

CRESTONE PEAK RESOURCES

WELD COUNTY

SEC 22-T1N-R68W

COSSLETT EAST 1C-22H-H168

OWB

PROPOSAL 1

Anticollision Report

01 March, 2022

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	18,426.22	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	2,539.46	2,475.19	31.15	-21.29	0.594	Level 1, CC, ES, SF
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,208.31	2,172.62	187.89	142.78	4.165	CC, ES
ABND VERT COSSLETT B UNIT 1X - OWB - Design #1	2,300.00	2,258.17	190.77	143.68	4.052	SF
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	1,200.00	1,200.00	9.81	1.65	1.203	Level 2, CC, ES
COSSLETT EAST 1B-22H-H168 - OWB - PROPOSAL 1	18,426.22	18,453.97	349.16	35.38	1.113	Level 2, SF
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	1,100.00	1,100.00	10.08	2.64	1.355	Level 3, CC, ES
COSSLETT EAST 1D-22H-H168 - OWB - PROPOSAL 1	18,426.22	18,459.97	364.12	41.82	1.130	Level 2, SF
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	1,000.00	1,000.00	20.16	13.44	2.999	CC, ES
COSSLETT EAST 1E-22H-H168 - OWB - PROPOSAL 1	18,426.22	18,800.32	713.82	396.81	2.252	SF
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	900.00	900.00	29.96	23.96	4.990	CC, ES
COSSLETT EAST 1F-22H-H168 - OWB - PROPOSAL 1	18,426.22	18,600.59	1,050.02	725.75	3.238	SF
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	800.00	799.00	40.04	34.76	7.578	CC, ES
COSSLETT EAST 1G-22H-H168 - OWB - PROPOSAL 1	18,426.22	18,942.39	1,339.71	1,014.16	4.115	SF
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	700.00	699.00	50.12	45.55	10.975	CC, ES
COSSLETT EAST 1H-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,021.79	1,692.73	1,366.09	5.182	SF
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	600.00	599.00	59.92	56.07	15.564	CC, ES
COSSLETT EAST 1I-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,383.51	2,044.54	1,721.12	6.322	SF
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	500.00	498.00	70.00	66.87	22.369	CC, ES
COSSLETT EAST 1J-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,430.54	2,359.54	2,033.82	7.244	SF
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	400.00	398.00	80.08	77.67	33.194	CC, ES
COSSLETT EAST 1K-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,518.56	2,681.20	2,354.51	8.207	SF
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	300.00	298.00	90.16	88.47	53.175	CC, ES
COSSLETT EAST 1L-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,889.26	3,032.86	2,708.40	9.348	SF
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	200.00	198.00	99.96	98.98	102.145	CC, ES
COSSLETT EAST 1M-22H-H168 - OWB - PROPOSAL 1	18,426.22	19,796.12	3,388.46	3,060.80	10.341	SF
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	100.00	98.00	110.04	109.78	413.440	CC, ES
COSSLETT EAST 1N-22H-H168 - OWB - PROPOSAL 1	18,426.22	20,184.95	3,739.30	3,413.01	11.460	SF
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	1,200.00	1,200.00	20.16	12.01	2.472	CC, ES
COSSLETT EAST FED 1A-22H-H168 - OWB - PROPOS	18,426.22	18,151.43	647.51	326.90	2.020	SF
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,293.56	16,236.00	201.63	71.78	1.553	CC
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,300.00	16,236.00	201.76	70.52	1.537	ES
EXIST HZ COMO 13N-14HZ - OWB - FINAL SURVEY	8,350.00	16,236.00	211.35	72.96	1.527	SF
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,221.61	16,659.00	759.37	565.85	3.924	CC
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,250.00	16,659.00	759.96	564.27	3.884	ES
EXIST HZ COMO 34N-14HZ - OWB - FINAL SURVEY	8,350.00	16,659.00	771.29	570.15	3.835	SF
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,328.27	16,530.00	633.34	452.74	3.507	CC
EXIST HZ COMO13C-14HZ - OWB - FINAL SURVEY	8,350.00	16,530.00	633.84	451.42	3.475	ES

