,523.76	68.92	95.42	107.49	-5,431.33	3,252.66	6,785.57	6,625.27	160.29	42.332		
6,700.00	5,622.88	5,601.88	5,601.88	70.25	96.79	107.89	-5,431.33	3,252.66	6,809.17	6,646.45	162.72	41.846		
6,800.00	5,701.00	5,680.00	5,680.00	71.58	98.15	108.29	-5,431.33	3,252.66	6,833.26	6,668.12	165.13	41.380		
6,900.00	5,779.11	5,758.11	5,758.11	72.91	99.51	108.69	-5,431.33	3,252.66	6,857.83	6,690.29	167.54	40.933		
7,000.00	5,857.23	5,836.23	5,836.23	74.23	100.88	109.09	-5,431.33	3,252.66	6,882.88	6,712.95	169.93	40.504		
7,100.00	5,935.35	5,914.35	5,914.35	75.56	102.24	109.49	-5,431.33	3,252.66	6,908.40	6,736.09	172.32	40.091		
7,200.00	6,013.46	6,007.54	5,992.46	76.89	103.87	109.88	-5,431.33	3,252.66	6,934.39	6,759.44	174.96	39.635		
7,300.00	6,091.58	6,070.58	6,070.58	78.22	104.97	110.27	-5,431.33	3,252.66	6,960.85	6,783.79	177.06	39.314		
7,400.00	6,169.70	6,148.70	6,148.70	79.55	106.33	110.66	-5,431.33	3,252.66	6,987.76	6,808.35	179.41	38.948		
7,500.00	6,247.81	6,226.81	6,226.81	80.88	107.69	111.05	-5,431.33	3,252.66	7,015.13	6,833.37	181.76	38.596		
7,600.00	6,325.93	6,304.93	6,304.93	82.21	109.06	111.43	-5,431.33	3,252.66	7,042.94	6,858.85	184.09	38.257		
7,700.00	6,404.05	6,383.05	6,383.05	83.54	110.42	111.82	-5,431.33	3,252.66	7,071.19	6,884.77	186.42	37.931		
7,800.00	6,482.17	6,461.17	6,461.17	84.87	111.78	112.20	-5,431.33	3,252.66	7,099.88	6,911.15	188.74	37.618		
7,900.00	6,560.28	6,539.28	6,539.28	86.20	113.15	112.58	-5,431.33	3,252.66	7,129.01	6,937.96	191.04	37.316		
8,000.00	6,638.40	6,617.40	6,617.40	87.53	114.51	112.96	-5,431.33	3,252.66	7,158.55	6,965.21	193.34	37.026		
8,100.00	6,716.52	6,704.48	6,695.52	88.86	116.03	113.33	-5,431.33	3,252.66	7,188.52	6,992.74	195.78	36.717		
8,200.00	6,794.63	6,773.63	6,773.63	90.20	117.24	113.71	-5,431.33	3,252.66	7,218.91	7,021.00	197.90	36.477		
8,300.00	6,872.75	6,851.75	6,851.75	91.53	118.60	114.08	-5,431.33	3,252.66	7,249.70	7,049.53	200.17	36.217		
8,400.00	6,950.87	6,929.87	6,929.87	92.86	119.96	114.45	-5,431.33	3,252.66	7,280.90	7,078.47	202.43	35.967		
8,500.00	7,028.98	7,007.98	7,007.98	94.19	121.33	114.81	-5,431.33	3,252.66	7,312.50	7,107.82	204.68	35.726		
8,600.00	7,107.10	7,086.10	7,086.10	95.52	122.69	115.18	-5,431.33	3,252.66	7,344.50	7,137.58	206.92	35.494		
8,647.91	7,144.53	7,123.53	7,123.53	96.16	123.34	115.35	-5,431.33	3,252.66	7,359.96	7,151.97	207.99	35.386		
8,650.00	7,146.16	7,125.16	7,125.16	96.18	123.37	115.11	-5,431.33	3,252.66	7,360.64	7,152.60	208.04	35.381		
8,700.00	7,185.66	7,164.66	7,164.66	96.84	124.06	108.97	-5,431.33	3,252.66	7,374.63	7,165.46	209.17	35.257		
8,750.00	7,225.78	7,204.78	7,204.78	97.47	124.76	102.44	-5,431.33	3,252.66	7,384.51	7,174.19	210.32	35.111		
8,800.00	7,266.21	7,245.21	7,245.21	98.08	125.47	95.72	-5,431.33	3,252.66	7,390.22	7,178.73	211.49	34.944		
8,850.00	7,306.63	7,285.63	7,285.63	98.64	126.17	89.04	-5,431.33	3,252.66	7,391.71	7,179.06	212.65	34.759		
8,900.00	7,346.75	7,325.75	7,325.75	99.17	126.87	82.64	-5,431.33	3,252.66	7,388.99	7,175.18	213.81	34.559		
8,950.00	7,386.25	7,365.25	7,365.25	99.64	127.56	76.73	-5,431.33	3,252.66	7,382.07	7,167.13	214.94	34.345		
9,000.00	7,424.84	7,403.84	7,403.84	100.06	128.24	71.43	-5,431.33	3,252.66	7,371.01	7,154.97	216.04	34.119		
9,050.00	7,462.22	7,441.22	7,441.22	100.42	128.89	66.83	-5,431.33	3,252.66	7,355.88	7,138.79	217.09	33.883		
9,100.00	7,498.11	7,477.11	7,477.11	100.74	129.51	62.93	-5,431.33	3,252.66	7,336.81	7,118.71	218.10	33.640		
9,150.00	7,532.24	7,511.24	7,511.24	100.99	130.11	59.72	-5,431.33	3,252.66	7,313.93	7,094.88	219.05	33.390		
9,200.00	7,564.34	7,543.34	7,543.34	101.19	130.67	57.16	-5,431.33	3,252.66	7,287.40	7,067.47	219.93	33.135		
9,250.00	7,594.17	7,573.17	7,573.17	101.34	131.19	55.22	-5,431.33	3,252.66	7,257.42	7,036.67	220.75	32.877		
9,300.00	7,621.50	7,600.50	7,600.50	101.45	131.67	53.90	-5,431.33	3,252.66	7,224.20	7,002.72	221.48	32.617		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	7,625.13	7,625.13	101.50	132.10	53.20	-5,431.33	3,252.66	7,187.99	6,965.84	222.15	32.357		
9,400.00	7,667.87	7,646.87	7,646.87	101.51	132.48	53.16	-5,431.33	3,252.66	7,149.04	6,926.31	222.73	32.098		
9,450.00	7,686.55	7,665.55	7,665.55	101.48	132.80	53.90	-5,431.33	3,252.66	7,107.63	6,884.41	223.22	31.841		
9,500.00	7,702.04	7,681.04	7,681.04	101.42	133.07	55.63	-5,431.33	3,252.66	7,064.07	6,840.43	223.64	31.587		
9,550.00	7,714.20	7,706.80	7,693.20	101.33	133.52	58.76	-5,431.33	3,252.66	7,018.67	6,794.46	224.21	31.304		
9,600.00	7,722.96	7,701.96	7,701.96	101.20	133.44	64.11	-5,431.33	3,252.66	6,971.76	6,747.54	224.22	31.093		
9,650.00	7,728.24	7,707.24	7,707.24	101.06	133.53	73.37	-5,431.33	3,252.66	6,923.68	6,699.29	224.39	30.856		
9,699.97	7,730.00	7,709.00	7,709.00	100.90	133.56	90.00	-5,431.33	3,252.66	6,874.82	6,650.34	224.48	30.626		
9,800.00	7,730.00	7,709.00	7,709.00	100.56	133.56	90.00	-5,431.33	3,252.66	6,776.47	6,551.89	224.58	30.174		
9,900.00	7,730.00	7,709.00	7,709.00	100.24	133.56	90.00	-5,431.33	3,252.66	6,678.19	6,453.51	224.68	29.723		
10,000.00	7,730.00	7,709.00	7,709.00	99.93	133.56	90.00	-5,431.33	3,252.66	6,579.97	6,355.18	224.79	29.272		
10,100.00	7,730.00	7,709.00	7,709.00	99.64	133.56	90.00	-5,431.33	3,252.66	6,481.80	6,256.90	224.90	28.821		
10,200.00	7,730.00	7,709.00	7,709.00	99.36	133.56	90.00	-5,431.33	3,252.66	6,383.69	6,158.68	225.01	28.370		
10,300.00	7,730.00	7,709.00	7,709.00	99.09	133.56	90.00	-5,431.33	3,252.66	6,285.64	6,060.51	225.13	27.920		
10,400.00	7,730.00	7,709.00	7,709.00	98.84	133.56	90.00	-5,431.33	3,252.66	6,187.65	5,962.39	225.26	27.469		
10,500.00	7,730.00	7,709.00	7,709.00	98.61	133.56	90.00	-5,431.33	3,252.66	6,089.73	5,864.34	225.38	27.019		
10,600.00	7,730.00	7,709.00	7,709.00	98.39	133.56	90.00	-5,431.33	3,252.66	5,991.87	5,766.35	225.52	26.569		
10,700.00	7,730.00	7,709.00	7,709.00	98.18	133.56	90.00	-5,431.33	3,252.66	5,894.09	5,668.43	225.65	26.120		
10,800.00	7,730.00	7,709.00	7,709.00	97.99	133.56	90.00	-5,431.33	3,252.66	5,796.38	5,570.58	225.80	25.671		
10,900.00	7,730.00	7,709.00	7,709.00	97.81	133.56	90.00	-5,431.33	3,252.66	5,698.75	5,472.81	225.95	25.222		
11,000.00	7,730.00	7,709.00	7,709.00	97.64	133.56	90.00	-5,431.33	3,252.66	5,601.21	5,375.11	226.10	24.773		
11,100.00	7,730.00	7,709.00	7,709.00	97.50	133.56	90.00	-5,431.33	3,252.66	5,503.75	5,277.49	226.26	24.325		
11,200.00	7,730.00	7,709.00	7,709.00	97.36	133.56	90.00	-5,431.33	3,252.66	5,406.39	5,179.96	226.42	23.877		
11,300.00	7,730.00	7,709.00	7,709.00	97.24	133.56	90.00	-5,431.33	3,252.66	5,309.12	5,082.52	226.60	23.430		
11,400.00	7,730.00	7,709.00	7,709.00	97.14	133.56	90.00	-5,431.33	3,252.66	5,211.96	4,985.18	226.78	22.983		
11,500.00	7,730.00	7,709.00	7,709.00	97.06	133.56	90.00	-5,431.33	3,252.66	5,114.91	4,887.94	226.96	22.536		
11,600.00	7,730.00	7,709.00	7,709.00	96.98	133.56	90.00	-5,431.33	3,252.66	5,017.97	4,790.81	227.16	22.090		
11,700.00	7,730.00	7,709.00	7,709.00	96.93	133.56	90.00	-5,431.33	3,252.66	4,921.16	4,693.80	227.36	21.645		
11,800.00	7,730.00	7,709.00	7,709.00	96.90	133.56	90.00	-5,431.33	3,252.66	4,824.47	4,596.90	227.57	21.200		
11,900.00	7,730.00	7,709.00	7,709.00	96.88	133.56	90.00	-5,431.33	3,252.66	4,727.92	4,500.13	227.79	20.756		
12,000.00	7,730.00	7,709.00	7,709.00	96.88	133.56	90.00	-5,431.33	3,252.66	4,631.52	4,403.50	228.02	20.312		
12,100.00	7,730.00	7,709.00	7,709.00	96.90	133.56	90.00	-5,431.33	3,252.66	4,535.28	4,307.02	228.26	19.869		
12,200.00	7,730.00	7,709.00	7,709.00	96.94	133.56	90.00	-5,431.33	3,252.66	4,439.20	4,210.69	228.51	19.427		
12,300.00	7,730.00	7,709.00	7,709.00	97.00	133.56	90.00	-5,431.33	3,252.66	4,343.30	4,114.53	228.77	18.985		
12,400.00	7,730.00	7,709.00	7,709.00	97.08	133.56	90.00	-5,431.33	3,252.66	4,247.59	4,018.55	229.04	18.545		
12,500.00	7,730.00	7,709.00	7,709.00	97.18	133.56	90.00	-5,431.33	3,252.66	4,152.08	3,922.75	229.33	18.105		
12,600.00	7,730.00	7,709.00	7,709.00	97.31	133.56	90.00	-5,431.33	3,252.66	4,056.79	3,827.16	229.63	17.667		
12,700.00	7,730.00	7,709.00	7,709.00	97.46	133.56	90.00	-5,431.33	3,252.66	3,961.72	3,731.78	229.94	17.229		
12,800.00	7,730.00	7,709.00	7,709.00	97.64	133.56	90.00	-5,431.33	3,252.66	3,866.91	3,636.64	230.27	16.793		
12,900.00	7,730.00	7,709.00	7,709.00	97.85	133.56	90.00	-5,431.33	3,252.66	3,772.37	3,541.75	230.62	16.358		
13,000.00	7,730.00	7,709.00	7,709.00	98.09	133.56	90.00	-5,431.33	3,252.66	3,678.11	3,447.13	230.98	15.924		
13,100.00	7,730.00	7,709.00	7,709.00	98.35	133.56	90.00	-5,431.33	3,252.66	3,584.17	3,352.81	231.36	15.492		
13,200.00	7,730.00	7,709.00	7,709.00	98.65	133.56	90.00	-5,431.33	3,252.66	3,490.56	3,258.80	231.76	15.061		
13,300.00	7,730.00	7,709.00	7,709.00	98.98	133.56	90.00	-5,431.33	3,252.66	3,397.32	3,165.14	232.18	14.632		
13,400.00	7,730.00	7,709.00	7,709.00	99.34	133.56	90.00	-5,431.33	3,252.66	3,304.47	3,071.84	232.62	14.205		
13,500.00	7,730.00	7,709.00	7,709.00	99.74	133.56	90.00	-5,431.33	3,252.66	3,212.05	2,978.96	233.09	13.780		
13,600.00	7,730.00	7,709.00	7,709.00	100.17	133.56	90.00	-5,431.33	3,252.66	3,120.10	2,886.51	233.58	13.358		
13,700.00	7,730.00	7,709.00	7,709.00	100.65	133.56	90.00	-5,431.33	3,252.66	3,028.66	2,794.55	234.10	12.937		
13,800.00	7,730.00	7,709.00	7,709.00	101.16	133.56	90.00	-5,431.33	3,252.66	2,937.77	2,703.12	234.65	12.520		
13,900.00	7,730.00	7,709.00	7,709.00	101.71	133.56	90.00	-5,431.33	3,252.66	2,847.50	2,612.27	235.23	12.105		
14,000.00	7,730.00	7,709.00	7,709.00	102.30	133.56	90.00	-5,431.33	3,252.66	2,757.90	2,522.06	235.84	11.694		
14,100.00	7,730.00	7,709.00	7,709.00	102.93	133.56	90.00	-5,431.33	3,252.66	2,669.04	2,432.56	236.48	11.286		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	7,709.00	7,709.00	103.60	133.56	90.00	-5,431.33	3,252.66	2,580.99	2,343.83	237.16	10.883		
14,300.00	7,730.00	7,709.00	7,709.00	104.32	133.56	90.00	-5,431.33	3,252.66	2,493.84	2,255.97	237.88	10.484		
14,400.00	7,730.00	7,709.00	7,709.00	105.07	133.56	90.00	-5,431.33	3,252.66	2,407.70	2,169.07	238.63	10.090		
14,500.00	7,730.00	7,709.00	7,709.00	105.86	133.56	90.00	-5,431.33	3,252.66	2,322.66	2,083.24	239.43	9.701		
14,600.00	7,730.00	7,709.00	7,709.00	106.70	133.56	90.00	-5,431.33	3,252.66	2,238.86	1,998.60	240.26	9.319		
14,700.00	7,730.00	7,709.00	7,709.00	107.57	133.56	90.00	-5,431.33	3,252.66	2,156.44	1,915.31	241.13	8.943		
14,800.00	7,730.00	7,709.00	7,709.00	108.48	133.56	90.00	-5,431.33	3,252.66	2,075.57	1,833.53	242.04	8.575		
14,900.00	7,730.00	7,709.00	7,709.00	109.43	133.56	90.00	-5,431.33	3,252.66	1,996.43	1,753.44	242.99	8.216		
15,000.00	7,730.00	7,709.00	7,709.00	110.42	133.56	90.00	-5,431.33	3,252.66	1,919.24	1,675.27	243.97	7.867		
15,100.00	7,730.00	7,709.00	7,709.00	111.43	133.56	90.00	-5,431.33	3,252.66	1,844.25	1,599.28	244.97	7.528		
15,200.00	7,730.00	7,709.00	7,709.00	112.49	133.56	90.00	-5,431.33	3,252.66	1,771.72	1,525.74	245.98	7.203		
15,300.00	7,730.00	7,709.00	7,709.00	113.57	133.56	90.00	-5,431.33	3,252.66	1,701.98	1,454.99	246.99	6.891		
15,400.00	7,730.00	7,709.00	7,709.00	114.68	133.56	90.00	-5,431.33	3,252.66	1,635.39	1,387.41	247.98	6.595		
15,500.00	7,730.00	7,709.00	7,709.00	115.82	133.56	90.00	-5,431.33	3,252.66	1,572.34	1,323.42	248.92	6.317		
15,600.00	7,730.00	7,709.00	7,709.00	116.99	133.56	90.00	-5,431.33	3,252.66	1,513.27	1,263.50	249.77	6.059		
15,700.00	7,730.00	7,709.00	7,709.00	118.19	133.56	90.00	-5,431.33	3,252.66	1,458.68	1,208.18	250.50	5.823		
15,800.00	7,730.00	7,709.00	7,709.00	119.41	133.56	90.00	-5,431.33	3,252.66	1,409.08	1,158.03	251.05	5.613		
15,900.00	7,730.00	7,709.00	7,709.00	120.65	133.56	90.00	-5,431.33	3,252.66	1,365.01	1,113.64	251.37	5.430		
16,000.00	7,730.00	7,709.00	7,709.00	121.91	133.56	90.00	-5,431.33	3,252.66	1,327.03	1,075.61	251.41	5.278		
16,100.00	7,730.00	7,709.00	7,709.00	123.20	133.56	90.00	-5,431.33	3,252.66	1,295.66	1,044.54	251.12	5.160		
16,200.00	7,730.00	7,709.00	7,709.00	124.50	133.56	90.00	-5,431.33	3,252.66	1,271.41	1,020.97	250.45	5.077		
16,300.00	7,730.00	7,709.00	7,709.00	125.82	133.56	90.00	-5,431.33	3,252.66	1,254.69	1,005.32	249.37	5.031		
16,400.00	7,730.00	7,709.00	7,709.00	127.16	133.56	90.00	-5,431.33	3,252.66	1,245.79	997.90	247.89	5.026 SF		
16,461.25	7,730.00	7,709.00	7,709.00	127.99	133.56	90.00	-5,431.33	3,252.66	1,244.28	997.49	246.79	5.042 CC, ES		
16,500.00	7,730.00	7,709.00	7,709.00	128.52	133.56	90.00	-5,431.33	3,252.66	1,244.89	998.86	246.03	5.060		
16,600.00	7,730.00	7,709.00	7,709.00	129.89	133.56	90.00	-5,431.33	3,252.66	1,252.00	1,008.16	243.84	5.135		
16,700.00	7,730.00	7,709.00	7,709.00	131.27	133.56	90.00	-5,431.33	3,252.66	1,266.98	1,025.59	241.39	5.249		
16,800.00	7,730.00	7,709.00	7,709.00	132.67	133.56	90.00	-5,431.33	3,252.66	1,289.57	1,050.78	238.79	5.400		
16,900.00	7,730.00	7,709.00	7,709.00	134.09	133.56	90.00	-5,431.33	3,252.66	1,319.37	1,083.26	236.11	5.588		
17,000.00	7,730.00	7,709.00	7,709.00	135.51	133.56	90.00	-5,431.33	3,252.66	1,355.91	1,122.46	233.45	5.808		
17,100.00	7,730.00	7,709.00	7,709.00	136.95	133.56	90.00	-5,431.33	3,252.66	1,398.66	1,167.77	230.88	6.058		
17,200.00	7,730.00	7,709.00	7,709.00	138.40	133.56	90.00	-5,431.33	3,252.66	1,447.06	1,218.61	228.46	6.334		
17,300.00	7,730.00	7,709.00	7,709.00	139.85	133.56	90.00	-5,431.33	3,252.66	1,500.58	1,274.37	226.21	6.633		
17,400.00	7,730.00	7,709.00	7,709.00	141.32	133.56	90.00	-5,431.33	3,252.66	1,558.68	1,334.50	224.18	6.953		
17,500.00	7,730.00	7,709.00	7,709.00	142.80	133.56	90.00	-5,431.33	3,252.66	1,620.88	1,398.52	222.36	7.290		