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

Anticollision Report

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	8,400.00	16,530.00	638.68	453.05	3.441	SF
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	0.00	0.00	1,320.92			
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	200.00	179.06	1,321.50	1,320.73	1,707.115	ES
EXIST HZ COSSLETT 1A-22H-B168 - OWB - FINAL SU	18,426.22	17,546.00	3,699.56	3,367.71	11.148	SF
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	543.35	536.77	1,310.84	1,307.49	391.085	CC, ES
EXIST HZ COSSLETT 1B-22H-B168 - OWB - FINAL SU	18,426.22	17,340.00	3,440.27	3,107.91	10.351	SF
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	295.24	284.26	1,304.50	1,303.00	873.303	CC
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	600.00	583.81	1,304.99	1,301.36	358.631	ES
EXIST HZ COSSLETT 1C-22H-B168 - OWB - FINAL SU	18,426.22	17,471.00	3,345.40	3,012.63	10.053	SF
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	100.00	88.02	1,296.96	1,296.68	4,619.242	CC
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	400.00	382.01	1,297.64	1,295.67	659.370	ES
EXIST HZ COSSLETT 1D-22H-B168 - OWB - FINAL SU	18,426.22	17,472.89	2,984.38	2,652.93	9.004	SF
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	623.30	617.00	1,257.57	1,255.02	493.637	CC
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	700.00	678.26	1,257.97	1,254.88	407.944	ES
EXIST HZ COSSLETT 1E-22H-B168 - OWB - FINAL SU	18,426.22	17,393.11	2,711.58	2,382.20	8.232	SF
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	100.00	88.53	1,280.75	1,280.47	4,620.343	CC
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	400.00	379.47	1,281.51	1,279.40	606.377	ES
EXIST HZ COSSLETT 1F-22H-B168 - OWB - FINAL SU	18,426.22	17,796.00	2,569.01	2,236.14	7.718	SF
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,350.87	1,349.40	1,272.25	1,263.39	143.580	CC
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	1,400.00	1,387.30	1,272.54	1,263.35	138.501	ES
EXIST HZ COSSLETT 1G-22H-B168 - OWB - FINAL SU	18,426.22	17,487.00	2,468.42	2,135.69	7.419	SF
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	1,542.95	1,549.71	1,255.41	1,244.51	115.186	CC
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	2,000.00	2,015.61	1,257.80	1,242.91	84.479	ES
EXIST HZ COSSLETT 1H-22H-B168 - OWB - FINAL SU	18,426.22	17,533.37	2,113.23	1,788.89	6.516	SF
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	3,122.31	3,166.77	1,183.13	1,154.42	41.213	CC
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	3,300.00	3,332.82	1,185.04	1,154.11	38.313	ES
EXIST HZ COSSLETT 1I-22H-B168 - OWB - FINAL SUR	18,400.00	17,583.00	1,775.55	1,443.70	5.350	SF
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	3,502.71	3,543.95	1,122.53	1,088.13	32.631	CC
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	3,801.19	3,858.95	1,123.70	1,085.39	29.334	ES
EXIST HZ COSSLETT 1J-22H-B168 - OWB - FINAL SUR	18,426.22	17,640.16	1,568.33	1,236.85	4.731	SF
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	3,444.18	3,487.42	1,082.85	1,049.64	32.605	CC
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	3,900.00	3,946.85	1,087.09	1,048.47	28.145	ES
EXIST HZ COSSLETT 1K-22H-B168 - OWB - FINAL SU	18,000.00	17,371.13	1,422.62	1,111.72	4.576	SF
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	4,912.22	4,956.90	958.79	904.70	17.726	CC
EXIST HZ COSSLETT 1L-22H-B168 - OWB - FINAL SU	18,426.22	17,824.83	1,237.26	904.31	3.716	ES, SF
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	676.33	668.97	209.28	204.86	47.320	CC
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	700.00	691.75	209.35	204.74	45.435	ES
EXIST HZ COSSLETT 32-22 - OWB - FINAL SURVEY	1,500.00	1,469.71	283.17	272.23	25.876	SF
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	0.00	0.00	237.84			
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	100.00	88.24	237.96	237.68	852.265	ES
EXIST HZ COSSLETT 4-0-22 - OWB - FINAL SURVEY	7,000.00	7,000.00	3,146.99	3,073.00	42.531	SF
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	100.00	89.25	230.72	230.44	825.306	CC, ES
EXIST HZ COSSLETT 41-22 - OWB - FINAL SURVEY	4,100.00	3,970.81	486.09	445.01	11.832	SF
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,754.48	1,752.27	105.16	92.28	8.160	CC, ES
EXIST HZ COSSLETT 42-22 - OWB - FINAL SURVEY	1,800.00	1,796.14	105.64	92.55	8.068	SF
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	171.27	161.28	233.87	233.17	335.596	CC
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	200.00	188.16	233.98	233.09	261.804	ES
EXIST HZ COSSLETT 6-0-22 - OWB - FINAL SURVEY	5,200.00	4,910.07	1,345.77	1,289.84	24.061	SF
EXIST HZ COSSLETT 6-4-22 - OWB - FINAL SURVEY	1,344.31	1,362.00	56.18	45.69	5.353	CC, ES, SF
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	3,112.67	3,024.26	199.72	173.68	7.669	CC
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	3,200.00	3,108.95	201.29	173.39	7.214	ES
EXIST HZ COSSLETT 8-2-22 - OWB - FINAL SURVEY	3,500.00	3,401.99	222.25	188.21	6.528	SF
EXIST HZ FRONT RANGE FARMS 15C-14HZ - OWB - F	8,400.00	15,353.00	2,477.37	2,301.00	14.046	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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
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Well Error:	0.00 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 FRONT RANGE FARMS 15C-14HZ - OWB - F	8,549.90	15,353.00	2,463.75	2,289.78	14.162	CC, ES
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,400.00	15,243.00	2,799.18	2,621.30	15.737	SF
EXIST HZ FRONT RANGE FARMS 15N-14HZ - OWB - F	8,546.30	15,243.00	2,787.69	2,611.83	15.851	CC, ES
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,350.00	15,134.00	1,896.87	1,719.27	10.681	SF
EXIST HZ FRONT RANGE FARMS 36N-14HZ - OWB - F	8,495.65	15,134.00	1,883.92	1,709.73	10.815	CC, ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,350.00	15,352.00	3,388.61	3,211.11	19.090	SF
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,550.00	15,352.00	3,362.58	3,187.73	19.232	ES
EXIST HZ FRONT RANGE FARMS 37C-14HZ - OWB - F	8,574.24	15,352.00	3,362.26	3,187.80	19.272	CC
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,500.00	7,855.39	1,443.82	1,371.02	19.834	SF
EXIST HZ RANCHVIEW 28C-11HZ - OWB - FINAL SUR	8,680.21	7,784.16	1,424.13	1,353.78	20.242	CC, ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,600.00	7,875.18	421.46	348.17	5.750	SF
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,650.00	7,852.12	417.02	345.89	5.862	ES
EXIST HZ RANCHVIEW 3C-11HZ - OWB - FINAL SURV	8,660.66	7,847.71	416.88	346.26	5.903	CC
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,450.00	7,816.88	798.24	725.45	10.966	SF
EXIST HZ RANCHVIEW 3N-11HZ - OWB - FINAL SURV	8,589.94	7,756.00	783.47	713.76	11.239	CC, ES
EXIST HZ STIPANOVICH 8-0-27 - OWB - FINAL SURVE	13,642.62	7,812.43	1,100.16	988.86	9.885	CC, ES, SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,900.00	7,894.63	1,090.01	954.13	8.022	SF
EXIST HZ STIPANOVICH 8-2-27 - OWB - FINAL SURVE	14,922.88	7,894.11	1,089.77	954.08	8.031	CC, ES

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Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	12,100.00	7,682.27	108.54	20.56	1.234	Level 2, ES, SF
ABND VERT HELEN E UNIT 2 - OWB - FINAL SURVEY	12,106.98	7,682.15	108.32	21.08	1.242	Level 2, CC
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	6,314.00	5,953.20	321.75	257.06	4.974	CC, ES
EXIST HZ BURY CRANDELL 0-0-23 - OWB - FINAL SU	6,400.00	6,029.02	324.34	258.87	4.953	SF
EXIST HZ BURY CRANDELL 12-23 - OWB - FINAL SUR	10,262.86	8,035.14	365.20	283.55	4.473	CC, ES, SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,500.00	7,798.76	1,011.59	933.32	12.925	SF
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,740.83	7,846.13	956.23	885.86	13.588	ES
EXIST HZ BURY CRANDELL 21-23 - OWB - FINAL SUR	8,785.36	7,846.47	955.19	886.29	13.862	CC
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,134.49	7,858.78	808.64	736.99	11.285	CC, ES
EXIST HZ BURY CRANDELL 22-23 - OWB - FINAL SUR	10,300.00	7,859.30	825.41	751.52	11.171	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,350.00	7,644.54	2,393.89	2,319.47	32.168	SF
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,740.83	7,749.96	2,315.19	2,245.98	33.448	ES
EXIST HZ BURY CRANDELL 31-23 - OWB - FINAL SUR	8,780.36	7,750.09	2,314.86	2,246.16	33.696	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,191.89	7,758.24	3,675.42	3,603.40	51.029	CC
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	10,200.00	7,758.31	3,675.43	3,603.36	50.998	ES
EXIST HZ BURY CRANDELL 42-23 - OWB - FINAL SUR	12,400.00	7,776.91	4,287.67	4,187.68	42.880	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,250.00	7,606.50	2,843.79	2,769.81	38.438	SF
EXIST HZ BURY CRANDELL 6-0-23 - OWB - FINAL SU	8,580.50	7,751.07	2,795.29	2,724.73	39.618	CC, ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,150.00	7,544.19	4,247.32	4,172.40	56.690	SF
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,600.00	7,756.15	4,169.18	4,098.59	59.065	ES
EXIST HZ BURY CRANDELL 8-0-23 - OWB - FINAL SU	8,607.63	7,757.47	4,169.15	4,098.65	59.139	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,500.00	7,730.19	4,152.03	4,085.93	62.808	ES
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	9,507.26	7,730.23	4,152.03	4,085.93	62.820	CC
EXIST HZ BURY CRANDELL 8-2-23 - OWB - FINAL SU	12,600.00	7,749.58	5,177.26	5,077.57	51.933	SF
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,810.59	7,822.92	4,115.29	4,030.74	48.671	CC
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	10,900.00	7,824.84	4,116.26	4,030.54	48.018	ES
EXIST HZ BURY CRANDELL 8-4-23 - OWB - FINAL SU	14,700.00	14,700.00	5,660.91	5,506.53	36.668	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	9,300.00	7,827.56	2,340.50	2,259.25	28.806	SF
EXIST HZ CURY CRANDELL 32-23 - OWB - FINAL SUR	10,241.37	7,829.74	2,142.84	2,069.42	29.186	CC, ES
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,000.00	7,910.90	967.78	887.41	12.042	SF
EXIST HZ HELEN 0-4-23 - OWB - FINAL SURVEY	11,024.13	7,911.11	967.48	887.20	12.051	CC, ES
EXIST HZ HELEN 14-23 - OWB - FINAL SURVEY	13,059.87	7,819.22	273.59	167.67	2.583	CC, ES, SF
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,229.32	7,780.80	1,607.61	1,515.50	17.454	CC, ES
EXIST HZ HELEN 4-6-23 - OWB - FINAL SURVEY	12,700.00	7,770.14	1,675.06	1,574.13	16.597	SF
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,443.52	7,939.19	4,106.56	3,996.52	37.319	CC
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	13,500.00	7,939.43	4,106.95	3,995.67	36.906	ES
EXIST HZ HELEN 8-8-23 - OWB - FINAL SURVEY	15,400.00	7,947.43	4,548.80	4,401.50	30.881	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	8,650.00	7,633.29	3,291.67	3,114.55	18.584	SF
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,200.00	7,640.00	3,236.73	3,065.70	18.925	ES
EXIST VERT BURY CRANDELL C UNIT 1 - OWB - Desi	9,236.40	7,640.00	3,236.52	3,065.75	18.952	CC
EXIST VERT HELEN 23-23 - OWB - Design #1	11,455.65	7,671.00	795.80	611.06	4.308	CC, ES
EXIST VERT HELEN 23-23 - OWB - Design #1	11,500.00	7,671.00	797.03	611.23	4.290	SF
EXIST VERT HELEN 33-23 - OWB - Design #1	11,447.42	7,708.00	2,086.66	1,901.39	11.263	CC
EXIST VERT HELEN 33-23 - OWB - Design #1	11,500.00	7,708.00	2,087.33	1,901.18	11.213	ES
EXIST VERT HELEN 33-23 - OWB - Design #1	11,900.00	7,708.00	2,135.18	1,942.01	11.053	SF
EXIST VERT HELEN 34-23 - OWB - Design #1	13,067.48	7,683.00	2,372.51	2,165.27	11.448	CC
EXIST VERT HELEN 34-23 - OWB - Design #1	13,100.00	7,683.00	2,372.73	2,164.76	11.409	ES
EXIST VERT HELEN 34-23 - OWB - Design #1	13,600.00	7,683.00	2,431.53	2,213.32	11.143	SF
EXIST VERT HELEN 43-23 - OWB - Design #1	11,587.29	7,675.00	3,702.89	3,516.49	19.865	CC
EXIST VERT HELEN 43-23 - OWB - Design #1	11,600.00	7,675.00	3,702.91	3,516.32	19.845	ES
EXIST VERT HELEN 43-23 - OWB - Design #1	12,700.00	7,675.00	3,866.46	3,661.80	18.892	SF
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,515.11	7,681.00	3,209.22	3,010.19	16.124	CC
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	12,600.00	7,681.00	3,210.34	3,009.68	15.998	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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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						
EXIST VERT HELEN E UNIT 1 - OWB - Design #1	13,400.00	7,681.00	3,328.98	3,113.69	15.463	SF