17,600.00	7,730.00	7,709.00	7,709.00	144.28	133.56	90.00	-5,431.33	3,252.66	1,686.71	1,465.96	220.75	7.641		
17,700.00	7,730.00	7,709.00	7,709.00	145.78	133.56	90.00	-5,431.33	3,252.66	1,755.77	1,536.43	219.34	8.005		
17,800.00	7,730.00	7,709.00	7,709.00	147.28	133.56	90.00	-5,431.33	3,252.66	1,827.70	1,609.57	218.12	8.379		
17,900.00	7,730.00	7,709.00	7,709.00	148.79	133.56	90.00	-5,431.33	3,252.66	1,902.17	1,685.09	217.08	8.762		
18,000.00	7,730.00	7,709.00	7,709.00	150.31	133.56	90.00	-5,431.33	3,252.66	1,978.89	1,762.69	216.19	9.153		
18,100.00	7,730.00	7,709.00	7,709.00	151.83	133.56	90.00	-5,431.33	3,252.66	2,057.60	1,842.16	215.44	9.551		
18,200.00	7,730.00	7,709.00	7,709.00	153.37	133.56	90.00	-5,431.33	3,252.66	2,138.10	1,923.30	214.81	9.954		
18,300.00	7,730.00	7,709.00	7,709.00	154.90	133.56	90.00	-5,431.33	3,252.66	2,220.19	2,005.91	214.28	10.361		
18,400.00	7,730.00	7,709.00	7,709.00	156.45	133.56	90.00	-5,431.33	3,252.66	2,303.69	2,089.84	213.85	10.773		
18,500.00	7,730.00	7,709.00	7,709.00	158.00	133.56	90.00	-5,431.33	3,252.66	2,388.46	2,174.97	213.49	11.188		
18,600.00	7,730.00	7,709.00	7,709.00	159.55	133.56	90.00	-5,431.33	3,252.66	2,474.37	2,261.16	213.20	11.606		
18,700.00	7,730.00	7,709.00	7,709.00	161.11	133.56	90.00	-5,431.33	3,252.66	2,561.30	2,348.32	212.97	12.026		
18,800.00	7,730.00	7,709.00	7,709.00	162.68	133.56	90.00	-5,431.33	3,252.66	2,649.15	2,436.36	212.79	12.450		
18,900.00	7,730.00	7,709.00	7,709.00	164.25	133.56	90.00	-5,431.33	3,252.66	2,737.83	2,525.18	212.65	12.875		
19,000.00	7,730.00	7,709.00	7,709.00	165.83	133.56	90.00	-5,431.33	3,252.66	2,827.27	2,614.72	212.55	13.302		
19,100.00	7,730.00	7,709.00	7,709.00	167.41	133.56	90.00	-5,431.33	3,252.66	2,917.40	2,704.92	212.48	13.730		
19,200.00	7,730.00	7,709.00	7,709.00	168.99	133.56	90.00	-5,431.33	3,252.66	3,008.15	2,795.71	212.44	14.160		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SEARS 22-26 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	7,709.00	7,709.00	170.58	133.56	90.00	-5,431.33	3,252.66	3,099.47	2,887.06	212.42	14.592	
19,400.00	7,730.00	7,709.00	7,709.00	172.17	133.56	90.00	-5,431.33	3,252.66	3,191.31	2,978.90	212.41	15.024	
19,430.54	7,730.00	7,709.00	7,709.00	172.66	133.56	90.00	-5,431.33	3,252.66	3,219.45	3,007.04	212.42	15.156	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.41	-5,559.12	5,674.12	7,943.61					
100.00	100.00	62.00	62.00	0.13	0.51	134.41	-5,559.12	5,674.12	7,943.52	7,942.87	0.65	N/A		
200.00	200.00	162.00	162.00	0.49	1.91	134.41	-5,559.12	5,674.12	7,943.52	7,941.11	2.40	3,304.243		
300.00	300.00	262.00	262.00	0.85	3.66	134.41	-5,559.12	5,674.12	7,943.52	7,939.01	4.51	1,762.157		
400.00	400.00	362.00	362.00	1.21	5.40	134.41	-5,559.12	5,674.12	7,943.52	7,936.90	6.61	1,201.445		
500.00	500.00	462.00	462.00	1.57	7.15	134.41	-5,559.12	5,674.12	7,943.52	7,934.80	8.72	911.431		
600.00	599.98	561.98	561.98	1.92	8.89	69.09	-5,559.12	5,674.12	7,942.89	7,932.08	10.81	734.482		
700.00	699.84	661.84	661.84	2.28	10.63	69.16	-5,559.12	5,674.12	7,941.02	7,928.11	12.91	615.077		
800.00	799.45	761.45	761.45	2.64	12.37	69.27	-5,559.12	5,674.12	7,937.92	7,922.91	15.01	528.822		
900.00	898.70	860.70	860.70	3.02	14.11	69.44	-5,559.12	5,674.12	7,933.60	7,916.48	17.12	463.513		
1,000.00	997.47	959.47	959.47	3.41	15.83	69.64	-5,559.12	5,674.12	7,928.07	7,908.84	19.23	412.264		
1,100.00	1,095.62	1,057.62	1,057.62	3.84	17.54	69.90	-5,559.12	5,674.12	7,921.36	7,900.00	21.36	370.902		
1,200.00	1,193.06	1,155.06	1,155.06	4.29	19.24	70.19	-5,559.12	5,674.12	7,913.51	7,890.01	23.50	336.757		
1,300.00	1,289.64	1,251.64	1,251.64	4.78	20.93	70.54	-5,559.12	5,674.12	7,904.54	7,878.88	25.66	308.043		
1,400.00	1,385.27	1,347.27	1,347.27	5.32	22.60	70.92	-5,559.12	5,674.12	7,894.50	7,866.65	27.84	283.522		
1,500.00	1,479.82	1,441.82	1,441.82	5.90	24.25	71.34	-5,559.12	5,674.12	7,883.43	7,853.37	30.05	262.310		
1,600.00	1,573.17	1,535.17	1,535.17	6.53	25.88	71.81	-5,559.12	5,674.12	7,871.38	7,839.09	32.29	243.757		
1,700.00	1,665.21	1,627.21	1,627.21	7.23	27.48	72.31	-5,559.12	5,674.12	7,858.41	7,823.85	34.56	227.379		
1,800.00	1,755.84	1,717.84	1,717.84	7.98	29.07	72.84	-5,559.12	5,674.12	7,844.58	7,807.72	36.86	212.805		
1,900.00	1,844.94	1,806.94	1,806.94	8.80	30.62	73.41	-5,559.12	5,674.12	7,829.95	7,790.75	39.20	199.746		
2,000.00	1,932.39	1,905.61	1,894.39	9.68	32.34	74.01	-5,559.12	5,674.12	7,814.59	7,772.82	41.77	187.095		
2,100.00	2,018.11	1,980.11	1,980.11	10.63	33.64	74.64	-5,559.12	5,674.12	7,798.56	7,754.58	43.98	177.311		
2,200.00	2,101.97	2,063.97	2,063.97	11.65	35.11	75.29	-5,559.12	5,674.12	7,781.95	7,735.52	46.43	167.606		
2,300.00	2,183.88	2,145.88	2,145.88	12.74	36.54	75.97	-5,559.12	5,674.12	7,764.83	7,715.92	48.92	158.739		
2,400.00	2,263.74	2,225.74	2,225.74	13.90	37.93	76.67	-5,559.12	5,674.12	7,747.29	7,695.85	51.44	150.610		
2,431.61	2,288.54	2,250.54	2,250.54	14.29	38.36	76.89	-5,559.12	5,674.12	7,741.66	7,689.42	52.24	148.183		
2,500.00	2,341.97	2,303.97	2,303.97	15.13	39.30	77.14	-5,559.12	5,674.12	7,729.57	7,675.58	54.00	143.153		
2,600.00	2,420.08	2,382.08	2,382.08	16.37	40.66	77.49	-5,559.12	5,674.12	7,712.29	7,655.71	56.58	136.319		
2,700.00	2,498.20	2,460.20	2,460.20	17.63	42.02	77.85	-5,559.12	5,674.12	7,695.47	7,636.30	59.17	130.050		
2,800.00	2,576.32	2,538.32	2,538.32	18.89	43.39	78.21	-5,559.12	5,674.12	7,679.12	7,617.33	61.79	124.285		
2,900.00	2,654.43	2,616.43	2,616.43	20.17	44.75	78.58	-5,559.12	5,674.12	7,663.25	7,598.83	64.41	118.971		
3,000.00	2,732.55	2,705.45	2,694.55	21.45	46.30	78.94	-5,559.12	5,674.12	7,647.85	7,580.61	67.24	113.739		
3,100.00	2,810.67	2,772.67	2,772.67	22.74	47.48	79.30	-5,559.12	5,674.12	7,632.93	7,563.23	69.70	109.515		
3,200.00	2,888.78	2,850.78	2,850.78	24.03	48.84	79.66	-5,559.12	5,674.12	7,618.50	7,546.14	72.35	105.296		
3,300.00	2,966.90	2,928.90	2,928.90	25.33	50.20	80.03	-5,559.12	5,674.12	7,604.54	7,529.53	75.02	101.371		
3,400.00	3,045.02	3,007.02	3,007.02	26.63	51.57	80.40	-5,559.12	5,674.12	7,591.08	7,513.39	77.69	97.713		
3,500.00	3,123.13	3,085.13	3,085.13	27.94	52.93	80.76	-5,559.12	5,674.12	7,578.11	7,497.75	80.36	94.297		
3,600.00	3,201.25	3,163.25	3,163.25	29.24	54.29	81.13	-5,559.12	5,674.12	7,565.63	7,482.59	83.05	91.102		
3,700.00	3,279.37	3,241.37	3,241.37	30.55	55.66	81.50	-5,559.12	5,674.12	7,553.65	7,467.91	85.73	88.107		
3,800.00	3,357.49	3,319.49	3,319.49	31.86	57.02	81.87	-5,559.12	5,674.12	7,542.16	7,453.74	88.42	85.295		
3,900.00	3,435.60	3,402.40	3,397.60	33.18	58.47	82.24	-5,559.12	5,674.12	7,531.18	7,439.97	91.20	82.576		
4,000.00	3,513.72	3,475.72	3,475.72	34.49	59.75	82.61	-5,559.12	5,674.12	7,520.69	7,426.87	93.82	80.162		
4,100.00	3,591.84	3,553.84	3,553.84	35.81	61.11	82.98	-5,559.12	5,674.12	7,510.71	7,414.19	96.52	77.815		
4,200.00	3,669.95	3,631.95	3,631.95	37.12	62.47	83.35	-5,559.12	5,674.12	7,501.24	7,402.02	99.22	75.599		
4,300.00	3,748.07	3,710.07	3,710.07	38.44	63.84	83.72	-5,559.12	5,674.12	7,492.27	7,390.34	101.93	73.503		
4,400.00	3,826.19	3,788.19	3,788.19	39.76	65.20	84.09	-5,559.12	5,674.12	7,483.82	7,379.18	104.64	71.520		
4,500.00	3,904.30	3,866.30	3,866.30	41.08	66.56	84.46	-5,559.12	5,674.12	7,475.88	7,368.53	107.35	69.641		
4,600.00	3,982.42	3,944.42	3,944.42	42.40	67.93	84.84	-5,559.12	5,674.12	7,468.45	7,358.39	110.06	67.858		
4,700.00	4,060.54	4,022.54	4,022.54	43.72	69.29	85.21	-5,559.12	5,674.12	7,461.53	7,348.76	112.77	66.164		
4,800.00	4,138.66	4,100.66	4,100.66	45.05	70.65	85.59	-5,559.12	5,674.12	7,455.14	7,339.65	115.49	64.555		
4,900.00	4,216.77	4,178.77	4,178.77	46.37	72.02	85.96	-5,559.12	5,674.12	7,449.26	7,331.06	118.20	63.024		
5,000.00	4,294.89	4,256.89	4,256.89	47.69	73.38	86.34	-5,559.12	5,674.12	7,443.89	7,322.98	120.91	61.565		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,335.01	4,335.01	49.02	74.74	86.71	-5,559.12	5,674.12	7,439.05	7,315.43	123.62	60.176		
5,200.00	4,451.12	4,413.12	4,413.12	50.34	76.11	87.09	-5,559.12	5,674.12	7,434.73	7,308.40	126.33	58.850		
5,300.00	4,529.24	4,508.76	4,491.24	51.67	77.78	87.46	-5,559.12	5,674.12	7,430.94	7,301.59	129.35	57.448		
5,400.00	4,607.36	4,569.36	4,569.36	52.99	78.83	87.84	-5,559.12	5,674.12	7,427.66	7,295.91	131.75	56.375		
5,500.00	4,685.47	4,647.47	4,647.47	54.32	80.20	88.21	-5,559.12	5,674.12	7,424.91	7,290.45	134.46	55.220		
5,600.00	4,763.59	4,725.59	4,725.59	55.64	81.56	88.59	-5,559.12	5,674.12	7,422.68	7,285.52	137.17	54.114		
5,700.00	4,841.71	4,803.71	4,803.71	56.97	82.92	88.97	-5,559.12	5,674.12	7,420.98	7,281.11	139.87	53.056		
5,800.00	4,919.83	4,881.83	4,881.83	58.30	84.29	89.34	-5,559.12	5,674.12	7,419.80	7,277.23	142.57	52.043		
5,900.00	4,997.94	4,959.94	4,959.94	59.62	85.65	89.72	-5,559.12	5,674.12	7,419.15	7,273.88	145.27	51.072		
5,974.23	5,055.93	5,017.93	5,017.93	60.61	86.66	90.00	-5,559.12	5,674.12	7,419.00	7,271.73	147.27	50.377		
6,000.00	5,076.06	5,038.06	5,038.06	60.95	87.01	90.10	-5,559.12	5,674.12	7,419.02	7,271.06	147.96	50.141		
6,100.00	5,154.18	5,116.18	5,116.18	62.28	88.38	90.47	-5,559.12	5,674.12	7,419.42	7,268.76	150.66	49.248		
6,200.00	5,232.29	5,205.71	5,194.29	63.61	89.94	90.85	-5,559.12	5,674.12	7,420.34	7,266.80	153.54	48.328		
6,300.00	5,310.41	5,272.41	5,272.41	64.93	91.10	91.23	-5,559.12	5,674.12	7,421.79	7,265.76	156.03	47.567		
6,400.00	5,388.53	5,350.53	5,350.53	66.26	92.47	91.60	-5,559.12	5,674.12	7,423.76	7,265.06	158.71	46.776		
6,500.00	5,466.64	5,425.00	5,425.00	67.59	93.77	91.96	-5,559.12	5,674.12	7,426.26	7,264.94	161.32	46.034		
6,600.00	5,544.76	5,425.00	5,425.00	68.92	93.77	91.96	-5,559.12	5,674.12	7,429.73	7,267.12	162.61	45.690		
6,700.00	5,622.88	5,425.00	5,425.00	70.25	93.77	91.96	-5,559.12	5,674.12	7,434.55	7,270.67	163.88	45.366		
6,800.00	5,701.00	5,425.00	5,425.00	71.58	93.77	91.96	-5,559.12	5,674.12	7,440.70	7,275.58	165.13	45.061		
6,900.00	5,779.11	5,425.00	5,425.00	72.91	93.77	91.96	-5,559.12	5,674.12	7,448.19	7,281.85	166.35	44.776		
7,000.00	5,857.23	5,425.00	5,425.00	74.23	93.77	91.96	-5,559.12	5,674.12	7,457.02	7,289.48	167.54	44.509		
7,100.00	5,935.35	5,425.00	5,425.00	75.56	93.77	91.96	-5,559.12	5,674.12	7,467.18	7,298.47	168.71	44.261		
7,200.00	6,013.46	5,425.00	5,425.00	76.89	93.77	91.96	-5,559.12	5,674.12	7,478.65	7,308.80	169.85	44.030		
7,300.00	6,091.58	5,425.00	5,425.00	78.22	93.77	91.96	-5,559.12	5,674.12	7,491.45	7,320.48	170.97	43.817		
7,400.00	6,169.70	5,425.00	5,425.00	79.55	93.77	91.96	-5,559.12	5,674.12	7,505.56	7,333.50	172.06	43.622		
7,500.00	6,247.81	5,425.00	5,425.00	80.88	93.77	91.96	-5,559.12	5,674.12	7,520.97	7,347.84	173.12	43.443		
7,600.00	6,325.93	5,425.00	5,425.00	82.21	93.77	91.96	-5,559.12	5,674.12	7,537.67	7,363.51	174.16	43.280		
7,700.00	6,404.05	5,425.00	5,425.00	83.54	93.77	91.96	-5,559.12	5,674.12	7,555.66	7,380.49	175.17	43.133		
7,800.00	6,482.17	5,425.00	5,425.00	84.87	93.77	91.96	-5,559.12	5,674.12	7,574.93	7,398.78	176.15	43.002		
7,900.00	6,560.28	5,425.00	5,425.00	86.20	93.77	91.96	-5,559.12	5,674.12	7,595.47	7,418.36	177.11	42.886		
8,000.00	6,638.40	5,425.00	5,425.00	87.53	93.77	91.96	-5,559.12	5,674.12	7,617.26	7,439.23	178.03	42.785		
8,100.00	6,716.52	5,425.00	5,425.00	88.86	93.77	91.96	-5,559.12	5,674.12	7,640.31	7,461.37	178.93	42.699		
8,200.00	6,794.63	5,425.00	5,425.00	90.20	93.77	91.96	-5,559.12	5,674.12	7,664.58	7,484.78	179.81	42.627		
8,300.00	6,872.75	5,425.00	5,425.00	91.53	93.77	91.96	-5,559.12	5,674.12	7,690.08	7,509.43	180.65	42.568		
8,400.00	6,950.87	5,425.00	5,425.00	92.86	93.77	91.96	-5,559.12	5,674.12	7,716.80	7,535.33	181.47	42.524		
8,500.00	7,028.98	5,425.00	5,425.00	94.19	93.77	91.96	-5,559.12	5,674.12	7,744.71	7,562.45	182.26	42.492		
8,600.00	7,107.10	5,425.00	5,425.00	95.52	93.77	91.96	-5,559.12	5,674.12	7,773.81	7,590.78	183.03	42.474		
8,647.91	7,144.53	5,425.00	5,425.00	96.16	93.77	91.96	-5,559.12	5,674.12	7,788.16	7,604.78	183.38	42.469		
8,650.00	7,146.16	5,425.00	5,425.00	96.18	93.77	91.74	-5,559.12	5,674.12	7,788.79	7,605.39	183.40	42.469		
8,700.00	7,185.66	5,425.00	5,425.00	96.84	93.77	85.97	-5,559.12	5,674.12	7,801.91	7,618.15	183.76	42.457		
8,750.00	7,225.78	5,425.00	5,425.00	97.47	93.77	79.65	-5,559.12	5,674.12	7,811.28	7,627.18	184.10	42.429		
8,800.00	7,266.21	5,425.00	5,425.00	98.08	93.77	72.96	-5,559.12	5,674.12	7,816.85	7,632.43	184.42	42.385		
8,850.00	7,306.63	5,425.00	5,425.00	98.64	93.77	66.16	-5,559.12	5,674.12	7,818.58	7,633.86	184.72	42.327		
8,900.00	7,346.75	5,425.00	5,425.00	99.17	93.77	59.48	-5,559.12	5,674.12	7,816.45	7,631.47	184.98	42.257		
8,950.00	7,386.25	5,425.00	5,425.00	99.64	93.77	53.13	-5,559.12	5,674.12	7,810.49	7,625.29	185.20	42.174		
9,000.00	7,424.84	5,425.00	5,425.00	100.06	93.77	47.22	-5,559.12	5,674.12	7,800.72	7,615.34	185.38	42.080		
9,050.00	7,462.22	5,425.00	5,425.00	100.42	93.77	41.82	-5,559.12	5,674.12	7,787.21	7,601.69	185.52	41.975		
9,100.00	7,498.11	5,425.00	5,425.00	100.74	93.77	36.89	-5,559.12	5,674.12	7,770.05	7,584.43	185.62	41.861		
9,150.00	7,532.24	5,425.00	5,425.00	100.99	93.77	32.40	-5,559.12	5,674.12	7,749.33	7,563.66	185.67	41.737		
9,200.00	7,564.34	5,425.00	5,425.00	101.19	93.77	28.26	-5,559.12	5,674.12	7,725.20	7,539.51	185.69	41.603		
9,250.00	7,594.17	5,425.00	5,425.00	101.34	93.77	24.37	-5,559.12	5,674.12	7,697.79	7,512.13	185.66	41.461		
9,300.00	7,621.50	5,425.00	5,425.00	101.45	93.77	20.63	-5,559.12	5,674.12	7,667.29	7,481.69	185.60	41.310		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,425.00	5,425.00	101.50	93.77	16.91	-5,559.12	5,674.12	7,633.90	7,448.39	185.51	41.151		