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	14,253.57	5,050.00	2,819.82	2,718.24	27.760	CC
ABND VERT ALAUX 1 - OWB - Design #1	14,300.00	5,050.00	2,820.20	2,717.85	27.552	ES
ABND VERT ALAUX 1 - OWB - Design #1	15,800.00	5,050.00	3,216.03	3,079.22	23.508	SF
ABND VERT ALAUX 2 - OWB - Design #1	14,258.20	5,450.00	2,284.11	2,204.25	28.600	CC
ABND VERT ALAUX 2 - OWB - Design #1	14,300.00	5,450.00	2,284.50	2,204.07	28.405	ES
ABND VERT ALAUX 2 - OWB - Design #1	15,700.00	5,450.00	2,701.11	2,579.37	22.189	SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,500.00	7,723.48	129.12	2.86	1.023	Level 2, ES, SF
ABND VERT ALAUX F UNIT 1 - OWB - FINAL SURVEY	14,519.77	7,723.20	127.59	3.34	1.027	Level 2, CC
ABND VERT CRANDELL E UNIT 1 - OWB - Design #1	17,199.77	7,746.00	29.78	-246.25	0.108	Level 1, CC, ES, SF
ABND VERT GOLTL 1 - OWB - Design #1	16,870.81	5,042.00	4,426.44	4,232.10	22.777	CC
ABND VERT GOLTL 1 - OWB - Design #1	17,000.00	5,042.00	4,428.32	4,231.42	22.490	ES
ABND VERT GOLTL 1 - OWB - Design #1	18,200.00	5,042.00	4,621.70	4,404.60	21.288	SF
ABND VERT GOLTL 2 - OWB - Design #1	18,189.54	5,020.00	4,440.06	4,227.54	20.893	CC
ABND VERT GOLTL 2 - OWB - Design #1	18,300.00	5,020.00	4,441.43	4,226.69	20.683	ES
ABND VERT GOLTL 2 - OWB - Design #1	18,426.22	5,020.00	4,446.36	4,229.14	20.470	SF
ABND VERT JL SEARS 1 - OWB - Design #1	15,586.42	5,125.00	2,600.19	2,512.13	29.527	CC
ABND VERT JL SEARS 1 - OWB - Design #1	15,600.00	5,125.00	2,600.23	2,512.01	29.474	ES
ABND VERT JL SEARS 1 - OWB - Design #1	17,100.00	5,125.00	3,008.64	2,883.34	24.011	SF
ABND VERT JL SEARS 2 - OWB - Design #1	15,553.35	5,148.00	2,724.22	2,608.87	23.619	CC
ABND VERT JL SEARS 2 - OWB - Design #1	15,600.00	5,148.00	2,724.61	2,608.44	23.453	ES
ABND VERT JL SEARS 2 - OWB - Design #1	16,900.00	5,148.00	3,038.88	2,892.78	20.799	SF
ABND VERT MANN 1 - OWB - Design #1	16,854.06	5,050.00	3,469.18	3,299.60	20.458	CC
ABND VERT MANN 1 - OWB - Design #1	16,900.00	5,050.00	3,469.49	3,299.00	20.351	ES
ABND VERT MANN 1 - OWB - Design #1	17,900.00	5,050.00	3,623.43	3,434.93	19.223	SF
ABND VERT MANN 2 - OWB - Design #1	18,194.31	5,048.00	3,458.99	3,272.99	18.597	CC
ABND VERT MANN 2 - OWB - Design #1	18,300.00	5,048.00	3,460.60	3,272.49	18.397	ES
ABND VERT MANN 2 - OWB - Design #1	18,426.22	5,048.00	3,466.75	3,276.17	18.190	SF
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,655.06	7,757.72	1,433.74	1,323.22	12.973	CC
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	13,700.00	7,757.57	1,434.44	1,322.70	12.837	ES
EXIST HZ ALAUX 4-0-26 - OWB - FINAL SURVEY	14,000.00	7,756.62	1,474.65	1,356.22	12.452	SF
EXIST HZ CRANDELL 0-6-26 - OWB - FINAL SURVEY	17,459.70	7,891.40	921.63	746.94	5.276	CC, ES, SF
EXIST HZ CRANDELL 0-8-26 - OWB - FINAL SURVEY	18,426.22	8,138.66	1,060.15	860.97	5.323	CC, ES, SF
EXIST HZ CRANDELL 14-26 - OWB - FINAL SURVEY	18,360.94	7,927.52	511.86	315.64	2.609	CC, ES, SF
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,819.39	7,868.25	935.73	771.91	5.712	CC, ES
EXIST HZ CRANDELL 23-26 - OWB - FINAL SURVEY	16,900.00	7,867.40	939.20	772.60	5.638	SF
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,101.09	7,907.37	1,050.47	859.91	5.512	CC, ES
EXIST HZ CRANDELL 24-26 - OWB - FINAL SURVEY	18,300.00	7,910.03	1,069.13	871.56	5.411	SF
EXIST HZ CRANDELL 2-8-26 - OWB - FINAL SURVEY	18,426.22	8,022.08	458.77	345.62	4.055	CC, ES, SF
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,483.35	7,987.51	1,527.97	1,351.23	8.645	CC
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,500.00	7,987.42	1,528.06	1,350.71	8.616	ES
EXIST HZ CRANDELL 4-6-26 - OWB - FINAL SURVEY	17,800.00	7,985.87	1,560.44	1,374.57	8.395	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	16,100.00	7,848.55	939.77	786.18	6.119	SF
EXIST HZ SEARS 0-4-26 - OWB - FINAL SURVEY	16,110.34	7,848.34	939.71	786.16	6.120	CC, ES
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,084.14	7,844.78	270.02	116.62	1.760	CC
EXIST HZ SEARS 2-4-26 - OWB - FINAL SURVEY	16,100.00	7,844.44	270.49	115.36	1.744	ES, SF
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,129.77	7,775.44	1,488.52	1,335.17	9.707	CC
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,200.00	7,774.28	1,490.18	1,334.57	9.576	ES
EXIST HZ SEARS 4-4-26 - OWB - FINAL SURVEY	16,400.00	7,770.97	1,512.84	1,352.23	9.419	SF
EXIST VERT ALAUX 26-5 - OWB - FINAL SURVEY	15,299.56	7,720.53	413.42	276.49	3.019	CC, ES, SF
EXIST VERT ROBERTS 2 - OWB - Design #1	15,624.96	7,701.00	3,537.26	3,288.59	14.225	CC
EXIST VERT ROBERTS 2 - OWB - Design #1	15,700.00	7,701.00	3,538.05	3,287.67	14.131	ES
EXIST VERT ROBERTS 2 - OWB - Design #1	16,400.00	7,701.00	3,621.17	3,357.15	13.716	SF
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	14,833.62	7,682.00	2,761.14	2,525.88	11.737	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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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	14,900.00	7,682.00	2,761.93	2,525.10	11.662	ES
EXIST VERT SHANNON ROBERTS 26-5 - OWB - Desig	15,400.00	7,682.00	2,818.63	2,571.49	11.405	SF
SI VERT ALAUX 26-3 - OWB - Design #1	14,104.27	7,707.00	938.17	714.31	4.191	CC, ES
SI VERT ALAUX 26-3 - OWB - Design #1	14,200.00	7,707.00	943.05	715.94	4.152	SF
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	17,874.88	7,704.00	3,220.26	2,933.45	11.228	CC
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,000.00	7,704.00	3,222.69	2,932.90	11.121	ES
SI VERT CRANDELL E UNIT 2 - OWB - Design #1	18,426.22	7,704.00	3,267.12	2,968.88	10.955	SF
SI VERT SEARS 22-26 - OWB - Design #1	15,447.15	7,707.00	1,115.16	869.35	4.537	CC
SI VERT SEARS 22-26 - OWB - Design #1	15,500.00	7,707.00	1,116.41	868.78	4.508	ES
SI VERT SEARS 22-26 - OWB - Design #1	15,600.00	7,707.00	1,125.59	875.10	4.494	SF
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,566.67	5,425.00	4,200.11	4,012.46	22.383	CC
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	15,700.00	5,425.00	4,202.23	4,011.89	22.078	ES
SI VERT SHANNON-ROBERTS 2 - OWB - Design #1	16,900.00	5,425.00	4,406.66	4,195.59	20.877	SF
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,249.09	5,450.00	3,151.60	3,000.77	20.896	CC
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	14,300.00	5,450.00	3,152.01	3,000.18	20.761	ES
SI VERT SHANNON-ROBERTS 3 - OWB - Design #1	15,300.00	5,450.00	3,322.20	3,151.36	19.446	SF
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,571.45	5,450.00	3,155.64	2,988.23	18.850	CC
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	15,600.00	5,450.00	3,155.77	2,987.78	18.785	ES
SI VERT SHANNON-ROBERTS 4 - OWB - Design #1	16,500.00	5,450.00	3,289.42	3,104.22	17.761	SF
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,244.32	5,400.00	4,196.90	4,028.47	24.917	CC
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	14,300.00	5,400.00	4,197.27	4,027.76	24.761	ES
SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Desi	15,700.00	5,400.00	4,442.18	4,248.42	22.926	SF