9,400.00	7,667.87	5,425.00	5,425.00	101.51	93.77	13.07	-5,559.12	5,674.12	7,597.82	7,412.43	185.39	40.983		
9,450.00	7,686.55	5,425.00	5,425.00	101.48	93.77	8.93	-5,559.12	5,674.12	7,559.30	7,374.06	185.24	40.808		
9,500.00	7,702.04	5,425.00	5,425.00	101.42	93.77	4.25	-5,559.12	5,674.12	7,518.60	7,333.53	185.07	40.625		
9,550.00	7,714.20	5,425.00	5,425.00	101.33	93.77	-1.28	-5,559.12	5,674.12	7,475.99	7,291.10	184.89	40.434		
9,600.00	7,722.96	5,425.00	5,425.00	101.20	93.77	-8.07	-5,559.12	5,674.12	7,431.77	7,247.07	184.70	40.236		
9,650.00	7,728.24	5,425.00	5,425.00	101.06	93.77	-16.63	-5,559.12	5,674.12	7,386.25	7,201.74	184.51	40.032		
9,699.97	7,730.00	5,425.00	5,425.00	100.90	93.77	-27.45	-5,559.12	5,674.12	7,339.78	7,155.47	184.31	39.823		
9,800.00	7,730.00	5,425.00	5,425.00	100.56	93.77	-27.45	-5,559.12	5,674.12	7,246.09	7,062.17	183.92	39.399		
9,900.00	7,730.00	5,425.00	5,425.00	100.24	93.77	-27.45	-5,559.12	5,674.12	7,152.60	6,969.09	183.51	38.977		
10,000.00	7,730.00	5,425.00	5,425.00	99.93	93.77	-27.45	-5,559.12	5,674.12	7,059.28	6,876.19	183.09	38.556		
10,100.00	7,730.00	5,425.00	5,425.00	99.64	93.77	-27.45	-5,559.12	5,674.12	6,966.15	6,783.49	182.66	38.137		
10,200.00	7,730.00	5,425.00	5,425.00	99.36	93.77	-27.45	-5,559.12	5,674.12	6,873.22	6,691.00	182.22	37.719		
10,300.00	7,730.00	5,425.00	5,425.00	99.09	93.77	-27.45	-5,559.12	5,674.12	6,780.48	6,598.72	181.77	37.303		
10,400.00	7,730.00	5,425.00	5,425.00	98.84	93.77	-27.45	-5,559.12	5,674.12	6,687.96	6,506.66	181.30	36.889		
10,500.00	7,730.00	5,425.00	5,425.00	98.61	93.77	-27.45	-5,559.12	5,674.12	6,595.65	6,414.84	180.82	36.477		
10,600.00	7,730.00	5,425.00	5,425.00	98.39	93.77	-27.45	-5,559.12	5,674.12	6,503.57	6,323.25	180.32	36.067		
10,700.00	7,730.00	5,425.00	5,425.00	98.18	93.77	-27.45	-5,559.12	5,674.12	6,411.73	6,231.92	179.81	35.658		
10,800.00	7,730.00	5,425.00	5,425.00	97.99	93.77	-27.45	-5,559.12	5,674.12	6,320.14	6,140.85	179.28	35.252		
10,900.00	7,730.00	5,425.00	5,425.00	97.81	93.77	-27.45	-5,559.12	5,674.12	6,228.80	6,050.06	178.74	34.848		
11,000.00	7,730.00	5,425.00	5,425.00	97.64	93.77	-27.45	-5,559.12	5,674.12	6,137.74	5,959.55	178.18	34.446		
11,100.00	7,730.00	5,425.00	5,425.00	97.50	93.77	-27.45	-5,559.12	5,674.12	6,046.95	5,869.35	177.61	34.047		
11,200.00	7,730.00	5,425.00	5,425.00	97.36	93.77	-27.45	-5,559.12	5,674.12	5,956.46	5,779.45	177.01	33.650		
11,300.00	7,730.00	5,425.00	5,425.00	97.24	93.77	-27.45	-5,559.12	5,674.12	5,866.28	5,689.89	176.40	33.256		
11,400.00	7,730.00	5,425.00	5,425.00	97.14	93.77	-27.45	-5,559.12	5,674.12	5,776.43	5,600.66	175.76	32.865		
11,500.00	7,730.00	5,425.00	5,425.00	97.06	93.77	-27.45	-5,559.12	5,674.12	5,686.91	5,511.80	175.11	32.476		
11,600.00	7,730.00	5,425.00	5,425.00	96.98	93.77	-27.45	-5,559.12	5,674.12	5,597.75	5,423.31	174.44	32.090		
11,700.00	7,730.00	5,425.00	5,425.00	96.93	93.77	-27.45	-5,559.12	5,674.12	5,508.96	5,335.22	173.74	31.708		
11,800.00	7,730.00	5,425.00	5,425.00	96.90	93.77	-27.45	-5,559.12	5,674.12	5,420.56	5,247.53	173.02	31.328		
11,900.00	7,730.00	5,425.00	5,425.00	96.88	93.77	-27.45	-5,559.12	5,674.12	5,332.57	5,160.29	172.28	30.952		
12,000.00	7,730.00	5,425.00	5,425.00	96.88	93.77	-27.45	-5,559.12	5,674.12	5,245.01	5,073.49	171.52	30.580		
12,100.00	7,730.00	5,425.00	5,425.00	96.90	93.77	-27.45	-5,559.12	5,674.12	5,157.90	4,987.17	170.73	30.211		
12,200.00	7,730.00	5,425.00	5,425.00	96.94	93.77	-27.45	-5,559.12	5,674.12	5,071.27	4,901.36	169.91	29.846		
12,300.00	7,730.00	5,425.00	5,425.00	97.00	93.77	-27.45	-5,559.12	5,674.12	4,985.14	4,816.07	169.07	29.485		
12,400.00	7,730.00	5,425.00	5,425.00	97.08	93.77	-27.45	-5,559.12	5,674.12	4,899.53	4,731.33	168.20	29.129		
12,500.00	7,730.00	5,425.00	5,425.00	97.18	93.77	-27.45	-5,559.12	5,674.12	4,814.49	4,647.18	167.31	28.776		
12,600.00	7,730.00	5,425.00	5,425.00	97.31	93.77	-27.45	-5,559.12	5,674.12	4,730.02	4,563.64	166.38	28.428		
12,700.00	7,730.00	5,425.00	5,425.00	97.46	93.77	-27.45	-5,559.12	5,674.12	4,646.17	4,480.74	165.43	28.085		
12,800.00	7,730.00	5,425.00	5,425.00	97.64	93.77	-27.45	-5,559.12	5,674.12	4,562.98	4,398.53	164.45	27.747		
12,900.00	7,730.00	5,425.00	5,425.00	97.85	93.77	-27.45	-5,559.12	5,674.12	4,480.47	4,317.03	163.44	27.414		
13,000.00	7,730.00	5,425.00	5,425.00	98.09	93.77	-27.45	-5,559.12	5,674.12	4,398.69	4,236.29	162.40	27.086		
13,100.00	7,730.00	5,425.00	5,425.00	98.35	93.77	-27.45	-5,559.12	5,674.12	4,317.67	4,156.34	161.33	26.763		
13,200.00	7,730.00	5,425.00	5,425.00	98.65	93.77	-27.45	-5,559.12	5,674.12	4,237.46	4,077.23	160.23	26.446		
13,300.00	7,730.00	5,425.00	5,425.00	98.98	93.77	-27.45	-5,559.12	5,674.12	4,158.12	3,999.01	159.11	26.134		
13,400.00	7,730.00	5,425.00	5,425.00	99.34	93.77	-27.45	-5,559.12	5,674.12	4,079.68	3,921.72	157.95	25.828		
13,500.00	7,730.00	5,425.00	5,425.00	99.74	93.77	-27.45	-5,559.12	5,674.12	4,002.20	3,845.42	156.77	25.528		
13,600.00	7,730.00	5,425.00	5,425.00	100.17	93.77	-27.45	-5,559.12	5,674.12	3,925.74	3,770.17	155.57	25.234		
13,700.00	7,730.00	5,425.00	5,425.00	100.65	93.77	-27.45	-5,559.12	5,674.12	3,850.36	3,696.01	154.35	24.946		
13,800.00	7,730.00	5,425.00	5,425.00	101.16	93.77	-27.45	-5,559.12	5,674.12	3,776.12	3,623.02	153.10	24.664		
13,900.00	7,730.00	5,425.00	5,425.00	101.71	93.77	-27.45	-5,559.12	5,674.12	3,703.10	3,551.25	151.84	24.388		
14,000.00	7,730.00	5,425.00	5,425.00	102.30	93.77	-27.45	-5,559.12	5,674.12	3,631.36	3,480.78	150.57	24.117		
14,100.00	7,730.00	5,425.00	5,425.00	102.93	93.77	-27.45	-5,559.12	5,674.12	3,560.98	3,411.68	149.30	23.852		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,425.00	5,425.00	103.60	93.77	-27.45	-5,559.12	5,674.12	3,492.05	3,344.03	148.02	23.592		
14,300.00	7,730.00	5,425.00	5,425.00	104.32	93.77	-27.45	-5,559.12	5,674.12	3,424.65	3,277.90	146.75	23.336		
14,400.00	7,730.00	5,425.00	5,425.00	105.07	93.77	-27.45	-5,559.12	5,674.12	3,358.88	3,213.38	145.50	23.085		
14,500.00	7,730.00	5,425.00	5,425.00	105.86	93.77	-27.45	-5,559.12	5,674.12	3,294.83	3,150.56	144.27	22.838		
14,600.00	7,730.00	5,425.00	5,425.00	106.70	93.77	-27.45	-5,559.12	5,674.12	3,232.61	3,089.53	143.07	22.594		
14,700.00	7,730.00	5,425.00	5,425.00	107.57	93.77	-27.45	-5,559.12	5,674.12	3,172.31	3,030.39	141.92	22.352		
14,800.00	7,730.00	5,425.00	5,425.00	108.48	93.77	-27.45	-5,559.12	5,674.12	3,114.07	2,973.23	140.83	22.112		
14,900.00	7,730.00	5,425.00	5,425.00	109.43	93.77	-27.45	-5,559.12	5,674.12	3,057.98	2,918.17	139.81	21.872		
15,000.00	7,730.00	5,425.00	5,425.00	110.42	93.77	-27.45	-5,559.12	5,674.12	3,004.18	2,865.30	138.88	21.632		
15,100.00	7,730.00	5,425.00	5,425.00	111.43	93.77	-27.45	-5,559.12	5,674.12	2,952.78	2,814.74	138.04	21.391		
15,200.00	7,730.00	5,425.00	5,425.00	112.49	93.77	-27.45	-5,559.12	5,674.12	2,903.92	2,766.60	137.32	21.147		
15,300.00	7,730.00	5,425.00	5,425.00	113.57	93.77	-27.45	-5,559.12	5,674.12	2,857.72	2,721.00	136.73	20.901		
15,400.00	7,730.00	5,425.00	5,425.00	114.68	93.77	-27.45	-5,559.12	5,674.12	2,814.32	2,678.04	136.28	20.651		
15,500.00	7,730.00	5,425.00	5,425.00	115.82	93.77	-27.45	-5,559.12	5,674.12	2,773.85	2,637.86	135.99	20.398		
15,600.00	7,730.00	5,425.00	5,425.00	116.99	93.77	-27.45	-5,559.12	5,674.12	2,736.43	2,600.56	135.88	20.139		
15,700.00	7,730.00	5,425.00	5,425.00	118.19	93.77	-27.45	-5,559.12	5,674.12	2,702.20	2,566.25	135.95	19.876		
15,800.00	7,730.00	5,425.00	5,425.00	119.41	93.77	-27.45	-5,559.12	5,674.12	2,671.28	2,535.04	136.24	19.608		
15,900.00	7,730.00	5,425.00	5,425.00	120.65	93.77	-27.45	-5,559.12	5,674.12	2,643.78	2,507.04	136.73	19.335		
16,000.00	7,730.00	5,425.00	5,425.00	121.91	93.77	-27.45	-5,559.12	5,674.12	2,619.81	2,482.35	137.46	19.058		
16,100.00	7,730.00	5,425.00	5,425.00	123.20	93.77	-27.45	-5,559.12	5,674.12	2,599.47	2,461.04	138.43	18.778		
16,200.00	7,730.00	5,425.00	5,425.00	124.50	93.77	-27.45	-5,559.12	5,674.12	2,582.84	2,443.19	139.65	18.495		
16,300.00	7,730.00	5,425.00	5,425.00	125.82	93.77	-27.45	-5,559.12	5,674.12	2,570.00	2,428.88	141.12	18.212		
16,400.00	7,730.00	5,425.00	5,425.00	127.16	93.77	-27.45	-5,559.12	5,674.12	2,561.00	2,418.17	142.84	17.930		
16,500.00	7,730.00	5,425.00	5,425.00	128.52	93.77	-27.45	-5,559.12	5,674.12	2,555.89	2,411.09	144.80	17.651		
16,580.84	7,730.00	5,425.00	5,425.00	129.63	93.77	-27.45	-5,559.12	5,674.12	2,554.61	2,408.04	146.56	17.430 CC		
16,600.00	7,730.00	5,425.00	5,425.00	129.89	93.77	-27.45	-5,559.12	5,674.12	2,554.68	2,407.68	147.00	17.378 ES		
16,700.00	7,730.00	5,425.00	5,425.00	131.27	93.77	-27.45	-5,559.12	5,674.12	2,557.39	2,407.97	149.42	17.116		
16,800.00	7,730.00	5,425.00	5,425.00	132.67	93.77	-27.45	-5,559.12	5,674.12	2,563.99	2,411.97	152.03	16.865		
16,900.00	7,730.00	5,425.00	5,425.00	134.09	93.77	-27.45	-5,559.12	5,674.12	2,574.47	2,419.67	154.80	16.631		
17,000.00	7,730.00	5,425.00	5,425.00	135.51	93.77	-27.45	-5,559.12	5,674.12	2,588.77	2,431.08	157.69	16.417		
17,100.00	7,730.00	5,425.00	5,425.00	136.95	93.77	-27.45	-5,559.12	5,674.12	2,606.83	2,446.15	160.68	16.224		
17,200.00	7,730.00	5,425.00	5,425.00	138.40	93.77	-27.45	-5,559.12	5,674.12	2,628.57	2,464.85	163.72	16.055		
17,300.00	7,730.00	5,425.00	5,425.00	139.85	93.77	-27.45	-5,559.12	5,674.12	2,653.91	2,487.12	166.79	15.912		
17,400.00	7,730.00	5,425.00	5,425.00	141.32	93.77	-27.45	-5,559.12	5,674.12	2,682.73	2,512.89	169.84	15.796		
17,500.00	7,730.00	5,425.00	5,425.00	142.80	93.77	-27.45	-5,559.12	5,674.12	2,714.94	2,542.08	172.85	15.707		
17,600.00	7,730.00	5,425.00	5,425.00	144.28	93.77	-27.45	-5,559.12	5,674.12	2,750.40	2,574.60	175.80	15.645		
17,700.00	7,730.00	5,425.00	5,425.00	145.78	93.77	-27.45	-5,559.12	5,674.12	2,789.00	2,610.34	178.66	15.611		
17,800.00	7,730.00	5,425.00	5,425.00	147.28	93.77	-27.45	-5,559.12	5,674.12	2,830.61	2,649.19	181.42	15.602 SF		
17,900.00	7,730.00	5,425.00	5,425.00	148.79	93.77	-27.45	-5,559.12	5,674.12	2,875.10	2,691.03	184.07	15.620		
18,000.00	7,730.00	5,425.00	5,425.00	150.31	93.77	-27.45	-5,559.12	5,674.12	2,922.33	2,735.75	186.59	15.662		
18,100.00	7,730.00	5,425.00	5,425.00	151.83	93.77	-27.45	-5,559.12	5,674.12	2,972.18	2,783.20	188.98	15.727		
18,200.00	7,730.00	5,425.00	5,425.00	153.37	93.77	-27.45	-5,559.12	5,674.12	3,024.52	2,833.27	191.25	15.815		
18,300.00	7,730.00	5,425.00	5,425.00	154.90	93.77	-27.45	-5,559.12	5,674.12	3,079.21	2,885.83	193.38	15.923		
18,400.00	7,730.00	5,425.00	5,425.00	156.45	93.77	-27.45	-5,559.12	5,674.12	3,136.14	2,940.76	195.38	16.051		
18,500.00	7,730.00	5,425.00	5,425.00	158.00	93.77	-27.45	-5,559.12	5,674.12	3,195.18	2,997.93	197.25	16.198		
18,600.00	7,730.00	5,425.00	5,425.00	159.55	93.77	-27.45	-5,559.12	5,674.12	3,256.23	3,057.23	199.00	16.363		
18,700.00	7,730.00	5,425.00	5,425.00	161.11	93.77	-27.45	-5,559.12	5,674.12	3,319.17	3,118.53	200.64	16.543		
18,800.00	7,730.00	5,425.00	5,425.00	162.68	93.77	-27.45	-5,559.12	5,674.12	3,383.89	3,181.73	202.15	16.739		
18,900.00	7,730.00	5,425.00	5,425.00	164.25	93.77	-27.45	-5,559.12	5,674.12	3,450.29	3,246.73	203.56	16.950		
19,000.00	7,730.00	5,425.00	5,425.00	165.83	93.77	-27.45	-5,559.12	5,674.12	3,518.29	3,313.42	204.87	17.173		
19,100.00	7,730.00	5,425.00	5,425.00	167.41	93.77	-27.45	-5,559.12	5,674.12	3,587.78	3,381.70	206.08	17.410		
19,200.00	7,730.00	5,425.00	5,425.00	168.99	93.77	-27.45	-5,559.12	5,674.12	3,658.69	3,451.49	207.20	17.658		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 2 - OWB - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,425.00	5,425.00	170.58	93.77	-27.45	-5,559.12	5,674.12	3,730.93	3,522.69	208.24	17.917	
19,400.00	7,730.00	5,425.00	5,425.00	172.17	93.77	-27.45	-5,559.12	5,674.12	3,804.43	3,595.23	209.20	18.186	
19,430.54	7,730.00	5,425.00	5,425.00	172.66	93.77	-27.45	-5,559.12	5,674.12	3,827.11	3,617.64	209.47	18.270	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	134.22	-4,237.02	4,354.50	6,075.79					
100.00	100.00	66.00	66.00	0.13	0.52	134.22	-4,237.02	4,354.50	6,075.69	6,075.04	0.65	9,307.265		
200.00	200.00	166.00	166.00	0.49	1.94	134.22	-4,237.02	4,354.50	6,075.69	6,073.26	2.43	2,500.064		
300.00	300.00	266.00	266.00	0.85	3.68	134.22	-4,237.02	4,354.50	6,075.69	6,071.16	4.53	1,340.025		
400.00	400.00	366.00	366.00	1.21	5.43	134.22	-4,237.02	4,354.50	6,075.69	6,069.06	6.64	915.315		
500.00	500.00	466.00	466.00	1.57	7.17	134.22	-4,237.02	4,354.50	6,075.69	6,066.95	8.74	695.031		
600.00	599.98	565.98	565.98	1.92	8.92	68.89	-4,237.02	4,354.50	6,075.06	6,064.22	10.84	560.407		
700.00	699.84	665.84	665.84	2.28	10.66	68.97	-4,237.02	4,354.50	6,073.18	6,060.24	12.94	469.450		
800.00	799.45	765.45	765.45	2.64	12.40	69.11	-4,237.02	4,354.50	6,070.05	6,055.02	15.04	403.681		
900.00	898.70	864.70	864.70	3.02	14.13	69.30	-4,237.02	4,354.50	6,065.70	6,048.55	17.14	353.843		
1,000.00	997.47	963.47	963.47	3.41	15.86	69.54	-4,237.02	4,354.50	6,060.14	6,040.88	19.26	314.703		
1,100.00	1,095.62	1,061.62	1,061.62	3.84	17.57	69.83	-4,237.02	4,354.50	6,053.40	6,032.02	21.38	283.093		
1,200.00	1,193.06	1,159.06	1,159.06	4.29	19.27	70.18	-4,237.02	4,354.50	6,045.53	6,022.01	23.53	256.980		
1,300.00	1,289.64	1,255.64	1,255.64	4.78	20.96	70.57	-4,237.02	4,354.50	6,036.57	6,010.88	25.69	235.007		
1,400.00	1,385.27	1,351.27	1,351.27	5.32	22.62	71.01	-4,237.02	4,354.50	6,026.56	5,998.69	27.87	216.230		
1,500.00	1,479.82	1,445.82	1,445.82	5.90	24.27	71.50	-4,237.02	4,354.50	6,015.56	5,985.48	30.08	199.976		
1,600.00	1,573.17	1,539.17	1,539.17	6.53	25.90	72.03	-4,237.02	4,354.50	6,003.63	5,971.31	32.32	185.752		
1,700.00	1,665.21	1,631.21	1,631.21	7.23	27.51	72.61	-4,237.02	4,354.50	5,990.85	5,956.26	34.59	173.189		
1,800.00	1,755.84	1,721.84	1,721.84	7.98	29.09	73.22	-4,237.02	4,354.50	5,977.28	5,940.38	36.90	162.003		
1,900.00	1,844.94	1,810.94	1,810.94	8.80	30.65	73.88	-4,237.02	4,354.50	5,963.00	5,923.76	39.24	151.976		
2,000.00	1,932.39	1,901.61	1,901.61	9.68	32.23	74.56	-4,237.02	4,354.50	5,948.09	5,906.42	41.67	142.743		
2,100.00	2,018.11	1,984.11	1,984.11	10.63	33.67	75.28	-4,237.02	4,354.50	5,932.65	5,888.62	44.03	134.742		
2,200.00	2,101.97	2,067.97	2,067.97	11.65	35.13	76.03	-4,237.02	4,354.50	5,916.76	5,870.28	46.48	127.284		
2,300.00	2,183.88	2,149.88	2,149.88	12.74	36.56	76.80	-4,237.02	4,354.50	5,900.53	5,851.55	48.98	120.470		
2,400.00	2,263.74	2,229.74	2,229.74	13.90	37.96	77.58	-4,237.02	4,354.50	5,884.05	5,832.54	51.51	114.224		
2,431.61	2,288.54	2,254.54	2,254.54	14.29	38.39	77.84	-4,237.02	4,354.50	5,878.81	5,826.49	52.32	112.359		
2,500.00	2,341.97	2,307.97	2,307.97	15.13	39.32	78.16	-4,237.02	4,354.50	5,867.60	5,813.52	54.08	108.496		
2,600.00	2,420.08	2,386.08	2,386.08	16.37	40.69	78.63	-4,237.02	4,354.50	5,851.72	5,795.05	56.67	103.252		
2,700.00	2,498.20	2,464.20	2,464.20	17.63	42.05	79.11	-4,237.02	4,354.50	5,836.48	5,777.19	59.29	98.446		
2,800.00	2,576.32	2,542.32	2,542.32	18.89	43.41	79.58	-4,237.02	4,354.50	5,821.86	5,759.94	61.91	94.032		
2,900.00	2,654.43	2,620.43	2,620.43	20.17	44.78	80.06	-4,237.02	4,354.50	5,807.87	5,743.32	64.55	89.969		
3,000.00	2,732.55	2,701.45	2,698.55	21.45	46.19	80.54	-4,237.02	4,354.50	5,794.53	5,727.27	67.26	86.155		
3,100.00	2,810.67	2,776.67	2,776.67	22.74	47.50	81.02	-4,237.02	4,354.50	5,781.82	5,711.96	69.87	82.754		
3,200.00	2,888.78	2,854.78	2,854.78	24.03	48.87	81.50	-4,237.02	4,354.50	5,769.77	5,697.23	72.54	79.541		
3,300.00	2,966.90	2,932.90	2,932.90	25.33	50.23	81.98	-4,237.02	4,354.50	5,758.37	5,683.15	75.22	76.558		
3,400.00	3,045.02	3,011.02	3,011.02	26.63	51.59	82.47	-4,237.02	4,354.50	5,747.62	5,669.72	77.90	73.782		
3,500.00	3,123.13	3,089.13	3,089.13	27.94	52.96	82.95	-4,237.02	4,354.50	5,737.53	5,656.94	80.59	71.195		
3,600.00	3,201.25	3,167.25	3,167.25	29.24	54.32	83.44	-4,237.02	4,354.50	5,728.10	5,644.82	83.28	68.779		
3,700.00	3,279.37	3,245.37	3,245.37	30.55	55.68	83.93	-4,237.02	4,354.50	5,719.34	5,633.36	85.98	66.519		
3,800.00	3,357.49	3,323.49	3,323.49	31.86	57.05	84.41	-4,237.02	4,354.50	5,711.25	5,622.57	88.68	64.402		
3,900.00	3,435.60	3,401.60	3,401.60	33.18	58.41	84.90	-4,237.02	4,354.50	5,703.84	5,612.45	91.38	62.416		
4,000.00	3,513.72	3,479.72	3,479.72	34.49	59.77	85.39	-4,237.02	4,354.50	5,697.09	5,603.00	94.09	60.550		
4,100.00	3,591.84	3,557.84	3,557.84	35.81	61.14	85.88	-4,237.02	4,354.50	5,691.02	5,594.23	96.79	58.795		
4,200.00	3,669.95	3,635.95	3,635.95	37.12	62.50	86.37	-4,237.02	4,354.50	5,685.64	5,586.14	99.50	57.142		
4,300.00	3,748.07	3,714.07	3,714.07	38.44	63.86	86.87	-4,237.02	4,354.50	5,680.93	5,578.72	102.21	55.583		
4,400.00	3,826.19	3,807.81	3,792.19	39.76	65.50	87.36	-4,237.02	4,354.50	5,676.90	5,571.72	105.18	53.971		
4,500.00	3,904.30	3,870.30	3,870.30	41.08	66.59	87.85	-4,237.02	4,354.50	5,673.56	5,565.95	107.62	52.721		
4,600.00	3,982.42	3,948.42	3,948.42	42.40	67.95	88.34	-4,237.02	4,354.50	5,670.91	5,560.59	110.32	51.405		
4,700.00	4,060.54	4,026.54	4,026.54	43.72	69.32	88.83	-4,237.02	4,354.50	5,668.94	5,555.92	113.02	50.160		
4,800.00	4,138.66	4,104.66	4,104.66	45.05	70.68	89.33	-4,237.02	4,354.50	5,667.66	5,551.95	115.71	48.980		
4,900.00	4,216.77	4,182.77	4,182.77	46.37	72.04	89.82	-4,237.02	4,354.50	5,667.07	5,548.66	118.41	47.860		
4,936.32	4,245.15	4,211.15	4,211.15	46.85	72.54	90.00	-4,237.02	4,354.50	5,667.02	5,547.64	119.39	47.468		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,260.89	4,260.89	47.69	73.41	90.31	-4,237.02	4,354.50	5,667.16	5,546.06	121.10	46.798		
5,100.00	4,373.01	4,339.01	4,339.01	49.02	74.77	90.81	-4,237.02	4,354.50	5,667.94	5,544.16	123.78	45.789		
5,200.00	4,451.12	4,417.12	4,417.12	50.34	76.13	91.30	-4,237.02	4,354.50	5,669.41	5,542.95	126.46	44.830		
5,300.00	4,529.24	4,504.76	4,495.24	51.67	77.66	91.79	-4,237.02	4,354.50	5,671.57	5,542.26	129.31	43.861		
5,400.00	4,607.36	4,573.36	4,573.36	52.99	78.86	92.29	-4,237.02	4,354.50	5,674.41	5,542.60	131.81	43.050		
5,500.00	4,685.47	4,651.47	4,651.47	54.32	80.22	92.78	-4,237.02	4,354.50	5,677.94	5,543.46	134.47	42.223		
5,600.00	4,763.59	4,729.59	4,729.59	55.64	81.59	93.27	-4,237.02	4,354.50	5,682.15	5,545.02	137.13	41.436		
5,700.00	4,841.71	4,807.71	4,807.71	56.97	82.95	93.76	-4,237.02	4,354.50	5,687.04	5,547.26	139.78	40.685		
5,800.00	4,919.83	4,885.83	4,885.83	58.30	84.31	94.25	-4,237.02	4,354.50	5,692.62	5,550.19	142.43	39.969		
5,900.00	4,997.94	4,963.94	4,963.94	59.62	85.68	94.74	-4,237.02	4,354.50	5,698.87	5,553.81	145.06	39.286		
6,000.00	5,076.06	5,042.06	5,042.06	60.95	87.04	95.23	-4,237.02	4,354.50	5,705.80	5,558.11	147.69	38.634		
6,100.00	5,154.18	5,120.18	5,120.18	62.28	88.40	95.72	-4,237.02	4,354.50	5,713.40	5,563.09	150.31	38.011		
6,200.00	5,232.29	5,201.71	5,198.29	63.61	89.83	96.21	-4,237.02	4,354.50	5,721.67	5,568.70	152.98	37.402		
6,300.00	5,310.41	5,276.41	5,276.41	64.93	91.13	96.69	-4,237.02	4,354.50	5,730.62	5,575.10	155.52	36.848		
6,400.00	5,388.53	5,354.53	5,354.53	66.26	92.49	97.18	-4,237.02	4,354.50	5,740.22	5,582.11	158.11	36.305		
6,500.00	5,466.64	5,432.64	5,432.64	67.59	93.86	97.66	-4,237.02	4,354.50	5,750.49	5,589.80	160.69	35.785		
6,600.00	5,544.76	5,450.00	5,450.00	68.92	94.16	97.77	-4,237.02	4,354.50	5,761.74	5,599.56	162.18	35.526		
6,700.00	5,622.88	5,450.00	5,450.00	70.25	94.16	97.77	-4,237.02	4,354.50	5,774.67	5,611.35	163.32	35.358		
6,800.00	5,701.00	5,450.00	5,450.00	71.58	94.16	97.77	-4,237.02	4,354.50	5,789.30	5,624.88	164.42	35.210		
6,900.00	5,779.11	5,450.00	5,450.00	72.91	94.16	97.77	-4,237.02	4,354.50	5,805.62	5,640.14	165.48	35.084		
7,000.00	5,857.23	5,450.00	5,450.00	74.23	94.16	97.77	-4,237.02	4,354.50	5,823.61	5,657.11	166.49	34.978		
7,100.00	5,935.35	5,450.00	5,450.00	75.56	94.16	97.77	-4,237.02	4,354.50	5,843.25	5,675.78	167.47	34.892		
7,200.00	6,013.46	5,450.00	5,450.00	76.89	94.16	97.77	-4,237.02	4,354.50	5,864.53	5,696.14	168.40	34.825		
7,300.00	6,091.58	5,450.00	5,450.00	78.22	94.16	97.77	-4,237.02	4,354.50	5,887.44	5,718.15	169.29	34.778		
7,400.00	6,169.70	5,450.00	5,450.00	79.55	94.16	97.77	-4,237.02	4,354.50	5,911.95	5,741.81	170.13	34.749		
7,500.00	6,247.81	5,450.00	5,450.00	80.88	94.16	97.77	-4,237.02	4,354.50	5,938.04	5,767.10	170.94	34.737		
7,600.00	6,325.93	5,450.00	5,450.00	82.21	94.16	97.77	-4,237.02	4,354.50	5,965.69	5,793.99	171.71	34.744		
7,700.00	6,404.05	5,450.00	5,450.00	83.54	94.16	97.77	-4,237.02	4,354.50	5,994.89	5,822.46	172.43	34.767		
7,800.00	6,482.17	5,450.00	5,450.00	84.87	94.16	97.77	-4,237.02	4,354.50	6,025.60	5,852.49	173.11	34.807		
7,900.00	6,560.28	5,450.00	5,450.00	86.20	94.16	97.77	-4,237.02	4,354.50	6,057.81	5,884.05	173.76	34.863		
8,000.00	6,638.40	5,450.00	5,450.00	87.53	94.16	97.77	-4,237.02	4,354.50	6,091.49	5,917.12	174.37	34.935		
8,100.00	6,716.52	5,450.00	5,450.00	88.86	94.16	97.77	-4,237.02	4,354.50	6,126.62	5,951.68	174.94	35.022		
8,200.00	6,794.63	5,450.00	5,450.00	90.20	94.16	97.77	-4,237.02	4,354.50	6,163.16	5,987.70	175.47	35.124		
8,300.00	6,872.75	5,450.00	5,450.00	91.53	94.16	97.77	-4,237.02	4,354.50	6,201.11	6,025.15	175.97	35.240		
8,400.00	6,950.87	5,450.00	5,450.00	92.86	94.16	97.77	-4,237.02	4,354.50	6,240.43	6,064.00	176.43	35.371		
8,500.00	7,028.98	5,450.00	5,450.00	94.19	94.16	97.77	-4,237.02	4,354.50	6,281.09	6,104.24	176.86	35.515		
8,600.00	7,107.10	5,450.00	5,450.00	95.52	94.16	97.77	-4,237.02	4,354.50	6,323.08	6,145.83	177.25	35.673		
8,647.91	7,144.53	5,450.00	5,450.00	96.16	94.16	97.77	-4,237.02	4,354.50	6,343.65	6,166.22	177.43	35.753		
8,650.00	7,146.16	5,450.00	5,450.00	96.18	94.16	97.55	-4,237.02	4,354.50	6,344.56	6,167.12	177.44	35.756		
8,700.00	7,185.66	5,450.00	5,450.00	96.84	94.16	91.81	-4,237.02	4,354.50	6,364.25	6,186.63	177.61	35.832		
8,750.00	7,225.78	5,450.00	5,450.00	97.47	94.16	85.54	-4,237.02	4,354.50	6,380.30	6,202.52	177.78	35.890		
8,800.00	7,266.21	5,450.00	5,450.00	98.08	94.16	78.93	-4,237.02	4,354.50	6,392.60	6,214.68	177.92	35.930		
8,850.00	7,306.63	5,450.00	5,450.00	98.64	94.16	72.24	-4,237.02	4,354.50	6,401.10	6,223.05	178.04	35.953		
8,900.00	7,346.75	5,450.00	5,450.00	99.17	94.16	65.72	-4,237.02	4,354.50	6,405.73	6,227.59	178.13	35.960		
8,950.00	7,386.25	5,450.00	5,450.00	99.64	94.16	59.56	-4,237.02	4,354.50	6,406.47	6,228.27	178.20	35.951		
9,000.00	7,424.84	5,450.00	5,450.00	100.06	94.16	53.89	-4,237.02	4,354.50	6,403.32	6,225.09	178.23	35.928		
9,050.00	7,462.22	5,450.00	5,450.00	100.42	94.16	48.77	-4,237.02	4,354.50	6,396.30	6,218.07	178.22	35.889		
9,100.00	7,498.11	5,450.00	5,450.00	100.74	94.16	44.21	-4,237.02	4,354.50	6,385.44	6,207.25	178.19	35.836		
9,150.00	7,532.24	5,450.00	5,450.00	100.99	94.16	40.15	-4,237.02	4,354.50	6,370.81	6,192.70	178.11	35.768		
9,200.00	7,564.34	5,450.00	5,450.00	101.19	94.16	36.54	-4,237.02	4,354.50	6,352.50	6,174.49	178.01	35.687		
9,250.00	7,594.17	5,450.00	5,450.00	101.34	94.16	33.30	-4,237.02	4,354.50	6,330.61	6,152.74	177.87	35.591		
9,300.00	7,621.50	5,450.00	5,450.00	101.45	94.16	30.36	-4,237.02	4,354.50	6,305.27	6,127.57	177.70	35.482		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,450.00	5,450.00	101.50	94.16	27.63	-4,237.02	4,354.50	6,276.64	6,099.12	177.52	35.358		
9,400.00	7,667.87	5,450.00	5,450.00	101.51	94.16	25.03	-4,237.02	4,354.50	6,244.89	6,067.58	177.31	35.221		
9,450.00	7,686.55	5,450.00	5,450.00	101.48	94.16	22.47	-4,237.02	4,354.50	6,210.21	6,033.13	177.08	35.070		
9,500.00	7,702.04	5,450.00	5,450.00	101.42	94.16	19.81	-4,237.02	4,354.50	6,172.83	5,995.99	176.84	34.905		
9,550.00	7,714.20	5,450.00	5,450.00	101.33	94.16	16.91	-4,237.02	4,354.50	6,132.98	5,956.38	176.60	34.727		
9,600.00	7,722.96	5,450.00	5,450.00	101.20	94.16	13.53	-4,237.02	4,354.50	6,090.92	5,914.55	176.36	34.536		
9,650.00	7,728.24	5,450.00	5,450.00	101.06	94.16	9.33	-4,237.02	4,354.50	6,046.92	5,870.79	176.13	34.333		
9,699.97	7,730.00	5,450.00	5,450.00	100.90	94.16	3.73	-4,237.02	4,354.50	6,001.31	5,825.41	175.90	34.117		
9,800.00	7,730.00	5,450.00	5,450.00	100.56	94.16	3.73	-4,237.02	4,354.50	5,908.70	5,733.24	175.46	33.675		
9,900.00	7,730.00	5,450.00	5,450.00	100.24	94.16	3.73	-4,237.02	4,354.50	5,816.37	5,641.36	175.00	33.236		
10,000.00	7,730.00	5,450.00	5,450.00	99.93	94.16	3.73	-4,237.02	4,354.50	5,724.29	5,549.77	174.52	32.800		
10,100.00	7,730.00	5,450.00	5,450.00	99.64	94.16	3.73	-4,237.02	4,354.50	5,632.48	5,458.46	174.02	32.366		
10,200.00	7,730.00	5,450.00	5,450.00	99.36	94.16	3.73	-4,237.02	4,354.50	5,540.96	5,367.45	173.50	31.936		
10,300.00	7,730.00	5,450.00	5,450.00	99.09	94.16	3.73	-4,237.02	4,354.50	5,449.73	5,276.77	172.96	31.509		
10,400.00	7,730.00	5,450.00	5,450.00	98.84	94.16	3.73	-4,237.02	4,354.50	5,358.82	5,186.43	172.39	31.085		
10,500.00	7,730.00	5,450.00	5,450.00	98.61	94.16	3.73	-4,237.02	4,354.50	5,268.23	5,096.43	171.80	30.666		
10,600.00	7,730.00	5,450.00	5,450.00	98.39	94.16	3.73	-4,237.02	4,354.50	5,177.99	5,006.82	171.18	30.250		
10,700.00	7,730.00	5,450.00	5,450.00	98.18	94.16	3.73	-4,237.02	4,354.50	5,088.12	4,917.59	170.53	29.838		
10,800.00	7,730.00	5,450.00	5,450.00	97.99	94.16	3.73	-4,237.02	4,354.50	4,998.63	4,828.78	169.85	29.430		
10,900.00	7,730.00	5,450.00	5,450.00	97.81	94.16	3.73	-4,237.02	4,354.50	4,909.55	4,740.41	169.14	29.027		
11,000.00	7,730.00	5,450.00	5,450.00	97.64	94.16	3.73	-4,237.02	4,354.50	4,820.90	4,652.50	168.39	28.629		
11,100.00	7,730.00	5,450.00	5,450.00	97.50	94.16	3.73	-4,237.02	4,354.50	4,732.69	4,565.08	167.61	28.236		
11,200.00	7,730.00	5,450.00	5,450.00	97.36	94.16	3.73	-4,237.02	4,354.50	4,644.97	4,478.18	166.79	27.849		
11,300.00	7,730.00	5,450.00	5,450.00	97.24	94.16	3.73	-4,237.02	4,354.50	4,557.75	4,391.82	165.93	27.468		
11,400.00	7,730.00	5,450.00	5,450.00	97.14	94.16	3.73	-4,237.02	4,354.50	4,471.07	4,306.04	165.03	27.093		
11,500.00	7,730.00	5,450.00	5,450.00	97.06	94.16	3.73	-4,237.02	4,354.50	4,384.95	4,220.87	164.08	26.725		
11,600.00	7,730.00	5,450.00	5,450.00	96.98	94.16	3.73	-4,237.02	4,354.50	4,299.44	4,136.36	163.08	26.364		
11,700.00	7,730.00	5,450.00	5,450.00	96.93	94.16	3.73	-4,237.02	4,354.50	4,214.56	4,052.53	162.03	26.011		
11,800.00	7,730.00	5,450.00	5,450.00	96.90	94.16	3.73	-4,237.02	4,354.50	4,130.36	3,969.44	160.93	25.666		
11,900.00	7,730.00	5,450.00	5,450.00	96.88	94.16	3.73	-4,237.02	4,354.50	4,046.88	3,887.12	159.76	25.331		
12,000.00	7,730.00	5,450.00	5,450.00	96.88	94.16	3.73	-4,237.02	4,354.50	3,964.16	3,805.63	158.54	25.005		
12,100.00	7,730.00	5,450.00	5,450.00	96.90	94.16	3.73	-4,237.02	4,354.50	3,882.26	3,725.01	157.25	24.689		
12,200.00	7,730.00	5,450.00	5,450.00	96.94	94.16	3.73	-4,237.02	4,354.50	3,801.22	3,645.34	155.89	24.384		
12,300.00	7,730.00	5,450.00	5,450.00	97.00	94.16	3.73	-4,237.02	4,354.50	3,721.11	3,566.66	154.45	24.092		
12,400.00	7,730.00	5,450.00	5,450.00	97.08	94.16	3.73	-4,237.02	4,354.50	3,641.98	3,489.04	152.94	23.813		
12,500.00	7,730.00	5,450.00	5,450.00	97.18	94.16	3.73	-4,237.02	4,354.50	3,563.90	3,412.55	151.35	23.547		
12,600.00	7,730.00	5,450.00	5,450.00	97.31	94.16	3.73	-4,237.02	4,354.50	3,486.94	3,337.26	149.67	23.297		
12,700.00	7,730.00	5,450.00	5,450.00	97.46	94.16	3.73	-4,237.02	4,354.50	3,411.17	3,263.27	147.90	23.063		
12,800.00	7,730.00	5,450.00	5,450.00	97.64	94.16	3.73	-4,237.02	4,354.50	3,336.68	3,190.64	146.04	22.848		