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					
0.00	0.00	0.00	0.00	0.00	0.00	41.34	232.05	204.12	309.47								
100.00	100.00	84.00	84.00	0.13	0.67	41.34	232.05	204.12	309.05	308.25	0.80	385.596					
200.00	200.00	184.00	184.00	0.49	2.26	41.34	232.05	204.12	309.05	306.30	2.75	112.256					
300.00	300.00	284.00	284.00	0.85	4.01	41.34	232.05	204.12	309.05	304.20	4.86	63.632					
400.00	400.00	384.00	384.00	1.21	5.75	41.34	232.05	204.12	309.05	302.09	6.96	44.400					
500.00	500.00	484.00	484.00	1.57	7.50	41.34	232.05	204.12	309.05	299.99	9.06	34.095					
600.00	600.00	584.00	584.00	1.93	9.24	41.34	232.05	204.12	309.05	297.88	11.17	27.672					
700.00	700.00	684.00	684.00	2.29	10.99	41.34	232.05	204.12	309.05	295.78	13.27	23.286					
800.00	800.00	784.00	784.00	2.64	12.73	41.34	232.05	204.12	309.05	293.68	15.38	20.100					
900.00	900.00	884.00	884.00	3.00	14.48	41.34	232.05	204.12	309.05	291.57	17.48	17.681					
1,000.00	1,000.00	984.00	984.00	3.36	16.22	41.34	232.05	204.12	309.05	289.47	19.58	15.781					
1,100.00	1,100.00	1,084.00	1,084.00	3.72	17.97	41.34	232.05	204.12	309.05	287.37	21.69	14.250					
1,200.00	1,200.00	1,184.00	1,184.00	4.08	19.71	41.34	232.05	204.12	309.05	285.26	23.79	12.990					
1,300.00	1,299.98	1,283.98	1,283.98	4.43	21.46	-5.82	232.05	204.12	307.32	281.42	25.89	11.869					
1,400.00	1,399.84	1,383.84	1,383.84	4.79	23.20	-5.93	232.05	204.12	302.11	274.12	27.99	10.794					
1,500.00	1,499.45	1,483.45	1,483.45	5.15	24.94	-6.13	232.05	204.12	293.44	263.36	30.08	9.754					
1,600.00	1,598.70	1,582.70	1,582.70	5.51	26.67	-6.42	232.05	204.12	281.33	249.16	32.17	8.744					
1,700.00	1,697.47	1,681.47	1,681.47	5.89	28.40	-6.83	232.05	204.12	265.79	231.53	34.25	7.759					
1,800.00	1,795.62	1,779.62	1,779.62	6.28	30.11	-7.41	232.05	204.12	246.85	210.52	36.33	6.795					
1,900.00	1,893.06	1,877.06	1,877.06	6.69	31.81	-8.22	232.05	204.12	224.55	186.17	38.39	5.850					
2,000.00	1,989.64	1,973.64	1,973.64	7.13	33.50	-9.37	232.05	204.12	198.96	158.52	40.44	4.920					