12,900.00	7,730.00	5,450.00	5,450.00	97.85	94.16	3.73	-4,237.02	4,354.50	3,263.56	3,119.48	144.08	22.651		
13,000.00	7,730.00	5,450.00	5,450.00	98.09	94.16	3.73	-4,237.02	4,354.50	3,191.89	3,049.87	142.02	22.475		
13,100.00	7,730.00	5,450.00	5,450.00	98.35	94.16	3.73	-4,237.02	4,354.50	3,121.78	2,981.93	139.85	22.322		
13,200.00	7,730.00	5,450.00	5,450.00	98.65	94.16	3.73	-4,237.02	4,354.50	3,053.34	2,915.76	137.58	22.193		
13,300.00	7,730.00	5,450.00	5,450.00	98.98	94.16	3.73	-4,237.02	4,354.50	2,986.67	2,851.48	135.20	22.091		
13,400.00	7,730.00	5,450.00	5,450.00	99.34	94.16	3.73	-4,237.02	4,354.50	2,921.91	2,789.21	132.71	22.018		
13,500.00	7,730.00	5,450.00	5,450.00	99.74	94.16	3.73	-4,237.02	4,354.50	2,859.18	2,729.07	130.11	21.975		
13,600.00	7,730.00	5,450.00	5,450.00	100.17	94.16	3.73	-4,237.02	4,354.50	2,798.62	2,671.21	127.41	21.966		
13,700.00	7,730.00	5,450.00	5,450.00	100.65	94.16	3.73	-4,237.02	4,354.50	2,740.37	2,615.76	124.61	21.992		
13,800.00	7,730.00	5,450.00	5,450.00	101.16	94.16	3.73	-4,237.02	4,354.50	2,684.58	2,562.87	121.72	22.056		
13,900.00	7,730.00	5,450.00	5,450.00	101.71	94.16	3.73	-4,237.02	4,354.50	2,631.42	2,512.67	118.75	22.160		
14,000.00	7,730.00	5,450.00	5,450.00	102.30	94.16	3.73	-4,237.02	4,354.50	2,581.03	2,465.32	115.71	22.306		
14,100.00	7,730.00	5,450.00	5,450.00	102.93	94.16	3.73	-4,237.02	4,354.50	2,533.59	2,420.96	112.62	22.496		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCL-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,450.00	5,450.00	103.60	94.16	3.73	-4,237.02	4,354.50	2,489.26	2,379.75	109.51	22.731		
14,300.00	7,730.00	5,450.00	5,450.00	104.32	94.16	3.73	-4,237.02	4,354.50	2,448.22	2,341.81	106.40	23.009		
14,400.00	7,730.00	5,450.00	5,450.00	105.07	94.16	3.73	-4,237.02	4,354.50	2,410.63	2,307.30	103.33	23.329		
14,500.00	7,730.00	5,450.00	5,450.00	105.86	94.16	3.73	-4,237.02	4,354.50	2,376.65	2,276.32	100.34	23.686		
14,600.00	7,730.00	5,450.00	5,450.00	106.70	94.16	3.73	-4,237.02	4,354.50	2,346.45	2,248.98	97.47	24.073		
14,700.00	7,730.00	5,450.00	5,450.00	107.57	94.16	3.73	-4,237.02	4,354.50	2,320.17	2,225.38	94.79	24.476		
14,800.00	7,730.00	5,450.00	5,450.00	108.48	94.16	3.73	-4,237.02	4,354.50	2,297.94	2,205.56	92.39	24.872		
14,900.00	7,730.00	5,450.00	5,450.00	109.43	94.16	3.73	-4,237.02	4,354.50	2,279.89	2,189.53	90.36	25.230		
15,000.00	7,730.00	5,450.00	5,450.00	110.42	94.16	3.73	-4,237.02	4,354.50	2,266.11	2,177.26	88.86	25.503		
15,100.00	7,730.00	5,450.00	5,450.00	111.43	94.16	3.73	-4,237.02	4,354.50	2,256.68	2,168.64	88.05	25.630		
15,200.00	7,730.00	5,450.00	5,450.00	112.49	94.16	3.73	-4,237.02	4,354.50	2,251.66	2,163.54	88.12	25.552		
15,263.22	7,730.00	5,450.00	5,450.00	113.17	94.16	3.73	-4,237.02	4,354.50	2,250.77	2,162.09	88.69	25.379	CC	
15,300.00	7,730.00	5,450.00	5,450.00	113.57	94.16	3.73	-4,237.02	4,354.50	2,251.07	2,161.87	89.21	25.234	ES	
15,400.00	7,730.00	5,450.00	5,450.00	114.68	94.16	3.73	-4,237.02	4,354.50	2,254.92	2,163.62	91.31	24.696		
15,500.00	7,730.00	5,450.00	5,450.00	115.82	94.16	3.73	-4,237.02	4,354.50	2,263.19	2,168.91	94.28	24.006		
15,600.00	7,730.00	5,450.00	5,450.00	116.99	94.16	3.73	-4,237.02	4,354.50	2,275.83	2,177.92	97.90	23.245		
15,700.00	7,730.00	5,450.00	5,450.00	118.19	94.16	3.73	-4,237.02	4,354.50	2,292.76	2,190.79	101.97	22.484		
15,800.00	7,730.00	5,450.00	5,450.00	119.41	94.16	3.73	-4,237.02	4,354.50	2,313.89	2,207.59	106.30	21.767		
15,900.00	7,730.00	5,450.00	5,450.00	120.65	94.16	3.73	-4,237.02	4,354.50	2,339.12	2,228.35	110.76	21.118		
16,000.00	7,730.00	5,450.00	5,450.00	121.91	94.16	3.73	-4,237.02	4,354.50	2,368.29	2,253.05	115.25	20.549		
16,100.00	7,730.00	5,450.00	5,450.00	123.20	94.16	3.73	-4,237.02	4,354.50	2,401.29	2,281.59	119.69	20.062		
16,200.00	7,730.00	5,450.00	5,450.00	124.50	94.16	3.73	-4,237.02	4,354.50	2,437.94	2,313.90	124.04	19.655		
16,300.00	7,730.00	5,450.00	5,450.00	125.82	94.16	3.73	-4,237.02	4,354.50	2,478.08	2,349.83	128.25	19.323		
16,400.00	7,730.00	5,450.00	5,450.00	127.16	94.16	3.73	-4,237.02	4,354.50	2,521.56	2,389.26	132.30	19.060		
16,500.00	7,730.00	5,450.00	5,450.00	128.52	94.16	3.73	-4,237.02	4,354.50	2,568.19	2,432.03	136.16	18.861		
16,600.00	7,730.00	5,450.00	5,450.00	129.89	94.16	3.73	-4,237.02	4,354.50	2,617.81	2,477.97	139.84	18.720		
16,700.00	7,730.00	5,450.00	5,450.00	131.27	94.16	3.73	-4,237.02	4,354.50	2,670.26	2,526.94	143.32	18.631		
16,800.00	7,730.00	5,450.00	5,450.00	132.67	94.16	3.73	-4,237.02	4,354.50	2,725.37	2,578.76	146.61	18.589	SF	
16,900.00	7,730.00	5,450.00	5,450.00	134.09	94.16	3.73	-4,237.02	4,354.50	2,782.99	2,633.29	149.70	18.590		
17,000.00	7,730.00	5,450.00	5,450.00	135.51	94.16	3.73	-4,237.02	4,354.50	2,842.95	2,690.35	152.60	18.630		
17,100.00	7,730.00	5,450.00	5,450.00	136.95	94.16	3.73	-4,237.02	4,354.50	2,905.12	2,749.80	155.32	18.704		
17,200.00	7,730.00	5,450.00	5,450.00	138.40	94.16	3.73	-4,237.02	4,354.50	2,969.36	2,811.50	157.86	18.810		
17,300.00	7,730.00	5,450.00	5,450.00	139.85	94.16	3.73	-4,237.02	4,354.50	3,035.53	2,875.29	160.24	18.944		
17,400.00	7,730.00	5,450.00	5,450.00	141.32	94.16	3.73	-4,237.02	4,354.50	3,103.51	2,941.06	162.46	19.104		
17,500.00	7,730.00	5,450.00	5,450.00	142.80	94.16	3.73	-4,237.02	4,354.50	3,173.19	3,008.67	164.52	19.287		
17,600.00	7,730.00	5,450.00	5,450.00	144.28	94.16	3.73	-4,237.02	4,354.50	3,244.46	3,078.01	166.45	19.492		
17,700.00	7,730.00	5,450.00	5,450.00	145.78	94.16	3.73	-4,237.02	4,354.50	3,317.21	3,148.96	168.25	19.716		
17,800.00	7,730.00	5,450.00	5,450.00	147.28	94.16	3.73	-4,237.02	4,354.50	3,391.34	3,221.42	169.92	19.958		
17,900.00	7,730.00	5,450.00	5,450.00	148.79	94.16	3.73	-4,237.02	4,354.50	3,466.78	3,295.30	171.49	20.216		
18,000.00	7,730.00	5,450.00	5,450.00	150.31	94.16	3.73	-4,237.02	4,354.50	3,543.43	3,370.49	172.94	20.489		
18,100.00	7,730.00	5,450.00	5,450.00	151.83	94.16	3.73	-4,237.02	4,354.50	3,621.23	3,446.93	174.30	20.776		
18,200.00	7,730.00	5,450.00	5,450.00	153.37	94.16	3.73	-4,237.02	4,354.50	3,700.09	3,524.52	175.56	21.075		
18,300.00	7,730.00	5,450.00	5,450.00	154.90	94.16	3.73	-4,237.02	4,354.50	3,779.95	3,603.20	176.75	21.386		
18,400.00	7,730.00	5,450.00	5,450.00	156.45	94.16	3.73	-4,237.02	4,354.50	3,860.75	3,682.90	177.85	21.708		
18,500.00	7,730.00	5,450.00	5,450.00	158.00	94.16	3.73	-4,237.02	4,354.50	3,942.42	3,763.54	178.88	22.039		
18,600.00	7,730.00	5,450.00	5,450.00	159.55	94.16	3.73	-4,237.02	4,354.50	4,024.93	3,845.09	179.84	22.380		
18,700.00	7,730.00	5,450.00	5,450.00	161.11	94.16	3.73	-4,237.02	4,354.50	4,108.21	3,927.47	180.74	22.729		
18,800.00	7,730.00	5,450.00	5,450.00	162.68	94.16	3.73	-4,237.02	4,354.50	4,192.23	4,010.64	181.59	23.086		
18,900.00	7,730.00	5,450.00	5,450.00	164.25	94.16	3.73	-4,237.02	4,354.50	4,276.93	4,094.55	182.38	23.451		
19,000.00	7,730.00	5,450.00	5,450.00	165.83	94.16	3.73	-4,237.02	4,354.50	4,362.28	4,179.16	183.12	23.822		
19,100.00	7,730.00	5,450.00	5,450.00	167.41	94.16	3.73	-4,237.02	4,354.50	4,448.24	4,264.43	183.82	24.199		
19,200.00	7,730.00	5,450.00	5,450.00	168.99	94.16	3.73	-4,237.02	4,354.50	4,534.78	4,350.31	184.47	24.583		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 3 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,450.00	5,450.00	170.58	94.16	3.73	-4,237.02	4,354.50	4,621.86	4,436.77	185.08	24.972	
19,400.00	7,730.00	5,450.00	5,450.00	172.17	94.16	3.73	-4,237.02	4,354.50	4,709.45	4,523.79	185.66	25.366	
19,430.54	7,730.00	5,450.00	5,450.00	172.66	94.16	3.73	-4,237.02	4,354.50	4,736.29	4,550.47	185.83	25.488	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	141.93	-5,559.39	4,354.74	7,061.98					
100.00	100.00	67.00	67.00	0.13	0.53	141.93	-5,559.39	4,354.74	7,061.90	7,061.24	0.66	N/A		
200.00	200.00	167.00	167.00	0.49	1.95	141.93	-5,559.39	4,354.74	7,061.90	7,059.46	2.45	2,885.156		
300.00	300.00	267.00	267.00	0.85	3.70	141.93	-5,559.39	4,354.74	7,061.90	7,057.35	4.55	1,551.566		
400.00	400.00	367.00	367.00	1.21	5.45	141.93	-5,559.39	4,354.74	7,061.90	7,055.25	6.66	1,061.100		
500.00	500.00	467.00	467.00	1.57	7.19	141.93	-5,559.39	4,354.74	7,061.90	7,053.15	8.76	806.239		
600.00	599.98	566.98	566.98	1.92	8.94	76.60	-5,559.39	4,354.74	7,061.50	7,050.64	10.86	650.353		
700.00	699.84	666.84	666.84	2.28	10.68	76.66	-5,559.39	4,354.74	7,060.29	7,047.33	12.95	545.008		
800.00	799.45	766.45	766.45	2.64	12.42	76.77	-5,559.39	4,354.74	7,058.28	7,043.22	15.06	468.829		
900.00	898.70	865.70	865.70	3.02	14.15	76.92	-5,559.39	4,354.74	7,055.48	7,038.32	17.16	411.100		
1,000.00	997.47	964.47	964.47	3.41	15.87	77.11	-5,559.39	4,354.74	7,051.93	7,032.65	19.28	365.767		
1,100.00	1,095.62	1,062.62	1,062.62	3.84	17.59	77.35	-5,559.39	4,354.74	7,047.64	7,026.22	21.41	329.159		
1,200.00	1,193.06	1,160.06	1,160.06	4.29	19.29	77.62	-5,559.39	4,354.74	7,042.64	7,019.08	23.56	298.923		
1,300.00	1,289.64	1,256.64	1,256.64	4.78	20.97	77.93	-5,559.39	4,354.74	7,036.97	7,011.24	25.73	273.487		
1,400.00	1,385.27	1,352.27	1,352.27	5.32	22.64	78.27	-5,559.39	4,354.74	7,030.68	7,002.75	27.93	251.760		
1,500.00	1,479.82	1,446.82	1,446.82	5.90	24.29	78.66	-5,559.39	4,354.74	7,023.81	6,993.66	30.15	232.963		
1,600.00	1,573.17	1,540.17	1,540.17	6.53	25.92	79.07	-5,559.39	4,354.74	7,016.41	6,984.01	32.40	216.523		
1,700.00	1,665.21	1,632.21	1,632.21	7.23	27.53	79.51	-5,559.39	4,354.74	7,008.55	6,973.86	34.69	202.014		
1,800.00	1,755.84	1,722.84	1,722.84	7.98	29.11	79.99	-5,559.39	4,354.74	7,000.28	6,963.27	37.02	189.108		
1,900.00	1,844.94	1,811.94	1,811.94	8.80	30.66	80.48	-5,559.39	4,354.74	6,991.67	6,952.30	39.38	177.552		
2,000.00	1,932.39	1,900.61	1,899.39	9.68	32.21	81.00	-5,559.39	4,354.74	6,982.79	6,941.00	41.80	167.059		
2,100.00	2,018.11	1,985.11	1,985.11	10.63	33.69	81.54	-5,559.39	4,354.74	6,973.72	6,929.50	44.22	157.722		
2,200.00	2,101.97	2,068.97	2,068.97	11.65	35.15	82.10	-5,559.39	4,354.74	6,964.52	6,917.83	46.69	149.158		
2,300.00	2,183.88	2,150.88	2,150.88	12.74	36.58	82.67	-5,559.39	4,354.74	6,955.28	6,906.08	49.21	141.344		
2,400.00	2,263.74	2,230.74	2,230.74	13.90	37.97	83.25	-5,559.39	4,354.74	6,946.09	6,894.33	51.76	134.191		
2,431.61	2,288.54	2,255.54	2,255.54	14.29	38.41	83.43	-5,559.39	4,354.74	6,943.20	6,890.63	52.58	132.058		
2,500.00	2,341.97	2,308.97	2,308.97	15.13	39.34	83.71	-5,559.39	4,354.74	6,937.11	6,882.76	54.35	127.640		
2,600.00	2,420.08	2,387.08	2,387.08	16.37	40.70	84.11	-5,559.39	4,354.74	6,928.65	6,871.70	56.96	121.646		
2,700.00	2,498.20	2,465.20	2,465.20	17.63	42.07	84.51	-5,559.39	4,354.74	6,920.76	6,861.17	59.58	116.157		
2,800.00	2,576.32	2,543.32	2,543.32	18.89	43.43	84.91	-5,559.39	4,354.74	6,913.41	6,851.19	62.22	111.118		
2,900.00	2,654.43	2,621.43	2,621.43	20.17	44.79	85.32	-5,559.39	4,354.74	6,906.62	6,841.76	64.86	106.480		
3,000.00	2,732.55	2,700.45	2,699.55	21.45	46.17	85.72	-5,559.39	4,354.74	6,900.40	6,832.86	67.53	102.178		
3,100.00	2,810.67	2,777.67	2,777.67	22.74	47.52	86.13	-5,559.39	4,354.74	6,894.73	6,824.55	70.18	98.245		
3,200.00	2,888.78	2,855.78	2,855.78	24.03	48.88	86.53	-5,559.39	4,354.74	6,889.62	6,816.77	72.85	94.578		
3,300.00	2,966.90	2,933.90	2,933.90	25.33	50.25	86.94	-5,559.39	4,354.74	6,885.07	6,809.55	75.52	91.173		
3,400.00	3,045.02	3,012.02	3,012.02	26.63	51.61	87.34	-5,559.39	4,354.74	6,881.09	6,802.90	78.19	88.003		
3,500.00	3,123.13	3,109.87	3,090.13	27.94	53.32	87.75	-5,559.39	4,354.74	6,877.67	6,796.46	81.21	84.686		
3,600.00	3,201.25	3,168.25	3,168.25	29.24	54.34	88.16	-5,559.39	4,354.74	6,874.82	6,791.27	83.55	82.284		
3,700.00	3,279.37	3,246.37	3,246.37	30.55	55.70	88.56	-5,559.39	4,354.74	6,872.53	6,786.30	86.23	79.699		
3,800.00	3,357.49	3,324.49	3,324.49	31.86	57.06	88.97	-5,559.39	4,354.74	6,870.81	6,781.90	88.91	77.276		
3,900.00	3,435.60	3,402.60	3,402.60	33.18	58.43	89.38	-5,559.39	4,354.74	6,869.66	6,778.06	91.60	75.000		
4,000.00	3,513.72	3,480.72	3,480.72	34.49	59.79	89.78	-5,559.39	4,354.74	6,869.07	6,774.79	94.28	72.860		
4,053.29	3,555.35	3,522.35	3,522.35	35.19	60.52	90.00	-5,559.39	4,354.74	6,868.99	6,773.28	95.71	71.771		
4,100.00	3,591.84	3,558.84	3,558.84	35.81	61.15	90.19	-5,559.39	4,354.74	6,869.05	6,772.09	96.96	70.845		
4,200.00	3,669.95	3,636.95	3,636.95	37.12	62.52	90.60	-5,559.39	4,354.74	6,869.60	6,769.96	99.64	68.944		
4,300.00	3,748.07	3,715.07	3,715.07	38.44	63.88	91.00	-5,559.39	4,354.74	6,870.72	6,768.40	102.32	67.150		
4,400.00	3,826.19	3,806.81	3,793.19	39.76	65.48	91.41	-5,559.39	4,354.74	6,872.40	6,767.17	105.23	65.306		
4,500.00	3,904.30	3,871.30	3,871.30	41.08	66.61	91.82	-5,559.39	4,354.74	6,874.65	6,766.98	107.67	63.849		
4,600.00	3,982.42	3,949.42	3,949.42	42.40	67.97	92.22	-5,559.39	4,354.74	6,877.46	6,767.12	110.34	62.328		
4,700.00	4,060.54	4,027.54	4,027.54	43.72	69.33	92.63	-5,559.39	4,354.74	6,880.85	6,767.83	113.01	60.886		
4,800.00	4,138.66	4,105.66	4,105.66	45.05	70.70	93.03	-5,559.39	4,354.74	6,884.79	6,769.11	115.68	59.517		
4,900.00	4,216.77	4,183.77	4,183.77	46.37	72.06	93.44	-5,559.39	4,354.74	6,889.30	6,770.96	118.34	58.216		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,294.89	4,261.89	4,261.89	47.69	73.42	93.85	-5,559.39	4,354.74	6,894.37	6,773.37	121.00	56.979		
5,100.00	4,373.01	4,340.01	4,340.01	49.02	74.79	94.25	-5,559.39	4,354.74	6,900.00	6,776.35	123.65	55.802		
5,200.00	4,451.12	4,418.12	4,418.12	50.34	76.15	94.65	-5,559.39	4,354.74	6,906.20	6,779.90	126.30	54.680		
5,300.00	4,529.24	4,503.76	4,496.24	51.67	77.65	95.06	-5,559.39	4,354.74	6,912.95	6,783.87	129.08	53.557		