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	2,085.27	2,069.27	2,069.27	7.61	35.16	-11.08	232.05	204.12	170.14	127.67	42.47	4.006		
2,200.00	2,179.82	2,163.82	2,163.82	8.12	36.81	-13.83	232.05	204.12	138.27	93.76	44.50	3.107		
2,300.00	2,273.17	2,257.17	2,257.17	8.67	38.44	-18.77	232.05	204.12	103.67	57.13	46.54	2.228		
2,400.00	2,365.21	2,349.21	2,349.21	9.27	40.05	-29.69	232.05	204.12	67.43	18.77	48.66	1.386	Level 3	
2,500.00	2,455.84	2,439.84	2,439.84	9.92	41.63	-63.15	232.05	204.12	35.75	-15.57	51.32	0.697	Level 1	
2,539.46	2,491.19	2,475.19	2,475.19	10.20	42.25	-90.00	232.05	204.12	31.15	-21.29	52.45	0.594	Level 1, CC, ES, SF	
2,580.62	2,527.80	2,511.80	2,511.80	10.49	42.89	-118.15	232.05	204.12	36.39	-16.57	52.96	0.687	Level 1	
2,600.00	2,544.97	2,528.97	2,528.97	10.63	43.19	-128.33	232.05	204.12	41.75	-11.37	53.12	0.786	Level 1	
2,700.00	2,633.58	2,617.58	2,617.58	11.37	44.73	-154.63	232.05	204.12	80.42	25.95	54.47	1.476	Level 3	
2,800.00	2,722.19	2,706.19	2,706.19	12.13	46.28	-163.73	232.05	204.12	124.45	68.21	56.25	2.213		
2,900.00	2,810.80	2,805.20	2,794.80	12.91	48.01	-168.10	232.05	204.12	169.72	111.43	58.30	2.911		
3,000.00	2,899.41	2,883.41	2,883.41	13.71	49.37	-170.64	232.05	204.12	215.45	155.44	60.02	3.590		
3,100.00	2,988.02	2,972.02	2,972.02	14.52	50.92	-172.29	232.05	204.12	261.40	199.47	61.93	4.221		
3,200.00	3,076.63	3,060.63	3,060.63	15.34	52.47	-173.44	232.05	204.12	307.47	243.61	63.86	4.815		
3,300.00	3,165.24	3,149.24	3,149.24	16.16	54.01	-174.30	232.05	204.12	353.61	287.82	65.79	5.375		
3,400.00	3,253.85	3,237.85	3,237.85	17.00	55.56	-174.96	232.05	204.12	399.80	332.08	67.73	5.903		
3,500.00	3,342.46	3,326.46	3,326.46	17.84	57.11	-175.48	232.05	204.12	446.02	376.36	69.67	6.402		
3,600.00	3,431.07	3,415.07	3,415.07	18.69	58.65	-175.91	232.05	204.12	492.27	420.66	71.61	6.875		
3,700.00	3,519.68	3,503.68	3,503.68	19.55	60.20	-176.26	232.05	204.12	538.53	464.98	73.55	7.322		
3,800.00	3,608.29	3,607.71	3,592.29	20.40	62.02	-176.55	232.05	204.12	584.81	509.04	75.77	7.718		
3,900.00	3,696.90	3,680.90	3,680.90	21.26	63.29	-176.81	232.05	204.12	631.10	553.65	77.45	8.148		
4,000.00	3,785.51	3,769.51	3,769.51	22.13	64.84	-177.03	232.05	204.12	677.40	597.99	79.41	8.531		
4,100.00	3,874.12	3,858.12	3,858.12	23.00	66.39	-177.22	232.05	204.12	723.70	642.34	81.36	8.895		
4,200.00	3,962.73	3,946.73	3,946.73	23.87	67.93	-177.38	232.05	204.12	770.01	686.69	83.32	9.242		
4,300.00	4,051.34	4,035.34	4,035.34	24.74	69.48	-177.53	232.05	204.12	816.32	731.05	85.28	9.573		
4,400.00	4,139.95	4,123.95	4,123.95	25.62	71.03	-177.66	232.05	204.12	862.64	775.40	87.23	9.889		
4,500.00	4,228.56	4,212.56	4,212.56	26.49	72.57	-177.78	232.05	204.12	908.96	819.76	89.20	10.191		
4,600.00	4,317.17	4,301.17	4,301.17	27.37	74.12	-177.89	232.05	204.12	955.28	864.12	91.16	10.479		
4,700.00	4,405.78	4,389.78	4,389.78	28.25	75.66	-177.99	232.05	204.12	1,001.61	908.49	93.12	10.756		
4,800.00	4,494.39	4,478.39	4,478.39	29.13	77.21	-178.08	232.05	204.12	1,047.93	952.85	95.09	11.021		
4,900.00	4,583.00	4,553.00	4,553.00	30.02	78.51	-178.15	232.05	204.12	1,094.35	997.63	96.73	11.314		
5,000.00	4,671.61	4,553.00	4,553.00	30.90	78.51	-178.15	232.05	204.12	1,145.20	1,048.86	96.34	11.887		
5,100.00	4,760.22	4,553.00	4,553.00	31.79	78.51	-178.15	232.05	204.12	1,202.23	1,106.70	95.53	12.585		
5,200.00	4,848.83	4,553.00	4,553.00	32.67	78.51	-178.15	232.05	204.12	1,264.61	1,170.18	94.43	13.393		
5,300.00	4,937.44	4,553.00	4,553.00	33.56	78.51	-178.15	232.05	204.12	1,331.58	1,238.45	93.13	14.298		
5,400.00	5,026.05	4,553.00	4,553.00	34.45	78.51	-178.15	232.05	204.12	1,402.50	1,310.76	91.73	15.289		
5,500.00	5,114.66	4,553.00	4,553.00	35.34	78.51	-178.15	232.05	204.12	1,476.78	1,386.49	90.29	16.356		
5,600.00	5,203.27	4,553.00	4,553.00	36.23	78.51	-178.15	232.05	204.12	1,553.95	1,465.10	88.84	17.491		
5,700.00	5,291.88	4,553.00	4,553.00	37.12	78.51	-178.15	232.05	204.12	1,633.59	1,546.17	87.42	18.686		
5,800.00	5,380.50	4,553.00	4,553.00	38.01	78.51	-178.15	232.05	204.12	1,715.37	1,629.32	86.05	19.934		
5,900.00	5,469.11	4,553.00	4,553.00	38.90	78.51	-178.15	232.05	204.12	1,798.99	1,714.25	84.74	21.229		
6,000.00	5,557.72	4,553.00	4,553.00	39.79	78.51	-178.15	232.05	204.12	1,884.21	1,800.71	83.50	22.565		
6,100.00	5,646.33	4,553.00	4,553.00	40.68	78.51	-178.15	232.05	204.12	1,970.82	1,888.49	82.33	23.939		
6,200.00	5,734.94	4,553.00	4,553.00	41.58	78.51	-178.15	232.05	204.12	2,058.64	1,977.42	81.23	25.345		
6,300.00	5,823.55	4,553.00	4,553.00	42.47	78.51	-178.15	232.05	204.12	2,147.53	2,067.34	80.19	26.780		
6,400.00	5,912.16	4,553.00	4,553.00	43.36	78.51	-178.15	232.05	204.12	2,237.35	2,158.13	79.23	28.239		
6,500.00	6,000.77	4,553.00	4,553.00	44.26	78.51	-178.15	232.05	204.12	2,328.01	2,249.68	78.33	29.721		
6,600.00	6,089.38	4,553.00	4,553.00	45.15	78.51	-178.15	232.05	204.12	2,419.40	2,341.91	77.49	31.222		