5,400.00	4,607.36	4,574.36	4,574.36	52.99	78.88	95.46	-5,559.39	4,354.74	6,920.25	6,788.67	131.58	52.592		
5,500.00	4,685.47	4,652.47	4,652.47	54.32	80.24	95.86	-5,559.39	4,354.74	6,928.12	6,793.90	134.22	51.618		
5,600.00	4,763.59	4,730.59	4,730.59	55.64	81.60	96.27	-5,559.39	4,354.74	6,936.53	6,799.69	136.85	50.689		
5,700.00	4,841.71	4,808.71	4,808.71	56.97	82.97	96.67	-5,559.39	4,354.74	6,945.50	6,806.03	139.47	49.800		
5,800.00	4,919.83	4,886.83	4,886.83	58.30	84.33	97.07	-5,559.39	4,354.74	6,955.01	6,812.93	142.08	48.950		
5,900.00	4,997.94	4,964.94	4,964.94	59.62	85.69	97.47	-5,559.39	4,354.74	6,965.08	6,820.38	144.69	48.137		
6,000.00	5,076.06	5,043.06	5,043.06	60.95	87.06	97.87	-5,559.39	4,354.74	6,975.68	6,828.39	147.30	47.359		
6,100.00	5,154.18	5,121.18	5,121.18	62.28	88.42	98.27	-5,559.39	4,354.74	6,986.83	6,836.94	149.89	46.613		
6,200.00	5,232.29	5,200.71	5,199.29	63.61	89.81	98.67	-5,559.39	4,354.74	6,998.52	6,846.01	152.50	45.891		
6,300.00	5,310.41	5,277.41	5,277.41	64.93	91.15	99.06	-5,559.39	4,354.74	7,010.74	6,855.68	155.06	45.213		
6,400.00	5,388.53	5,355.53	5,355.53	66.26	92.51	99.46	-5,559.39	4,354.74	7,023.50	6,865.86	157.63	44.556		
6,500.00	5,466.64	5,433.64	5,433.64	67.59	93.88	99.85	-5,559.39	4,354.74	7,036.79	6,876.59	160.20	43.925		
6,600.00	5,544.76	5,511.76	5,511.76	68.92	95.25	100.25	-5,559.39	4,354.74	7,050.87	6,889.21	162.85	43.300		
6,700.00	5,622.88	5,589.88	5,589.88	70.25	96.62	100.64	-5,559.39	4,354.74	7,066.33	6,903.53	165.50	42.680		
6,800.00	5,701.00	5,668.00	5,668.00	71.58	97.99	101.03	-5,559.39	4,354.74	7,083.16	6,919.25	168.25	42.065		
6,900.00	5,779.11	5,746.11	5,746.11	72.91	99.36	101.42	-5,559.39	4,354.74	7,101.36	6,936.36	171.00	41.450		
7,000.00	5,857.23	5,824.23	5,824.23	74.23	100.73	101.81	-5,559.39	4,354.74	7,120.92	6,954.87	173.75	40.835		
7,100.00	5,935.35	5,902.35	5,902.35	75.56	102.10	102.20	-5,559.39	4,354.74	7,141.83	6,974.75	176.50	40.220		
7,200.00	6,013.46	5,980.46	5,980.46	76.89	103.47	102.59	-5,559.39	4,354.74	7,164.07	6,996.00	179.25	39.605		
7,300.00	6,091.58	6,058.58	6,058.58	78.22	104.84	102.98	-5,559.39	4,354.74	7,187.63	7,018.60	182.00	38.990		
7,400.00	6,169.70	6,136.70	6,136.70	79.55	106.21	103.37	-5,559.39	4,354.74	7,212.50	7,042.53	184.75	38.375		
7,500.00	6,247.81	6,214.81	6,214.81	80.88	107.58	103.76	-5,559.39	4,354.74	7,238.67	7,067.80	187.50	37.760		
7,600.00	6,325.93	6,292.93	6,292.93	82.21	108.95	104.15	-5,559.39	4,354.74	7,266.12	7,094.37	190.25	37.145		
7,700.00	6,404.05	6,371.05	6,371.05	83.54	110.32	104.54	-5,559.39	4,354.74	7,294.84	7,122.24	193.00	36.530		
7,800.00	6,482.17	6,449.17	6,449.17	84.87	111.69	104.93	-5,559.39	4,354.74	7,324.82	7,151.40	195.75	35.915		
7,900.00	6,560.28	6,527.28	6,527.28	86.20	113.06	105.32	-5,559.39	4,354.74	7,356.02	7,181.82	198.50	35.300		
8,000.00	6,638.40	6,605.40	6,605.40	87.53	114.43	105.71	-5,559.39	4,354.74	7,388.46	7,213.49	201.25	34.685		
8,100.00	6,716.52	6,683.52	6,683.52	88.86	115.80	106.10	-5,559.39	4,354.74	7,422.09	7,246.39	204.00	34.070		
8,200.00	6,794.63	6,761.63	6,761.63	90.20	117.17	106.49	-5,559.39	4,354.74	7,456.92	7,280.51	206.75	33.455		
8,300.00	6,872.75	6,839.75	6,839.75	91.53	118.54	106.88	-5,559.39	4,354.74	7,492.92	7,315.83	209.50	32.840		
8,400.00	6,950.87	6,917.87	6,917.87	92.86	119.91	107.27	-5,559.39	4,354.74	7,530.07	7,352.34	212.25	32.225		
8,500.00	7,028.98	7,000.00	7,000.00	94.19	121.28	107.66	-5,559.39	4,354.74	7,568.37	7,390.01	215.00	31.610		
8,600.00	7,107.10	7,078.12	7,078.12	95.52	122.65	108.05	-5,559.39	4,354.74	7,607.78	7,428.82	217.75	30.995		
8,647.91	7,144.53	7,115.55	7,115.55	96.16	123.99	108.44	-5,559.39	4,354.74	7,627.06	7,447.82	219.50	30.380		
8,650.00	7,146.16	7,117.18	7,117.18	96.18	124.33	108.46	-5,559.39	4,354.74	7,627.90	7,448.66	219.50	30.380		
8,700.00	7,185.66	7,156.68	7,156.68	96.84	125.67	108.85	-5,559.39	4,354.74	7,646.15	7,466.62	221.25	29.765		
8,750.00	7,225.78	7,196.80	7,196.80	97.47	127.00	109.24	-5,559.39	4,354.74	7,660.62	7,480.81	223.00	29.150		
8,800.00	7,266.21	7,237.23	7,237.23	98.08	128.34	109.63	-5,559.39	4,354.74	7,671.24	7,491.16	224.75	28.535		
8,850.00	7,306.63	7,277.65	7,277.65	98.64	129.68	110.02	-5,559.39	4,354.74	7,677.93	7,497.61	226.50	27.920		
8,900.00	7,346.75	7,317.77	7,317.77	99.17	131.02	110.41	-5,559.39	4,354.74	7,680.65	7,500.10	228.25	27.305		
8,950.00	7,386.25	7,357.27	7,357.27	99.64	132.36	110.80	-5,559.39	4,354.74	7,679.40	7,498.65	228.25	27.305		
9,000.00	7,424.84	7,395.86	7,395.86	100.06	133.70	111.19	-5,559.39	4,354.74	7,674.17	7,493.25	228.25	27.305		
9,050.00	7,462.22	7,433.24	7,433.24	100.42	135.04	111.58	-5,559.39	4,354.74	7,665.00	7,483.93	228.25	27.305		
9,100.00	7,498.11	7,469.13	7,469.13	100.74	136.38	111.97	-5,559.39	4,354.74	7,651.94	7,470.77	228.25	27.305		
9,150.00	7,532.24	7,503.26	7,503.26	100.99	137.72	112.36	-5,559.39	4,354.74	7,635.08	7,453.83	228.25	27.305		
9,200.00	7,564.34	7,535.36	7,535.36	101.19	139.06	112.75	-5,559.39	4,354.74	7,614.51	7,433.22	228.25	27.305		
9,250.00	7,594.17	7,565.19	7,565.19	101.34	140.40	113.14	-5,559.39	4,354.74	7,590.37	7,409.07	228.25	27.305		
9,300.00	7,621.50	7,592.52	7,592.52	101.45	141.74	113.53	-5,559.39	4,354.74	7,562.80	7,381.52	228.25	27.305		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,450.00	5,450.00	101.50	94.16	29.40	-5,559.39	4,354.74	7,531.98	7,350.75	181.23	41.561		
9,400.00	7,667.87	5,450.00	5,450.00	101.51	94.16	26.82	-5,559.39	4,354.74	7,498.10	7,316.94	181.16	41.390		
9,450.00	7,686.55	5,450.00	5,450.00	101.48	94.16	24.26	-5,559.39	4,354.74	7,461.38	7,280.32	181.07	41.208		
9,500.00	7,702.04	5,450.00	5,450.00	101.42	94.16	21.57	-5,559.39	4,354.74	7,422.07	7,241.11	180.96	41.015		
9,550.00	7,714.20	5,450.00	5,450.00	101.33	94.16	18.59	-5,559.39	4,354.74	7,380.42	7,199.58	180.84	40.812		
9,600.00	7,722.96	5,450.00	5,450.00	101.20	94.16	14.99	-5,559.39	4,354.74	7,336.71	7,156.00	180.71	40.599		
9,650.00	7,728.24	5,450.00	5,450.00	101.06	94.16	10.30	-5,559.39	4,354.74	7,291.24	7,110.66	180.58	40.376		
9,699.97	7,730.00	5,450.00	5,450.00	100.90	94.16	3.61	-5,559.39	4,354.74	7,244.36	7,063.90	180.45	40.145		
9,800.00	7,730.00	5,450.00	5,450.00	100.56	94.16	3.61	-5,559.39	4,354.74	7,149.35	6,969.15	180.20	39.675		
9,900.00	7,730.00	5,450.00	5,450.00	100.24	94.16	3.61	-5,559.39	4,354.74	7,054.51	6,874.58	179.93	39.207		
10,000.00	7,730.00	5,450.00	5,450.00	99.93	94.16	3.61	-5,559.39	4,354.74	6,959.81	6,780.15	179.66	38.740		
10,100.00	7,730.00	5,450.00	5,450.00	99.64	94.16	3.61	-5,559.39	4,354.74	6,865.26	6,685.89	179.37	38.274		
10,200.00	7,730.00	5,450.00	5,450.00	99.36	94.16	3.61	-5,559.39	4,354.74	6,770.87	6,591.80	179.08	37.810		
10,300.00	7,730.00	5,450.00	5,450.00	99.09	94.16	3.61	-5,559.39	4,354.74	6,676.65	6,497.88	178.77	37.347		
10,400.00	7,730.00	5,450.00	5,450.00	98.84	94.16	3.61	-5,559.39	4,354.74	6,582.59	6,404.13	178.46	36.886		
10,500.00	7,730.00	5,450.00	5,450.00	98.61	94.16	3.61	-5,559.39	4,354.74	6,488.71	6,310.58	178.13	36.427		
10,600.00	7,730.00	5,450.00	5,450.00	98.39	94.16	3.61	-5,559.39	4,354.74	6,395.02	6,217.23	177.79	35.969		
10,700.00	7,730.00	5,450.00	5,450.00	98.18	94.16	3.61	-5,559.39	4,354.74	6,301.52	6,124.08	177.44	35.514		
10,800.00	7,730.00	5,450.00	5,450.00	97.99	94.16	3.61	-5,559.39	4,354.74	6,208.22	6,031.15	177.08	35.060		
10,900.00	7,730.00	5,450.00	5,450.00	97.81	94.16	3.61	-5,559.39	4,354.74	6,115.14	5,938.44	176.70	34.608		
11,000.00	7,730.00	5,450.00	5,450.00	97.64	94.16	3.61	-5,559.39	4,354.74	6,022.28	5,845.97	176.30	34.159		
11,100.00	7,730.00	5,450.00	5,450.00	97.50	94.16	3.61	-5,559.39	4,354.74	5,929.65	5,753.75	175.89	33.711		
11,200.00	7,730.00	5,450.00	5,450.00	97.36	94.16	3.61	-5,559.39	4,354.74	5,837.26	5,661.79	175.47	33.266		
11,300.00	7,730.00	5,450.00	5,450.00	97.24	94.16	3.61	-5,559.39	4,354.74	5,745.12	5,570.10	175.03	32.824		
11,400.00	7,730.00	5,450.00	5,450.00	97.14	94.16	3.61	-5,559.39	4,354.74	5,653.26	5,478.69	174.57	32.384		
11,500.00	7,730.00	5,450.00	5,450.00	97.06	94.16	3.61	-5,559.39	4,354.74	5,561.67	5,387.59	174.09	31.947		
11,600.00	7,730.00	5,450.00	5,450.00	96.98	94.16	3.61	-5,559.39	4,354.74	5,470.39	5,296.80	173.59	31.513		
11,700.00	7,730.00	5,450.00	5,450.00	96.93	94.16	3.61	-5,559.39	4,354.74	5,379.40	5,206.34	173.07	31.083		
11,800.00	7,730.00	5,450.00	5,450.00	96.90	94.16	3.61	-5,559.39	4,354.74	5,288.75	5,116.23	172.53	30.655		
11,900.00	7,730.00	5,450.00	5,450.00	96.88	94.16	3.61	-5,559.39	4,354.74	5,198.44	5,026.48	171.96	30.231		
12,000.00	7,730.00	5,450.00	5,450.00	96.88	94.16	3.61	-5,559.39	4,354.74	5,108.49	4,937.12	171.37	29.810		
12,100.00	7,730.00	5,450.00	5,450.00	96.90	94.16	3.61	-5,559.39	4,354.74	5,018.92	4,848.17	170.75	29.394		
12,200.00	7,730.00	5,450.00	5,450.00	96.94	94.16	3.61	-5,559.39	4,354.74	4,929.75	4,759.65	170.10	28.982		
12,300.00	7,730.00	5,450.00	5,450.00	97.00	94.16	3.61	-5,559.39	4,354.74	4,841.00	4,671.58	169.42	28.574		
12,400.00	7,730.00	5,450.00	5,450.00	97.08	94.16	3.61	-5,559.39	4,354.74	4,752.70	4,583.99	168.71	28.170		
12,500.00	7,730.00	5,450.00	5,450.00	97.18	94.16	3.61	-5,559.39	4,354.74	4,664.88	4,496.91	167.97	27.772		
12,600.00	7,730.00	5,450.00	5,450.00	97.31	94.16	3.61	-5,559.39	4,354.74	4,577.55	4,410.36	167.19	27.379		
12,700.00	7,730.00	5,450.00	5,450.00	97.46	94.16	3.61	-5,559.39	4,354.74	4,490.75	4,324.38	166.37	26.992		
12,800.00	7,730.00	5,450.00	5,450.00	97.64	94.16	3.61	-5,559.39	4,354.74	4,404.51	4,238.99	165.52	26.610		
12,900.00	7,730.00	5,450.00	5,450.00	97.85	94.16	3.61	-5,559.39	4,354.74	4,318.87	4,154.25	164.62	26.235		
13,000.00	7,730.00	5,450.00	5,450.00	98.09	94.16	3.61	-5,559.39	4,354.74	4,233.85	4,070.17	163.68	25.867		
13,100.00	7,730.00	5,450.00	5,450.00	98.35	94.16	3.61	-5,559.39	4,354.74	4,149.50	3,986.82	162.69	25.506		
13,200.00	7,730.00	5,450.00	5,450.00	98.65	94.16	3.61	-5,559.39	4,354.74	4,065.87	3,904.22	161.65	25.153		
13,300.00	7,730.00	5,450.00	5,450.00	98.98	94.16	3.61	-5,559.39	4,354.74	3,982.98	3,822.43	160.55	24.808		
13,400.00	7,730.00	5,450.00	5,450.00	99.34	94.16	3.61	-5,559.39	4,354.74	3,900.90	3,741.50	159.40	24.472		
13,500.00	7,730.00	5,450.00	5,450.00	99.74	94.16	3.61	-5,559.39	4,354.74	3,819.67	3,661.48	158.19	24.146		
13,600.00	7,730.00	5,450.00	5,450.00	100.17	94.16	3.61	-5,559.39	4,354.74	3,739.36	3,582.44	156.92	23.830		
13,700.00	7,730.00	5,450.00	5,450.00	100.65	94.16	3.61	-5,559.39	4,354.74	3,660.01	3,504.43	155.58	23.525		
13,800.00	7,730.00	5,450.00	5,450.00	101.16	94.16	3.61	-5,559.39	4,354.74	3,581.70	3,427.52	154.18	23.231		
13,900.00	7,730.00	5,450.00	5,450.00	101.71	94.16	3.61	-5,559.39	4,354.74	3,504.49	3,351.79	152.70	22.951		
14,000.00	7,730.00	5,450.00	5,450.00	102.30	94.16	3.61	-5,559.39	4,354.74	3,428.46	3,277.32	151.14	22.684		
14,100.00	7,730.00	5,450.00	5,450.00	102.93	94.16	3.61	-5,559.39	4,354.74	3,353.69	3,204.18	149.51	22.432		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,450.00	5,450.00	103.60	94.16	3.61	-5,559.39	4,354.74	3,280.26	3,132.47	147.79	22.195		
14,300.00	7,730.00	5,450.00	5,450.00	104.32	94.16	3.61	-5,559.39	4,354.74	3,208.27	3,062.28	145.99	21.976		
14,400.00	7,730.00	5,450.00	5,450.00	105.07	94.16	3.61	-5,559.39	4,354.74	3,137.81	2,993.71	144.10	21.775		
14,500.00	7,730.00	5,450.00	5,450.00	105.86	94.16	3.61	-5,559.39	4,354.74	3,069.00	2,926.87	142.12	21.594		
14,600.00	7,730.00	5,450.00	5,450.00	106.70	94.16	3.61	-5,559.39	4,354.74	3,001.94	2,861.88	140.06	21.434		
14,700.00	7,730.00	5,450.00	5,450.00	107.57	94.16	3.61	-5,559.39	4,354.74	2,936.75	2,798.85	137.90	21.296		
14,800.00	7,730.00	5,450.00	5,450.00	108.48	94.16	3.61	-5,559.39	4,354.74	2,873.57	2,737.92	135.65	21.183		
14,900.00	7,730.00	5,450.00	5,450.00	109.43	94.16	3.61	-5,559.39	4,354.74	2,812.52	2,679.20	133.32	21.096		
15,000.00	7,730.00	5,450.00	5,450.00	110.42	94.16	3.61	-5,559.39	4,354.74	2,753.76	2,622.86	130.90	21.037		
15,100.00	7,730.00	5,450.00	5,450.00	111.43	94.16	3.61	-5,559.39	4,354.74	2,697.42	2,569.01	128.40	21.007		
15,200.00	7,730.00	5,450.00	5,450.00	112.49	94.16	3.61	-5,559.39	4,354.74	2,643.66	2,517.82	125.84	21.008		
15,300.00	7,730.00	5,450.00	5,450.00	113.57	94.16	3.61	-5,559.39	4,354.74	2,592.65	2,469.44	123.21	21.042		
15,400.00	7,730.00	5,450.00	5,450.00	114.68	94.16	3.61	-5,559.39	4,354.74	2,544.55	2,424.01	120.54	21.110		
15,500.00	7,730.00	5,450.00	5,450.00	115.82	94.16	3.61	-5,559.39	4,354.74	2,499.52	2,381.69	117.83	21.213		
15,600.00	7,730.00	5,450.00	5,450.00	116.99	94.16	3.61	-5,559.39	4,354.74	2,457.74	2,342.62	115.12	21.350		
15,700.00	7,730.00	5,450.00	5,450.00	118.19	94.16	3.61	-5,559.39	4,354.74	2,419.37	2,306.96	112.41	21.522		
15,800.00	7,730.00	5,450.00	5,450.00	119.41	94.16	3.61	-5,559.39	4,354.74	2,384.59	2,274.83	109.76	21.726		
15,900.00	7,730.00	5,450.00	5,450.00	120.65	94.16	3.61	-5,559.39	4,354.74	2,353.54	2,246.35	107.19	21.957		
16,000.00	7,730.00	5,450.00	5,450.00	121.91	94.16	3.61	-5,559.39	4,354.74	2,326.37	2,221.62	104.76	22.207		
16,100.00	7,730.00	5,450.00	5,450.00	123.20	94.16	3.61	-5,559.39	4,354.74	2,303.24	2,200.70	102.54	22.463		
16,200.00	7,730.00	5,450.00	5,450.00	124.50	94.16	3.61	-5,559.39	4,354.74	2,284.25	2,183.63	100.62	22.702		
16,300.00	7,730.00	5,450.00	5,450.00	125.82	94.16	3.61	-5,559.39	4,354.74	2,269.51	2,170.38	99.13	22.894		
16,400.00	7,730.00	5,450.00	5,450.00	127.16	94.16	3.61	-5,559.39	4,354.74	2,259.10	2,160.86	98.25	22.994		
16,500.00	7,730.00	5,450.00	5,450.00	128.52	94.16	3.61	-5,559.39	4,354.74	2,253.09	2,154.94	98.15	22.955		
16,585.58	7,730.00	5,450.00	5,450.00	129.69	94.16	3.61	-5,559.39	4,354.74	2,251.47	2,152.65	98.82	22.784 CC		