6,700.00	6,177.99	4,553.00	4,553.00	46.05	78.51	-178.15	232.05	204.12	2,511.45	2,434.74	76.71	32.739		
6,800.00	6,266.60	4,553.00	4,553.00	46.94	78.51	-178.15	232.05	204.12	2,604.09	2,528.10	75.99	34.270		
6,900.00	6,355.21	4,553.00	4,553.00	47.84	78.51	-178.15	232.05	204.12	2,697.25	2,621.93	75.31	35.813		
7,000.00	6,443.82	4,553.00	4,553.00	48.74	78.51	-178.15	232.05	204.12	2,790.88	2,716.19	74.69	37.366		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
7,100.00	6,532.43	4,553.00	4,553.00	49.63	78.51	-178.15	232.05	204.12	2,884.94	2,810.83	74.11	38.926		
7,200.00	6,621.04	4,553.00	4,553.00	50.53	78.51	-178.15	232.05	204.12	2,979.39	2,905.81	73.58	40.493		
7,300.00	6,709.65	4,553.00	4,553.00	51.42	78.51	-178.15	232.05	204.12	3,074.19	3,001.11	73.08	42.063		
7,400.00	6,798.26	4,553.00	4,553.00	52.32	78.51	-178.15	232.05	204.12	3,169.31	3,096.68	72.63	43.637		
7,500.00	6,886.87	4,553.00	4,553.00	53.22	78.51	-178.15	232.05	204.12	3,264.72	3,192.51	72.21	45.213		
7,600.00	6,975.48	4,553.00	4,553.00	54.12	78.51	-178.15	232.05	204.12	3,360.40	3,288.58	71.82	46.789		
7,656.30	7,025.36	4,553.00	4,553.00	54.62	78.51	-178.15	232.05	204.12	3,414.37	3,342.75	71.62	47.676		
7,700.00	7,064.54	4,553.00	4,553.00	55.00	78.51	164.68	232.05	204.12	3,456.00	3,384.55	71.44	48.374		
7,750.00	7,110.29	4,553.00	4,553.00	55.40	78.51	146.57	232.05	204.12	3,502.69	3,431.48	71.20	49.192		
7,800.00	7,156.67	4,553.00	4,553.00	55.75	78.51	129.05	232.05	204.12	3,548.09	3,477.16	70.92	50.027		
7,850.00	7,203.34	4,553.00	4,553.00	56.05	78.51	112.03	232.05	204.12	3,591.91	3,521.30	70.60	50.874		
7,900.00	7,249.95	4,553.00	4,553.00	56.30	78.51	96.32	232.05	204.12	3,633.87	3,563.63	70.25	51.730		
7,950.00	7,296.14	4,553.00	4,553.00	56.50	78.51	82.76	232.05	204.12	3,673.74	3,603.89	69.86	52.591		
8,000.00	7,341.56	4,553.00	4,553.00	56.64	78.51	71.68	232.05	204.12	3,711.27	3,641.84	69.43	53.452		
8,050.00	7,385.86	4,553.00	4,553.00	56.74	78.51	62.89	232.05	204.12	3,746.26	3,677.28	68.98	54.309		
8,100.00	7,428.71	4,553.00	4,553.00	56.79	78.51	55.99	232.05	204.12	3,778.52	3,710.01	68.51	55.156		
8,150.00	7,469.77	4,553.00	4,553.00	56.80	78.51	50.56	232.05	204.12	3,807.86	3,739.85	68.01	55.987		
8,200.00	7,508.75	4,553.00	4,553.00	56.77	78.51	46.28	232.05	204.12	3,834.14	3,766.63	67.51	56.794		
8,250.00	7,545.33	4,553.00	4,553.00	56.70	78.51	42.88	232.05	204.12	3,857.22	3,790.22	67.00	57.570		
8,300.00	7,579.25	4,553.00	4,553.00	56.59	78.51	40.17	232.05	204.12	3,876.99	3,810.49	66.49	58.308		
8,350.00	7,610.24	4,553.00	4,553.00	56.45	78.51	38.01	232.05	204.12	3,893.34	3,827.34	65.99	58.997		
8,400.00	7,638.06	4,553.00	4,553.00	56.28	78.51	36.29	232.05	204.12	3,906.19	3,840.68	65.51	59.631		
8,450.00	7,662.52	4,553.00	4,553.00	56.09	78.51	34.96	232.05	204.12	3,915.49	3,850.44	65.04	60.198		
8,500.00	7,683.41	4,553.00	4,553.00	55.88	78.51	33.94	232.05	204.12	3,921.18	3,856.57	64.61	60.691		
8,550.00	7,700.59	4,553.00	4,553.00	55.64	78.51	33.20	232.05	204.12	3,923.24	3,859.03	64.21	61.102		
8,600.00	7,713.91	4,553.00	4,553.00	55.39	78.51	32.72	232.05	204.12	3,921.65	3,857.81	63.85	61.422		
8,650.00	7,723.29	4,553.00	4,553.00	55.14	78.51	32.48	232.05	204.12	3,916.44	3,852.91	63.53	61.646		
8,700.00	7,728.64	4,553.00	4,553.00	54.87	78.51	32.46	232.05	204.12	3,907.61	3,844.35	63.26	61.768		
8,740.83	7,730.00	4,553.00	4,553.00	54.65	78.51	32.61	232.05	204.12	3,897.76	3,834.68	63.08	61.791		
8,800.00	7,730.00	4,553.00	4,553.00	54.33	78.51	32.61	232.05	204.12	3,882.19	3,819.33	62.86	61.761		
8,900.00	7,730.00	4,553.00	4,553.00	53.82	78.51	32.61	232.05	204.12	3,857.79	3,795.19	62.60	61.626		
9,000.00	7,730.00	4,553.00	4,553.00	53.33	78.51	32.61	232.05	204.12	3,835.85	3,773.35	62.50	61.376		
9,100.00	7,730.00	4,553.00	4,553.00	52.87	78.51	32.61	232.05	204.12	3,816.40	3,753.86	62.55	61.017		
9,200.00	7,730.00	4,553.00	4,553.00	52.44	78.51	32.61	232.05	204.12	3,799.49	3,736.74	62.75	60.553		
9,300.00	7,730.00	4,553.00	4,553.00	52.03	78.51	32.61	232.05	204.12	3,785.14	3,722.05	63.09	59.994		
9,400.00	7,730.00	4,553.00	4,553.00	51.65	78.51	32.61	232.05	204.12	3,773.39	3,709.82	63.58	59.353		
9,500.00	7,730.00	4,553.00	4,553.00	51.29	78.51	32.61	232.05	204.12	3,764.26	3,700.07	64.19	58.641		
9,600.00	7,730.00	4,553.00	4,553.00	50.95	78.51	32.61	232.05	204.12	3,757.77	3,692.84	64.93	57.873		
9,700.00	7,730.00	4,553.00	4,553.00	50.64	78.51	32.61	232.05	204.12	3,753.94	3,688.15	65.79	57.062		
9,794.08	7,730.00	4,553.00	4,553.00	50.37	78.51	32.61	232.05	204.12	3,752.76	3,686.06	66.69	56.269		
9,800.00	7,730.00	4,553.00	4,553.00	50.35	78.51	32.61	232.05	204.12	3,752.76	3,686.01	66.75	56.220		
9,900.00	7,730.00	4,553.00	4,553.00	50.09	78.51	32.61	232.05	204.12	3,754.25	3,686.44	67.81	55.361		
10,000.00	7,730.00	4,553.00	4,553.00	49.86	78.51	32.61	232.05	204.12	3,758.40	3,689.43	68.97	54.495		
10,100.00	7,730.00	4,553.00	4,553.00	49.65	78.51	32.61	232.05	204.12	3,765.21	3,695.00	70.20	53.632		
10,200.00	7,730.00	4,553.00	4,553.00	49.48	78.51	32.61	232.05	204.12	3,774.65	3,703.13	71.51	52.782		
10,300.00	7,730.00	4,553.00	4,553.00	49.35	78.51	32.61	232.05	204.12	3,786.71	3,713.82	72.89	51.953		
10,400.00	7,730.00	4,553.00	4,553.00	49.27	78.51	32.61	232.05	204.12	3,801.36	3,727.04	74.32	51.151		
10,500.00	7,730.00	4,553.00	4,553.00	49.26	78.51	32.61	232.05	204.12	3,818.57	3,742.78	75.79	50.383		
10,600.00	7,730.00	4,553.00	4,553.00	49.32	78.51	32.61	232.05	204.12	3,838.32	3,761.02	77.30	49.652		
10,700.00	7,730.00	4,553.00	4,553.00	49.51	78.51	32.61	232.05	204.12	3,860.55	3,781.71	78.85	48.963		
10,800.00	7,730.00	4,553.00	4,553.00	49.83	78.51	32.61	232.05	204.12	3,885.24	3,804.83	80.41	48.318		
10,900.00	7,730.00	4,553.00	4,553.00	50.31	78.51	32.61	232.05	204.12	3,912.32	3,830.33	81.99	47.719		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
11,000.00	7,730.00	4,553.00	4,553.00	50.96	78.51	32.61	232.05	204.12	3,941.75	3,858.19	83.57	47.168		
11,100.00	7,730.00	4,553.00	4,553.00	51.75	78.51	32.61	232.05	204.12	3,973.49	3,888.34	85.15	46.664		
11,200.00	7,730.00	4,553.00	4,553.00	52.66	78.51	32.61	232.05	204.12	4,007.47	3,920.74	86.73	46.209		
11,300.00	7,730.00	4,553.00	4,553.00	53.67	78.51	32.61	232.05	204.12	4,043.64	3,955.35	88.29	45.801		
11,400.00	7,730.00	4,553.00	4,553.00	54.75	78.51	32.61	232.05	204.12	4,081.93	3,992.10	89.83	45.439		
11,500.00	7,730.00	4,553.00	4,553.00	55.89	78.51	32.61	232.05	204.12	4,122.30	4,030.94	91.36	45.124		
11,600.00	7,730.00	4,553.00	4,553.00	57.07	78.51	32.61	232.05	204.12	4,164.68	4,071.83	92.85	44.853		
11,700.00	7,730.00	4,553.00	4,553.00	58.30	78.51	32.61	232.05	204.12	4,209.00	4,114.69	94.32	44.625		
11,800.00	7,730.00	4,553.00	4,553.00	59.55	78.51	32.61	232.05	204.12	4,255.22	4,159.47	95.76	44.439		
11,900.00	7,730.00	4,553.00	4,553.00	60.84	78.51	32.61	232.05	204.12	4,303.27	4,206.11	97.16	44.292		
12,000.00	7,730.00	4,553.00	4,553.00	62.15	78.51	32.61	232.05	204.12	4,353.08	4,254.55	98.52	44.184		
12,100.00	7,730.00	4,553.00	4,553.00	63.49	78.51	32.61	232.05	204.12	4,404.60	4,304.75	99.85	44.112		
12,200.00	7,730.00	4,553.00	4,553.00	64.85	78.51	32.61	232.05	204.12	4,457.76	4,356.62	101.14	44.075		
12,300.00	7,730.00	4,553.00	4,553.00	66.22	78.51	32.61	232.05	204.12	4,512.52	4,410.13	102.39	44.072		
12,400.00	7,730.00	4,553.00	4,553.00	67.62	78.51	32.61	232.05	204.12	4,568.81	4,465.21	103.60	44.100		
12,500.00	7,730.00	4,553.00	4,553.00	69.03	78.51	32.61	232.05	204.12	4,626.58	4,521.80	104.77	44.159		
12,600.00	7,730.00	4,553.00	4,553.00	70.45	78.51	32.61	232.05	204.12	4,685.76	4,579.86	105.90	44.246		
12,700.00	7,730.00	4,553.00	4,553.00	71.90	78.51	32.61	232.05	204.12	4,746.32	4,639.33	106.99	44.360		
12,800.00	7,730.00	4,553.00	4,553.00	73.35	78.51	32.61	232.05	204.12	4,808.20	4,700.15	108.05	44.501		
12,900.00	7,730.00	4,553.00	4,553.00	74.81	78.51	32.61	232.05	204.12	4,871.34	4,762.28	109.06	44.665		
13,000.00	7,730.00	4,553.00	4,553.00	76.29	78.51	32.61	232.05	204.12	4,935.70	4,825.66	110.04	44.853		
13,100.00	7,730.00	4,553.00	4,553.00	77.78	78.51	32.61	232.05	204.12	5,001.23	4,890.25	110.98	45.063		
13,200.00	7,730.00	4,553.00	4,553.00	79.28	78.51	32.61	232.05	204.12	5,067.89	4,956.00	111.89	45.294		
13,300.00	7,730.00	4,553.00	4,553.00	80.79	78.51	32.61	232.05	204.12	5,135.63	5,022.87	112.76	45.545		
13,400.00	7,730.00	4,553.00	4,553.00	82.31	78.51	32.61	232.05	204.12	5,204.41	5,090.81	113.60	45.815		
13,500.00	7,730.00	4,553.00	4,553.00	83.84	78.51	32.61	232.05	204.12	5,274.19	5,159.78	114.40	46.102		
13,600.00	7,730.00	4,553.00	4,553.00	85.37	78.51	32.61	232.05	204.12	5,344.93	5,229.75	115.18	46.407		
13,700.00	7,730.00	4,553.00	4,553.00	86.92	78.51	32.61	232.05	204.12	5,416.59	5,300.67	115.92	46.727		
13,800.00	7,730.00	4,553.00	4,553.00	88.47	78.51	32.61	232.05	204.12	5,489.13	5,372.50	116.63	47.063		
13,900.00	7,730.00	4,553.00	4,553.00	90.03	78.51	32.61	232.05	204.12	5,562.53	5,445.21	117.32	47.413		
14,000.00	7,730.00	4,553.00	4,553.00	91.59	78.51	32.61	232.05	204.12	5,636.75	5,518.77	117.98	47.777		
14,100.00	7,730.00	4,553.00	4,553.00	93.16	78.51	32.61	232.05	204.12	5,711.76	5,593.14	118.61	48.155		
14,200.00	7,730.00	4,553.00	4,553.00	94.74	78.51	32.61	232.05	204.12	5,787.52	5,668.29	119.22	48.544		
14,300.00	7,730.00	4,553.00	4,553.00	96.33	78.51	32.61	232.05	204.12	5,864.00	5,744.20	119.81	48.946		
14,400.00	7,730.00	4,553.00	4,553.00	97.92	78.51	32.61	232.05	204.12	5,941.19	5,820.82	120.37	49.359		
14,500.00	7,730.00	4,553.00	4,553.00	99.51	78.51	32.61	232.05	204.12	6,019.04	5,898.14	120.91	49.782		
14,600.00	7,730.00	4,553.00	4,553.00	101.11	78.51	32.61	232.05	204.12	6,097.55	5,976.12	121.43	50.216		
14,700.00	7,730.00	4,553.00	4,553.00	102.72	78.51	32.61	232.05	204.12	6,176.67	6,054.74	121.93	50.659		