16,600.00	7,730.00	5,450.00	5,450.00	129.89	94.16	3.61	-5,559.39	4,354.74	2,251.51	2,152.51	99.00	22.742 ES		
16,700.00	7,730.00	5,450.00	5,450.00	131.27	94.16	3.61	-5,559.39	4,354.74	2,254.37	2,153.55	100.83	22.358		
16,800.00	7,730.00	5,450.00	5,450.00	132.67	94.16	3.61	-5,559.39	4,354.74	2,261.66	2,158.13	103.53	21.846		
16,900.00	7,730.00	5,450.00	5,450.00	134.09	94.16	3.61	-5,559.39	4,354.74	2,273.32	2,166.43	106.89	21.268		
17,000.00	7,730.00	5,450.00	5,450.00	135.51	94.16	3.61	-5,559.39	4,354.74	2,289.29	2,178.59	110.70	20.680		
17,100.00	7,730.00	5,450.00	5,450.00	136.95	94.16	3.61	-5,559.39	4,354.74	2,309.49	2,194.70	114.78	20.120		
17,200.00	7,730.00	5,450.00	5,450.00	138.40	94.16	3.61	-5,559.39	4,354.74	2,333.80	2,214.80	119.00	19.612		
17,300.00	7,730.00	5,450.00	5,450.00	139.85	94.16	3.61	-5,559.39	4,354.74	2,362.10	2,238.86	123.24	19.167		
17,400.00	7,730.00	5,450.00	5,450.00	141.32	94.16	3.61	-5,559.39	4,354.74	2,394.24	2,266.80	127.44	18.788		
17,500.00	7,730.00	5,450.00	5,450.00	142.80	94.16	3.61	-5,559.39	4,354.74	2,430.08	2,298.54	131.54	18.474		
17,600.00	7,730.00	5,450.00	5,450.00	144.28	94.16	3.61	-5,559.39	4,354.74	2,469.45	2,333.94	135.51	18.224		
17,700.00	7,730.00	5,450.00	5,450.00	145.78	94.16	3.61	-5,559.39	4,354.74	2,512.18	2,372.86	139.32	18.032		
17,800.00	7,730.00	5,450.00	5,450.00	147.28	94.16	3.61	-5,559.39	4,354.74	2,558.11	2,415.16	142.95	17.895		
17,900.00	7,730.00	5,450.00	5,450.00	148.79	94.16	3.61	-5,559.39	4,354.74	2,607.07	2,460.67	146.40	17.808		
18,000.00	7,730.00	5,450.00	5,450.00	150.31	94.16	3.61	-5,559.39	4,354.74	2,658.89	2,509.23	149.66	17.766		
18,100.00	7,730.00	5,450.00	5,450.00	151.83	94.16	3.61	-5,559.39	4,354.74	2,713.41	2,560.68	152.73	17.766 SF		
18,200.00	7,730.00	5,450.00	5,450.00	153.37	94.16	3.61	-5,559.39	4,354.74	2,770.46	2,614.85	155.62	17.803		
18,300.00	7,730.00	5,450.00	5,450.00	154.90	94.16	3.61	-5,559.39	4,354.74	2,829.90	2,671.59	158.32	17.875		
18,400.00	7,730.00	5,450.00	5,450.00	156.45	94.16	3.61	-5,559.39	4,354.74	2,891.58	2,730.74	160.84	17.978		
18,500.00	7,730.00	5,450.00	5,450.00	158.00	94.16	3.61	-5,559.39	4,354.74	2,955.35	2,792.16	163.20	18.109		
18,600.00	7,730.00	5,450.00	5,450.00	159.55	94.16	3.61	-5,559.39	4,354.74	3,021.09	2,855.70	165.39	18.266		
18,700.00	7,730.00	5,450.00	5,450.00	161.11	94.16	3.61	-5,559.39	4,354.74	3,088.67	2,921.23	167.44	18.446		
18,800.00	7,730.00	5,450.00	5,450.00	162.68	94.16	3.61	-5,559.39	4,354.74	3,157.97	2,988.63	169.34	18.648		
18,900.00	7,730.00	5,450.00	5,450.00	164.25	94.16	3.61	-5,559.39	4,354.74	3,228.88	3,057.76	171.12	18.869		
19,000.00	7,730.00	5,450.00	5,450.00	165.83	94.16	3.61	-5,559.39	4,354.74	3,301.29	3,128.53	172.76	19.109		
19,100.00	7,730.00	5,450.00	5,450.00	167.41	94.16	3.61	-5,559.39	4,354.74	3,375.12	3,200.82	174.30	19.364		
19,200.00	7,730.00	5,450.00	5,450.00	168.99	94.16	3.61	-5,559.39	4,354.74	3,450.26	3,274.54	175.72	19.635		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS 4 - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,450.00	5,450.00	170.58	94.16	3.61	-5,559.39	4,354.74	3,526.64	3,349.59	177.05	19.919	
19,400.00	7,730.00	5,450.00	5,450.00	172.17	94.16	3.61	-5,559.39	4,354.74	3,604.17	3,425.89	178.28	20.216	
19,430.54	7,730.00	5,450.00	5,450.00	172.66	94.16	3.61	-5,559.39	4,354.74	3,628.07	3,449.43	178.64	20.309	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	126.75	-4,236.75	5,673.54	7,081.16					
100.00	100.00	39.00	39.00	0.13	0.31	126.75	-4,236.75	5,673.54	7,080.90	7,080.45	0.45	N/A		
200.00	200.00	139.00	139.00	0.49	1.48	126.75	-4,236.75	5,673.54	7,080.90	7,078.92	1.98	3,582.673		
300.00	300.00	239.00	239.00	0.85	3.23	126.75	-4,236.75	5,673.54	7,080.90	7,076.82	4.08	1,735.417		
400.00	400.00	339.00	339.00	1.21	4.97	126.75	-4,236.75	5,673.54	7,080.90	7,074.72	6.18	1,145.030		
500.00	500.00	439.00	439.00	1.57	6.72	126.75	-4,236.75	5,673.54	7,080.90	7,072.61	8.29	854.373		
600.00	599.98	538.98	538.98	1.92	8.46	61.43	-4,236.75	5,673.54	7,080.07	7,069.68	10.39	681.652		
700.00	699.84	638.84	638.84	2.28	10.21	61.51	-4,236.75	5,673.54	7,077.56	7,065.08	12.48	566.981		
800.00	799.45	738.45	738.45	2.64	11.95	61.64	-4,236.75	5,673.54	7,073.40	7,058.82	14.58	485.076		
900.00	898.70	837.70	837.70	3.02	13.68	61.83	-4,236.75	5,673.54	7,067.60	7,050.91	16.69	423.573		
1,000.00	997.47	936.47	936.47	3.41	15.40	62.07	-4,236.75	5,673.54	7,060.17	7,041.37	18.80	375.617		
1,100.00	1,095.62	1,034.62	1,034.62	3.84	17.12	62.37	-4,236.75	5,673.54	7,051.15	7,030.23	20.92	337.109		
1,200.00	1,193.06	1,132.06	1,132.06	4.29	18.82	62.72	-4,236.75	5,673.54	7,040.56	7,017.51	23.05	305.452		
1,300.00	1,289.64	1,228.64	1,228.64	4.78	20.50	63.12	-4,236.75	5,673.54	7,028.45	7,003.25	25.20	278.919		
1,400.00	1,385.27	1,324.27	1,324.27	5.32	22.17	63.57	-4,236.75	5,673.54	7,014.86	6,987.49	27.37	256.324		
1,500.00	1,479.82	1,418.82	1,418.82	5.90	23.82	64.07	-4,236.75	5,673.54	6,999.84	6,970.28	29.56	236.821		
1,600.00	1,573.17	1,512.17	1,512.17	6.53	25.45	64.62	-4,236.75	5,673.54	6,983.45	6,951.67	31.77	219.794		
1,700.00	1,665.21	1,604.21	1,604.21	7.23	27.06	65.22	-4,236.75	5,673.54	6,965.74	6,931.72	34.02	204.783		
1,800.00	1,755.84	1,705.16	1,694.84	7.98	28.82	65.86	-4,236.75	5,673.54	6,946.78	6,910.31	36.47	190.493		
1,900.00	1,844.94	1,783.94	1,783.94	8.80	30.19	66.55	-4,236.75	5,673.54	6,926.64	6,888.05	38.59	179.490		
2,000.00	1,932.39	1,871.39	1,871.39	9.68	31.72	67.28	-4,236.75	5,673.54	6,905.40	6,864.47	40.93	168.723		
2,100.00	2,018.11	1,957.11	1,957.11	10.63	33.22	68.05	-4,236.75	5,673.54	6,883.14	6,839.84	43.30	158.969		
2,200.00	2,101.97	2,040.97	2,040.97	11.65	34.68	68.86	-4,236.75	5,673.54	6,859.94	6,814.23	45.71	150.090		
2,300.00	2,183.88	2,122.88	2,122.88	12.74	36.11	69.70	-4,236.75	5,673.54	6,835.89	6,787.74	48.15	141.975		
2,400.00	2,263.74	2,202.74	2,202.74	13.90	37.50	70.57	-4,236.75	5,673.54	6,811.09	6,760.46	50.63	134.531		
2,431.61	2,288.54	2,227.54	2,227.54	14.29	37.94	70.86	-4,236.75	5,673.54	6,803.11	6,751.69	51.42	132.306		
2,500.00	2,341.97	2,280.97	2,280.97	15.13	38.87	71.13	-4,236.75	5,673.54	6,785.88	6,732.74	53.14	127.696		
2,600.00	2,420.08	2,359.08	2,359.08	16.37	40.23	71.53	-4,236.75	5,673.54	6,761.10	6,705.42	55.68	121.429		
2,700.00	2,498.20	2,437.20	2,437.20	17.63	41.59	71.94	-4,236.75	5,673.54	6,736.80	6,678.56	58.24	115.674		
2,800.00	2,576.32	2,515.32	2,515.32	18.89	42.96	72.35	-4,236.75	5,673.54	6,713.00	6,652.18	60.82	110.380		
2,900.00	2,654.43	2,606.57	2,593.43	20.17	44.55	72.76	-4,236.75	5,673.54	6,689.69	6,626.05	63.64	105.117		
3,000.00	2,732.55	2,671.55	2,671.55	21.45	45.68	73.17	-4,236.75	5,673.54	6,666.89	6,600.87	66.02	100.983		
3,100.00	2,810.67	2,749.67	2,749.67	22.74	47.05	73.58	-4,236.75	5,673.54	6,644.60	6,575.96	68.64	96.802		
3,200.00	2,888.78	2,827.78	2,827.78	24.03	48.41	73.99	-4,236.75	5,673.54	6,622.82	6,551.55	71.27	92.920		
3,300.00	2,966.90	2,905.90	2,905.90	25.33	49.78	74.41	-4,236.75	5,673.54	6,601.56	6,527.64	73.92	89.308		
3,400.00	3,045.02	2,984.02	2,984.02	26.63	51.14	74.83	-4,236.75	5,673.54	6,580.82	6,504.25	76.57	85.942		
3,500.00	3,123.13	3,062.13	3,062.13	27.94	52.50	75.25	-4,236.75	5,673.54	6,560.61	6,481.38	79.24	82.799		
3,600.00	3,201.25	3,140.25	3,140.25	29.24	53.87	75.67	-4,236.75	5,673.54	6,540.94	6,459.03	81.91	79.858		
3,700.00	3,279.37	3,218.37	3,218.37	30.55	55.23	76.09	-4,236.75	5,673.54	6,521.80	6,437.21	84.59	77.102		
3,800.00	3,357.49	3,303.51	3,296.49	31.86	56.71	76.52	-4,236.75	5,673.54	6,503.21	6,415.81	87.40	74.411		
3,900.00	3,435.60	3,374.60	3,374.60	33.18	57.96	76.94	-4,236.75	5,673.54	6,485.16	6,395.19	89.97	72.084		
4,000.00	3,513.72	3,452.72	3,452.72	34.49	59.32	77.37	-4,236.75	5,673.54	6,467.67	6,375.00	92.67	69.795		
4,100.00	3,591.84	3,530.84	3,530.84	35.81	60.68	77.80	-4,236.75	5,673.54	6,450.73	6,355.36	95.37	67.637		
4,200.00	3,669.95	3,608.95	3,608.95	37.12	62.05	78.23	-4,236.75	5,673.54	6,434.35	6,336.27	98.08	65.601		
4,300.00	3,748.07	3,687.07	3,687.07	38.44	63.41	78.66	-4,236.75	5,673.54	6,418.54	6,317.74	100.80	63.677		
4,400.00	3,826.19	3,765.19	3,765.19	39.76	64.77	79.09	-4,236.75	5,673.54	6,403.30	6,299.78	103.52	61.856		
4,500.00	3,904.30	3,843.30	3,843.30	41.08	66.14	79.53	-4,236.75	5,673.54	6,388.64	6,282.39	106.24	60.132		
4,600.00	3,982.42	3,921.42	3,921.42	42.40	67.50	79.96	-4,236.75	5,673.54	6,374.55	6,265.58	108.97	58.497		
4,700.00	4,060.54	4,000.46	3,999.54	43.72	68.88	80.40	-4,236.75	5,673.54	6,361.04	6,249.32	111.72	56.938		
4,800.00	4,138.66	4,077.66	4,077.66	45.05	70.23	80.83	-4,236.75	5,673.54	6,348.12	6,233.68	114.44	55.473		
4,900.00	4,216.77	4,155.77	4,155.77	46.37	71.59	81.27	-4,236.75	5,673.54	6,335.78	6,218.61	117.17	54.072		
5,000.00	4,294.89	4,233.89	4,233.89	47.69	72.95	81.71	-4,236.75	5,673.54	6,324.04	6,204.13	119.91	52.739		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,373.01	4,312.01	4,312.01	49.02	74.32	82.15	-4,236.75	5,673.54	6,312.90	6,190.25	122.65	51.470		
5,200.00	4,451.12	4,409.88	4,390.12	50.34	76.02	82.59	-4,236.75	5,673.54	6,302.35	6,176.61	125.74	50.123		
5,300.00	4,529.24	4,468.24	4,468.24	51.67	77.04	83.04	-4,236.75	5,673.54	6,292.41	6,164.27	128.13	49.108		
5,400.00	4,607.36	4,546.36	4,546.36	52.99	78.41	83.48	-4,236.75	5,673.54	6,283.07	6,152.19	130.88	48.008		
5,500.00	4,685.47	4,624.47	4,624.47	54.32	79.77	83.92	-4,236.75	5,673.54	6,274.33	6,140.72	133.62	46.958		
5,600.00	4,763.59	4,702.59	4,702.59	55.64	81.13	84.37	-4,236.75	5,673.54	6,266.21	6,129.85	136.36	45.954		
5,700.00	4,841.71	4,780.71	4,780.71	56.97	82.50	84.81	-4,236.75	5,673.54	6,258.70	6,119.60	139.10	44.995		
5,800.00	4,919.83	4,858.83	4,858.83	58.30	83.86	85.26	-4,236.75	5,673.54	6,251.80	6,109.96	141.84	44.077		
5,900.00	4,997.94	4,936.94	4,936.94	59.62	85.22	85.71	-4,236.75	5,673.54	6,245.52	6,100.95	144.58	43.199		
6,000.00	5,076.06	5,015.06	5,015.06	60.95	86.59	86.15	-4,236.75	5,673.54	6,239.86	6,092.55	147.31	42.359		
6,100.00	5,154.18	5,106.82	5,093.18	62.28	88.19	86.60	-4,236.75	5,673.54	6,234.82	6,084.54	150.28	41.488		
6,200.00	5,232.29	5,171.29	5,171.29	63.61	89.31	87.05	-4,236.75	5,673.54	6,230.40	6,077.63	152.77	40.782		
6,300.00	5,310.41	5,249.41	5,249.41	64.93	90.68	87.50	-4,236.75	5,673.54	6,226.60	6,071.10	155.50	40.043		
6,400.00	5,388.53	5,327.53	5,327.53	66.26	92.04	87.95	-4,236.75	5,673.54	6,223.43	6,065.21	158.22	39.334		
6,500.00	5,466.64	5,405.64	5,405.64	67.59	93.40	88.40	-4,236.75	5,673.54	6,220.88	6,059.94	160.94	38.654		
6,600.00	5,544.76	5,400.00	5,400.00	68.92	93.31	88.36	-4,236.75	5,673.54	6,219.52	6,057.35	162.17	38.351		
6,634.64	5,571.82	5,400.00	5,400.00	69.38	93.31	88.36	-4,236.75	5,673.54	6,219.43	6,056.80	162.63	38.243		
6,700.00	5,622.88	5,400.00	5,400.00	70.25	93.31	88.36	-4,236.75	5,673.54	6,219.77	6,056.29	163.48	38.047		
6,800.00	5,701.00	5,400.00	5,400.00	71.58	93.31	88.36	-4,236.75	5,673.54	6,221.62	6,056.88	164.75	37.764		
6,900.00	5,779.11	5,400.00	5,400.00	72.91	93.31	88.36	-4,236.75	5,673.54	6,225.09	6,059.10	165.99	37.504		
7,000.00	5,857.23	5,400.00	5,400.00	74.23	93.31	88.36	-4,236.75	5,673.54	6,230.15	6,062.96	167.19	37.264		
7,100.00	5,935.35	5,400.00	5,400.00	75.56	93.31	88.36	-4,236.75	5,673.54	6,236.81	6,068.45	168.36	37.045		
7,200.00	6,013.46	5,400.00	5,400.00	76.89	93.31	88.36	-4,236.75	5,673.54	6,245.07	6,075.58	169.49	36.846		
7,300.00	6,091.58	5,400.00	5,400.00	78.22	93.31	88.36	-4,236.75	5,673.54	6,254.92	6,084.32	170.59	36.666		
7,400.00	6,169.70	5,400.00	5,400.00	79.55	93.31	88.36	-4,236.75	5,673.54	6,266.34	6,094.69	171.65	36.506		
7,500.00	6,247.81	5,400.00	5,400.00	80.88	93.31	88.36	-4,236.75	5,673.54	6,279.34	6,106.66	172.68	36.365		
7,600.00	6,325.93	5,400.00	5,400.00	82.21	93.31	88.36	-4,236.75	5,673.54	6,293.90	6,120.24	173.67	36.242		
7,700.00	6,404.05	5,400.00	5,400.00	83.54	93.31	88.36	-4,236.75	5,673.54	6,310.01	6,135.40	174.62	36.137		
7,800.00	6,482.17	5,400.00	5,400.00	84.87	93.31	88.36	-4,236.75	5,673.54	6,327.66	6,152.13	175.53	36.049		
7,900.00	6,560.28	5,400.00	5,400.00	86.20	93.31	88.36	-4,236.75	5,673.54	6,346.84	6,170.44	176.41	35.979		
8,000.00	6,638.40	5,400.00	5,400.00	87.53	93.31	88.36	-4,236.75	5,673.54	6,367.53	6,190.29	177.24	35.925		
8,100.00	6,716.52	5,400.00	5,400.00	88.86	93.31	88.36	-4,236.75	5,673.54	6,389.72	6,211.68	178.05	35.888		
8,200.00	6,794.63	5,400.00	5,400.00	90.20	93.31	88.36	-4,236.75	5,673.54	6,413.39	6,234.58	178.81	35.867		
8,300.00	6,872.75	5,400.00	5,400.00	91.53	93.31	88.36	-4,236.75	5,673.54	6,438.53	6,258.99	179.54	35.861		
8,400.00	6,950.87	5,400.00	5,400.00	92.86	93.31	88.36	-4,236.75	5,673.54	6,465.12	6,284.89	180.23	35.871		
8,500.00	7,028.98	5,400.00	5,400.00	94.19	93.31	88.36	-4,236.75	5,673.54	6,493.14	6,312.25	180.89	35.895		
8,600.00	7,107.10	5,400.00	5,400.00	95.52	93.31	88.36	-4,236.75	5,673.54	6,522.57	6,341.06	181.51	35.935		
8,647.91	7,144.53	5,400.00	5,400.00	96.16	93.31	88.36	-4,236.75	5,673.54	6,537.16	6,355.37	181.80	35.958		
8,650.00	7,146.16	5,400.00	5,400.00	96.18	93.31	88.14	-4,236.75	5,673.54	6,537.80	6,355.99	181.81	35.959		
8,700.00	7,185.66	5,400.00	5,400.00	96.84	93.31	82.47	-4,236.75	5,673.54	6,551.28	6,369.19	182.09	35.978		
8,750.00	7,225.78	5,400.00	5,400.00	97.47	93.31	76.22	-4,236.75	5,673.54	6,561.16	6,378.82	182.35	35.982		
8,800.00	7,266.21	5,400.00	5,400.00	98.08	93.31	69.59	-4,236.75	5,673.54	6,567.38	6,384.81	182.57	35.972		
8,850.00	7,306.63	5,400.00	5,400.00	98.64	93.31	62.82	-4,236.75	5,673.54	6,569.91	6,387.16	182.76	35.949		