14,800.00	7,730.00	4,553.00	4,553.00	104.33	78.51	32.61	232.05	204.12	6,256.39	6,133.99	122.41	51.112		
14,900.00	7,730.00	4,553.00	4,553.00	105.94	78.51	32.61	232.05	204.12	6,336.69	6,213.82	122.87	51.574		
15,000.00	7,730.00	4,553.00	4,553.00	107.56	78.51	32.61	232.05	204.12	6,417.54	6,294.23	123.31	52.044		
15,100.00	7,730.00	4,553.00	4,553.00	109.18	78.51	32.61	232.05	204.12	6,498.92	6,375.18	123.74	52.522		
15,200.00	7,730.00	4,553.00	4,553.00	110.81	78.51	32.61	232.05	204.12	6,580.82	6,456.67	124.15	53.007		
15,300.00	7,730.00	4,553.00	4,553.00	112.44	78.51	32.61	232.05	204.12	6,663.21	6,538.66	124.54	53.501		
15,400.00	7,730.00	4,553.00	4,553.00	114.08	78.51	32.61	232.05	204.12	6,746.08	6,621.15	124.93	54.001		
15,500.00	7,730.00	4,553.00	4,553.00	115.72	78.51	32.61	232.05	204.12	6,829.40	6,704.11	125.29	54.507		
15,600.00	7,730.00	4,553.00	4,553.00	117.36	78.51	32.61	232.05	204.12	6,913.17	6,787.52	125.65	55.020		
15,700.00	7,730.00	4,553.00	4,553.00	119.00	78.51	32.61	232.05	204.12	6,997.36	6,871.37	125.99	55.539		
15,800.00	7,730.00	4,553.00	4,553.00	120.65	78.51	32.61	232.05	204.12	7,081.97	6,955.65	126.32	56.064		
15,900.00	7,730.00	4,553.00	4,553.00	122.30	78.51	32.61	232.05	204.12	7,166.97	7,040.33	126.64	56.595		
16,000.00	7,730.00	4,553.00	4,553.00	123.96	78.51	32.61	232.05	204.12	7,252.36	7,125.41	126.94	57.131		
16,100.00	7,730.00	4,553.00	4,553.00	125.61	78.51	32.61	232.05	204.12	7,338.11	7,210.87	127.24	57.672		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
16,200.00	7,730.00	4,553.00	4,553.00	127.27	78.51	32.61	232.05	204.12	7,424.22	7,296.69	127.53	58.218		
16,300.00	7,730.00	4,553.00	4,553.00	128.94	78.51	32.61	232.05	204.12	7,510.67	7,382.87	127.80	58.768		
16,400.00	7,730.00	4,553.00	4,553.00	130.60	78.51	32.61	232.05	204.12	7,597.46	7,469.39	128.07	59.323		
16,500.00	7,730.00	4,553.00	4,553.00	132.27	78.51	32.61	232.05	204.12	7,684.57	7,556.24	128.33	59.882		
16,600.00	7,730.00	4,553.00	4,553.00	133.94	78.51	32.61	232.05	204.12	7,771.99	7,643.41	128.58	60.445		
16,700.00	7,730.00	4,553.00	4,553.00	135.61	78.51	32.61	232.05	204.12	7,859.70	7,730.88	128.82	61.012		
16,800.00	7,730.00	4,553.00	4,553.00	137.28	78.51	32.61	232.05	204.12	7,947.71	7,818.66	129.06	61.583		
16,900.00	7,730.00	4,553.00	4,553.00	138.96	78.51	32.61	232.05	204.12	8,036.00	7,906.72	129.28	62.158		
17,000.00	7,730.00	4,553.00	4,553.00	140.64	78.51	32.61	232.05	204.12	8,124.56	7,995.06	129.50	62.736		
17,100.00	7,730.00	4,553.00	4,553.00	142.32	78.51	32.61	232.05	204.12	8,213.38	8,083.67	129.72	63.317		
17,200.00	7,730.00	4,553.00	4,553.00	144.00	78.51	32.61	232.05	204.12	8,302.46	8,172.54	129.93	63.901		
17,300.00	7,730.00	4,553.00	4,553.00	145.69	78.51	32.61	232.05	204.12	8,391.78	8,261.66	130.13	64.489		
17,400.00	7,730.00	4,553.00	4,553.00	147.37	78.51	32.61	232.05	204.12	8,481.35	8,351.02	130.32	65.079		
17,500.00	7,730.00	4,553.00	4,553.00	149.06	78.51	32.61	232.05	204.12	8,571.14	8,440.62	130.51	65.672		
17,600.00	7,730.00	4,553.00	4,553.00	150.75	78.51	32.61	232.05	204.12	8,661.16	8,530.46	130.70	66.268		
17,700.00	7,730.00	4,553.00	4,553.00	152.44	78.51	32.61	232.05	204.12	8,751.39	8,620.51	130.88	66.866		
17,800.00	7,730.00	4,553.00	4,553.00	154.13	78.51	32.61	232.05	204.12	8,841.83	8,710.78	131.06	67.466		
17,900.00	7,730.00	4,553.00	4,553.00	155.83	78.51	32.61	232.05	204.12	8,932.48	8,801.25	131.23	68.069		
18,000.00	7,730.00	4,553.00	4,553.00	157.52	78.51	32.61	232.05	204.12	9,023.32	8,891.93	131.39	68.674		
18,100.00	7,730.00	4,553.00	4,553.00	159.22	78.51	32.61	232.05	204.12	9,114.36	8,982.80	131.56	69.282		
18,200.00	7,730.00	4,553.00	4,553.00	160.92	78.51	32.61	232.05	204.12	9,205.58	9,073.87	131.71	69.891		
18,300.00	7,730.00	4,553.00	4,553.00	162.62	78.51	32.61	232.05	204.12	9,296.98	9,165.12	131.87	70.502		
18,400.00	7,730.00	4,553.00	4,553.00	164.32	78.51	32.61	232.05	204.12	9,388.56	9,256.54	132.02	71.115		
18,426.22	7,730.00	4,553.00	4,553.00	164.76	78.51	32.61	232.05	204.12	9,412.60	9,280.54	132.06	71.277		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	0.19	257.19	0.84	257.63					
100.00	100.00	85.00	85.00	0.13	0.66	0.19	257.19	0.84	257.19	256.39	0.79	323.672		
200.00	200.00	185.00	185.00	0.49	2.26	0.19	257.19	0.84	257.19	254.44	2.75	93.418		
300.00	300.00	285.00	285.00	0.85	4.01	0.19	257.19	0.84	257.19	252.33	4.86	52.953		
400.00	400.00	385.00	385.00	1.21	5.75	0.19	257.19	0.84	257.19	250.23	6.96	36.949		
500.00	500.00	485.00	485.00	1.57	7.50	0.19	257.19	0.84	257.19	248.12	9.06	28.373		
600.00	600.00	585.00	585.00	1.93	9.24	0.19	257.19	0.84	257.19	246.02	11.17	23.028		
700.00	700.00	685.00	685.00	2.29	10.99	0.19	257.19	0.84	257.19	243.92	13.27	19.378		
800.00	800.00	785.00	785.00	2.64	12.73	0.19	257.19	0.84	257.19	241.81	15.38	16.727		
900.00	900.00	885.00	885.00	3.00	14.48	0.19	257.19	0.84	257.19	239.71	17.48	14.