8,900.00	7,346.75	5,400.00	5,400.00	99.17	93.31	56.17	-4,236.75	5,673.54	6,568.73	6,385.83	182.90	35.914		
8,950.00	7,386.25	5,400.00	5,400.00	99.64	93.31	49.82	-4,236.75	5,673.54	6,563.85	6,380.84	183.00	35.867		
9,000.00	7,424.84	5,400.00	5,400.00	100.06	93.31	43.91	-4,236.75	5,673.54	6,555.29	6,372.23	183.06	35.810		
9,050.00	7,462.22	5,400.00	5,400.00	100.42	93.31	38.48	-4,236.75	5,673.54	6,543.11	6,360.04	183.07	35.741		
9,100.00	7,498.11	5,400.00	5,400.00	100.74	93.31	33.51	-4,236.75	5,673.54	6,527.38	6,344.35	183.03	35.662		
9,150.00	7,532.24	5,400.00	5,400.00	100.99	93.31	28.97	-4,236.75	5,673.54	6,508.20	6,325.25	182.95	35.573		
9,200.00	7,564.34	5,400.00	5,400.00	101.19	93.31	24.76	-4,236.75	5,673.54	6,485.67	6,302.85	182.83	35.474		
9,250.00	7,594.17	5,400.00	5,400.00	101.34	93.31	20.80	-4,236.75	5,673.54	6,459.95	6,277.29	182.66	35.365		
9,300.00	7,621.50	5,400.00	5,400.00	101.45	93.31	16.99	-4,236.75	5,673.54	6,431.18	6,248.72	182.47	35.246		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,350.00	7,646.13	5,400.00	5,400.00	101.50	93.31	13.19	-4,236.75	5,673.54	6,399.55	6,217.32	182.23	35.117		
9,400.00	7,667.87	5,400.00	5,400.00	101.51	93.31	9.30	-4,236.75	5,673.54	6,365.26	6,183.28	181.98	34.978		
9,450.00	7,686.55	5,400.00	5,400.00	101.48	93.31	5.14	-4,236.75	5,673.54	6,328.52	6,146.82	181.70	34.829		
9,500.00	7,702.04	5,400.00	5,400.00	101.42	93.31	0.54	-4,236.75	5,673.54	6,289.58	6,108.17	181.41	34.671		
9,550.00	7,714.20	5,400.00	5,400.00	101.33	93.31	-4.73	-4,236.75	5,673.54	6,248.69	6,067.58	181.11	34.503		
9,600.00	7,722.96	5,400.00	5,400.00	101.20	93.31	-10.94	-4,236.75	5,673.54	6,206.13	6,025.33	180.80	34.326		
9,650.00	7,728.24	5,400.00	5,400.00	101.06	93.31	-18.39	-4,236.75	5,673.54	6,162.19	5,981.69	180.50	34.140		
9,699.97	7,730.00	5,400.00	5,400.00	100.90	93.31	-27.33	-4,236.75	5,673.54	6,117.21	5,937.01	180.21	33.945		
9,800.00	7,730.00	5,400.00	5,400.00	100.56	93.31	-27.33	-4,236.75	5,673.54	6,026.47	5,846.84	179.62	33.550		
9,900.00	7,730.00	5,400.00	5,400.00	100.24	93.31	-27.33	-4,236.75	5,673.54	5,936.04	5,757.02	179.02	33.158		
10,000.00	7,730.00	5,400.00	5,400.00	99.93	93.31	-27.33	-4,236.75	5,673.54	5,845.93	5,667.53	178.40	32.769		
10,100.00	7,730.00	5,400.00	5,400.00	99.64	93.31	-27.33	-4,236.75	5,673.54	5,756.14	5,578.39	177.75	32.383		
10,200.00	7,730.00	5,400.00	5,400.00	99.36	93.31	-27.33	-4,236.75	5,673.54	5,666.70	5,489.62	177.08	32.001		
10,300.00	7,730.00	5,400.00	5,400.00	99.09	93.31	-27.33	-4,236.75	5,673.54	5,577.62	5,401.23	176.39	31.621		
10,400.00	7,730.00	5,400.00	5,400.00	98.84	93.31	-27.33	-4,236.75	5,673.54	5,488.91	5,313.24	175.67	31.246		
10,500.00	7,730.00	5,400.00	5,400.00	98.61	93.31	-27.33	-4,236.75	5,673.54	5,400.59	5,225.67	174.93	30.874		
10,600.00	7,730.00	5,400.00	5,400.00	98.39	93.31	-27.33	-4,236.75	5,673.54	5,312.69	5,138.54	174.15	30.506		
10,700.00	7,730.00	5,400.00	5,400.00	98.18	93.31	-27.33	-4,236.75	5,673.54	5,225.23	5,051.87	173.35	30.142		
10,800.00	7,730.00	5,400.00	5,400.00	97.99	93.31	-27.33	-4,236.75	5,673.54	5,138.22	4,965.70	172.53	29.782		
10,900.00	7,730.00	5,400.00	5,400.00	97.81	93.31	-27.33	-4,236.75	5,673.54	5,051.69	4,880.03	171.67	29.428		
11,000.00	7,730.00	5,400.00	5,400.00	97.64	93.31	-27.33	-4,236.75	5,673.54	4,965.67	4,794.90	170.77	29.077		
11,100.00	7,730.00	5,400.00	5,400.00	97.50	93.31	-27.33	-4,236.75	5,673.54	4,880.19	4,710.34	169.85	28.732		
11,200.00	7,730.00	5,400.00	5,400.00	97.36	93.31	-27.33	-4,236.75	5,673.54	4,795.26	4,626.37	168.89	28.393		
11,300.00	7,730.00	5,400.00	5,400.00	97.24	93.31	-27.33	-4,236.75	5,673.54	4,710.93	4,543.03	167.89	28.059		
11,400.00	7,730.00	5,400.00	5,400.00	97.14	93.31	-27.33	-4,236.75	5,673.54	4,627.22	4,460.35	166.86	27.731		
11,500.00	7,730.00	5,400.00	5,400.00	97.06	93.31	-27.33	-4,236.75	5,673.54	4,544.16	4,378.37	165.79	27.409		
11,600.00	7,730.00	5,400.00	5,400.00	96.98	93.31	-27.33	-4,236.75	5,673.54	4,461.81	4,297.13	164.68	27.093		
11,700.00	7,730.00	5,400.00	5,400.00	96.93	93.31	-27.33	-4,236.75	5,673.54	4,380.19	4,216.65	163.53	26.785		
11,800.00	7,730.00	5,400.00	5,400.00	96.90	93.31	-27.33	-4,236.75	5,673.54	4,299.34	4,137.00	162.34	26.483		
11,900.00	7,730.00	5,400.00	5,400.00	96.88	93.31	-27.33	-4,236.75	5,673.54	4,219.32	4,058.21	161.11	26.190		
12,000.00	7,730.00	5,400.00	5,400.00	96.88	93.31	-27.33	-4,236.75	5,673.54	4,140.16	3,980.33	159.83	25.904		
12,100.00	7,730.00	5,400.00	5,400.00	96.90	93.31	-27.33	-4,236.75	5,673.54	4,061.93	3,903.42	158.51	25.626		
12,200.00	7,730.00	5,400.00	5,400.00	96.94	93.31	-27.33	-4,236.75	5,673.54	3,984.66	3,827.52	157.15	25.356		
12,300.00	7,730.00	5,400.00	5,400.00	97.00	93.31	-27.33	-4,236.75	5,673.54	3,908.43	3,752.69	155.74	25.096		
12,400.00	7,730.00	5,400.00	5,400.00	97.08	93.31	-27.33	-4,236.75	5,673.54	3,833.30	3,679.00	154.29	24.844		
12,500.00	7,730.00	5,400.00	5,400.00	97.18	93.31	-27.33	-4,236.75	5,673.54	3,759.32	3,606.51	152.80	24.602		
12,600.00	7,730.00	5,400.00	5,400.00	97.31	93.31	-27.33	-4,236.75	5,673.54	3,686.56	3,535.29	151.27	24.370		
12,700.00	7,730.00	5,400.00	5,400.00	97.46	93.31	-27.33	-4,236.75	5,673.54	3,615.12	3,465.40	149.71	24.147		
12,800.00	7,730.00	5,400.00	5,400.00	97.64	93.31	-27.33	-4,236.75	5,673.54	3,545.05	3,396.93	148.11	23.935		
12,900.00	7,730.00	5,400.00	5,400.00	97.85	93.31	-27.33	-4,236.75	5,673.54	3,476.44	3,329.96	146.49	23.732		
13,000.00	7,730.00	5,400.00	5,400.00	98.09	93.31	-27.33	-4,236.75	5,673.54	3,409.39	3,264.55	144.84	23.539		
13,100.00	7,730.00	5,400.00	5,400.00	98.35	93.31	-27.33	-4,236.75	5,673.54	3,343.99	3,200.81	143.18	23.355		
13,200.00	7,730.00	5,400.00	5,400.00	98.65	93.31	-27.33	-4,236.75	5,673.54	3,280.33	3,138.82	141.51	23.181		
13,300.00	7,730.00	5,400.00	5,400.00	98.98	93.31	-27.33	-4,236.75	5,673.54	3,218.52	3,078.67	139.85	23.014		
13,400.00	7,730.00	5,400.00	5,400.00	99.34	93.31	-27.33	-4,236.75	5,673.54	3,158.67	3,020.47	138.20	22.856		
13,500.00	7,730.00	5,400.00	5,400.00	99.74	93.31	-27.33	-4,236.75	5,673.54	3,100.88	2,964.30	136.58	22.704		
13,600.00	7,730.00	5,400.00	5,400.00	100.17	93.31	-27.33	-4,236.75	5,673.54	3,045.29	2,910.28	135.01	22.556		
13,700.00	7,730.00	5,400.00	5,400.00	100.65	93.31	-27.33	-4,236.75	5,673.54	2,992.00	2,858.51	133.50	22.413		
13,800.00	7,730.00	5,400.00	5,400.00	101.16	93.31	-27.33	-4,236.75	5,673.54	2,941.15	2,809.09	132.07	22.270		
13,900.00	7,730.00	5,400.00	5,400.00	101.71	93.31	-27.33	-4,236.75	5,673.54	2,892.87	2,762.13	130.74	22.127		
14,000.00	7,730.00	5,400.00	5,400.00	102.30	93.31	-27.33	-4,236.75	5,673.54	2,847.28	2,717.74	129.53	21.981		
14,100.00	7,730.00	5,400.00	5,400.00	102.93	93.31	-27.33	-4,236.75	5,673.54	2,804.51	2,676.04	128.47	21.829		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,730.00	5,400.00	5,400.00	103.60	93.31	-27.33	-4,236.75	5,673.54	2,764.71	2,637.12	127.58	21.670		
14,300.00	7,730.00	5,400.00	5,400.00	104.32	93.31	-27.33	-4,236.75	5,673.54	2,727.98	2,601.10	126.88	21.500		
14,400.00	7,730.00	5,400.00	5,400.00	105.07	93.31	-27.33	-4,236.75	5,673.54	2,694.48	2,568.08	126.40	21.318		
14,500.00	7,730.00	5,400.00	5,400.00	105.86	93.31	-27.33	-4,236.75	5,673.54	2,664.30	2,538.16	126.14	21.121		
14,600.00	7,730.00	5,400.00	5,400.00	106.70	93.31	-27.33	-4,236.75	5,673.54	2,637.58	2,511.43	126.15	20.909		
14,700.00	7,730.00	5,400.00	5,400.00	107.57	93.31	-27.33	-4,236.75	5,673.54	2,614.40	2,487.98	126.42	20.680		
14,800.00	7,730.00	5,400.00	5,400.00	108.48	93.31	-27.33	-4,236.75	5,673.54	2,594.88	2,467.90	126.98	20.435		
14,900.00	7,730.00	5,400.00	5,400.00	109.43	93.31	-27.33	-4,236.75	5,673.54	2,579.09	2,451.25	127.84	20.174		
15,000.00	7,730.00	5,400.00	5,400.00	110.42	93.31	-27.33	-4,236.75	5,673.54	2,567.10	2,438.10	129.01	19.899		
15,100.00	7,730.00	5,400.00	5,400.00	111.43	93.31	-27.33	-4,236.75	5,673.54	2,558.97	2,428.50	130.47	19.613		
15,200.00	7,730.00	5,400.00	5,400.00	112.49	93.31	-27.33	-4,236.75	5,673.54	2,554.73	2,422.49	132.24	19.319		
15,258.49	7,730.00	5,400.00	5,400.00	113.12	93.31	-27.33	-4,236.75	5,673.54	2,554.06	2,420.66	133.40	19.146 CC		
15,300.00	7,730.00	5,400.00	5,400.00	113.57	93.31	-27.33	-4,236.75	5,673.54	2,554.39	2,420.11	134.28	19.023 ES		
15,400.00	7,730.00	5,400.00	5,400.00	114.68	93.31	-27.33	-4,236.75	5,673.54	2,557.97	2,421.38	136.59	18.728		
15,500.00	7,730.00	5,400.00	5,400.00	115.82	93.31	-27.33	-4,236.75	5,673.54	2,565.45	2,426.32	139.13	18.440		
15,600.00	7,730.00	5,400.00	5,400.00	116.99	93.31	-27.33	-4,236.75	5,673.54	2,576.79	2,434.92	141.87	18.164		
15,700.00	7,730.00	5,400.00	5,400.00	118.19	93.31	-27.33	-4,236.75	5,673.54	2,591.94	2,447.17	144.76	17.905		
15,800.00	7,730.00	5,400.00	5,400.00	119.41	93.31	-27.33	-4,236.75	5,673.54	2,610.83	2,463.05	147.78	17.666		
15,900.00	7,730.00	5,400.00	5,400.00	120.65	93.31	-27.33	-4,236.75	5,673.54	2,633.39	2,482.50	150.89	17.453		
16,000.00	7,730.00	5,400.00	5,400.00	121.91	93.31	-27.33	-4,236.75	5,673.54	2,659.52	2,505.49	154.03	17.266		
16,100.00	7,730.00	5,400.00	5,400.00	123.20	93.31	-27.33	-4,236.75	5,673.54	2,689.12	2,531.93	157.19	17.108		
16,200.00	7,730.00	5,400.00	5,400.00	124.50	93.31	-27.33	-4,236.75	5,673.54	2,722.07	2,561.75	160.32	16.979		
16,300.00	7,730.00	5,400.00	5,400.00	125.82	93.31	-27.33	-4,236.75	5,673.54	2,758.25	2,594.85	163.40	16.880		
16,400.00	7,730.00	5,400.00	5,400.00	127.16	93.31	-27.33	-4,236.75	5,673.54	2,797.54	2,631.13	166.41	16.811		
16,500.00	7,730.00	5,400.00	5,400.00	128.52	93.31	-27.33	-4,236.75	5,673.54	2,839.82	2,670.49	169.33	16.771		
16,600.00	7,730.00	5,400.00	5,400.00	129.89	93.31	-27.33	-4,236.75	5,673.54	2,884.94	2,712.80	172.14	16.759 SF		
16,700.00	7,730.00	5,400.00	5,400.00	131.27	93.31	-27.33	-4,236.75	5,673.54	2,932.77	2,757.94	174.84	16.774		
16,800.00	7,730.00	5,400.00	5,400.00	132.67	93.31	-27.33	-4,236.75	5,673.54	2,983.20	2,805.78	177.41	16.815		
16,900.00	7,730.00	5,400.00	5,400.00	134.09	93.31	-27.33	-4,236.75	5,673.54	3,036.08	2,856.22	179.86	16.880		
17,000.00	7,730.00	5,400.00	5,400.00	135.51	93.31	-27.33	-4,236.75	5,673.54	3,091.29	2,909.11	182.18	16.968		
17,100.00	7,730.00	5,400.00	5,400.00	136.95	93.31	-27.33	-4,236.75	5,673.54	3,148.71	2,964.33	184.37	17.078		
17,200.00	7,730.00	5,400.00	5,400.00	138.40	93.31	-27.33	-4,236.75	5,673.54	3,208.22	3,021.78	186.44	17.208		
17,300.00	7,730.00	5,400.00	5,400.00	139.85	93.31	-27.33	-4,236.75	5,673.54	3,269.71	3,081.32	188.38	17.357		
17,400.00	7,730.00	5,400.00	5,400.00	141.32	93.31	-27.33	-4,236.75	5,673.54	3,333.06	3,142.85	190.21	17.523		
17,500.00	7,730.00	5,400.00	5,400.00	142.80	93.31	-27.33	-4,236.75	5,673.54	3,398.17	3,206.26	191.91	17.707		
17,600.00	7,730.00	5,400.00	5,400.00	144.28	93.31	-27.33	-4,236.75	5,673.54	3,464.95	3,271.44	193.51	17.906		
17,700.00	7,730.00	5,400.00	5,400.00	145.78	93.31	-27.33	-4,236.75	5,673.54	3,533.30	3,338.29	195.01	18.119		
17,800.00	7,730.00	5,400.00	5,400.00	147.28	93.31	-27.33	-4,236.75	5,673.54	3,603.12	3,406.72	196.40	18.346		
17,900.00	7,730.00	5,400.00	5,400.00	148.79	93.31	-27.33	-4,236.75	5,673.54	3,674.34	3,476.64	197.70	18.585		
18,000.00	7,730.00	5,400.00	5,400.00	150.31	93.31	-27.33	-4,236.75	5,673.54	3,746.88	3,547.96	198.92	18.836		
18,100.00	7,730.00	5,400.00	5,400.00	151.83	93.31	-27.33	-4,236.75	5,673.54	3,820.65	3,620.60	200.05	19.099		
18,200.00	7,730.00	5,400.00	5,400.00	153.37	93.31	-27.33	-4,236.75	5,673.54	3,895.60	3,694.50	201.10	19.371		
18,300.00	7,730.00	5,400.00	5,400.00	154.90	93.31	-27.33	-4,236.75	5,673.54	3,971.65	3,769.56	202.09	19.653		
18,400.00	7,730.00	5,400.00	5,400.00	156.45	93.31	-27.33	-4,236.75	5,673.54	4,048.74	3,845.74	203.00	19.945		
18,500.00	7,730.00	5,400.00	5,400.00	158.00	93.31	-27.33	-4,236.75	5,673.54	4,126.82	3,922.96	203.85	20.244		
18,600.00	7,730.00	5,400.00	5,400.00	159.55	93.31	-27.33	-4,236.75	5,673.54	4,205.82	4,001.17	204.65	20.552		
18,700.00	7,730.00	5,400.00	5,400.00	161.11	93.31	-27.33	-4,236.75	5,673.54	4,285.70	4,080.31	205.38	20.867		
18,800.00	7,730.00	5,400.00	5,400.00	162.68	93.31	-27.33	-4,236.75	5,673.54	4,366.41	4,160.33	206.07	21.189		
18,900.00	7,730.00	5,400.00	5,400.00	164.25	93.31	-27.33	-4,236.75	5,673.54	4,447.90	4,241.19	206.71	21.517		
19,000.00	7,730.00	5,400.00	5,400.00	165.83	93.31	-27.33	-4,236.75	5,673.54	4,530.13	4,322.82	207.31	21.852		
19,100.00	7,730.00	5,400.00	5,400.00	167.41	93.31	-27.33	-4,236.75	5,673.54	4,613.07	4,405.20	207.87	22.192		
19,200.00	7,730.00	5,400.00	5,400.00	168.99	93.31	-27.33	-4,236.75	5,673.54	4,696.67	4,488.29	208.39	22.538		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,300.00	7,730.00	5,400.00	5,400.00	170.58	93.31	-27.33	-4,236.75	5,673.54	4,780.90	4,572.03	208.87	22.889	
19,400.00	7,730.00	5,400.00	5,400.00	172.17	93.31	-27.33	-4,236.75	5,673.54	4,865.73	4,656.41	209.32	23.245	
19,430.54	7,730.00	5,400.00	5,400.00	172.66	93.31	-27.33	-4,236.75	5,673.54	4,891.75	4,682.30	209.45	23.355	

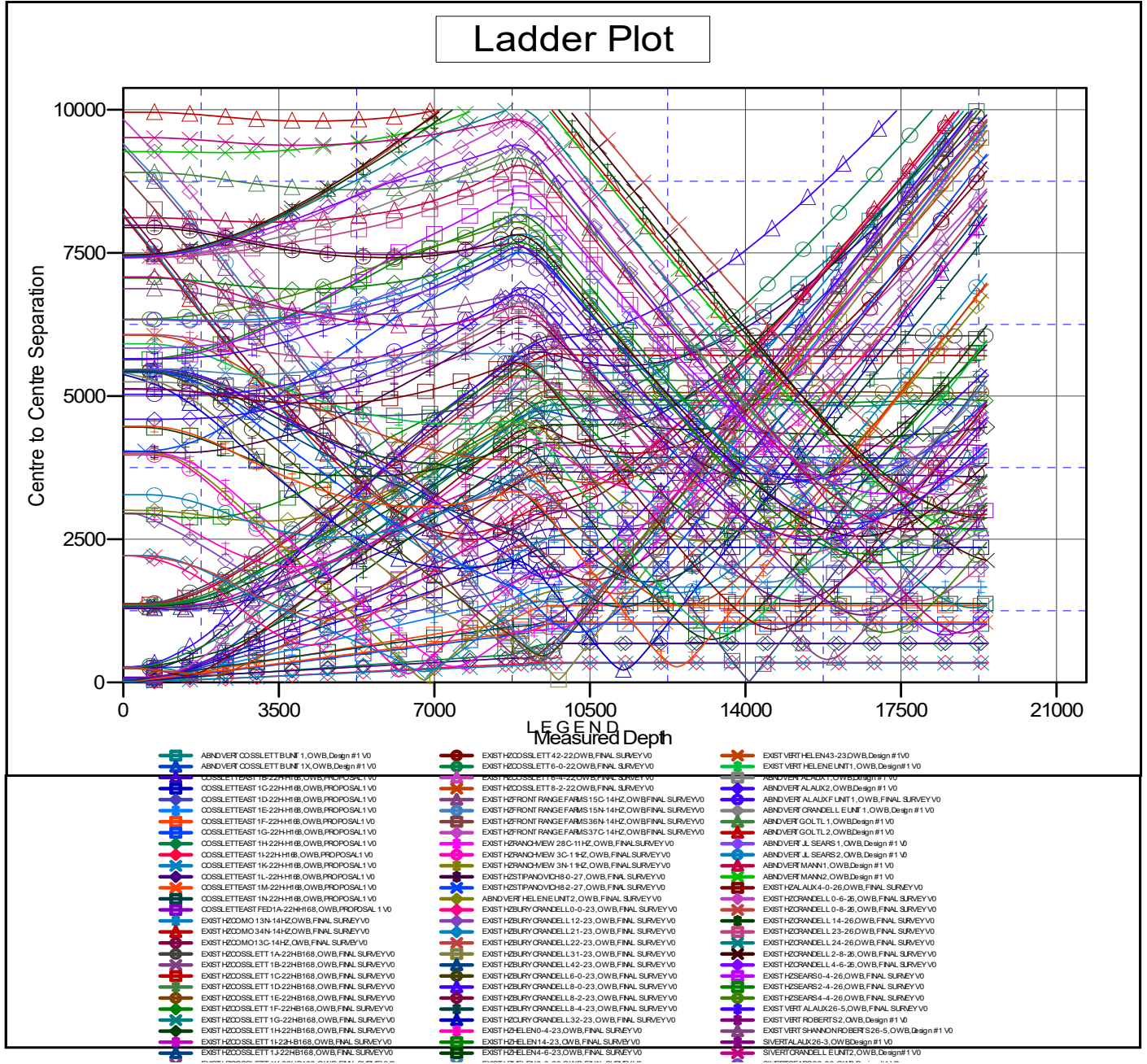
Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Coordinates are relative to: COSSLETT EAST 1J-22H-H168

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



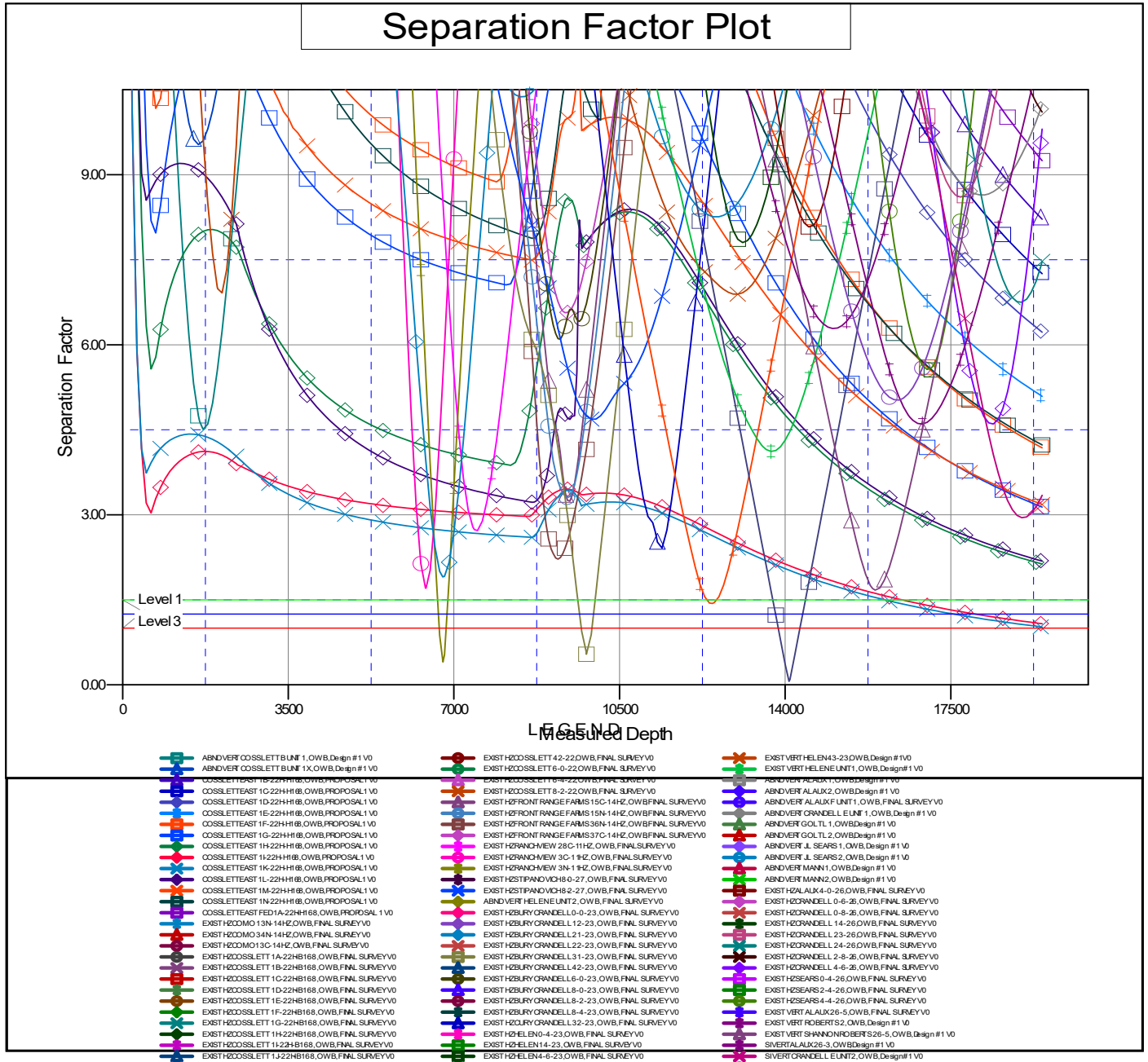
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1J-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5206.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5206.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1J-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 25' @ 5206.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1J-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation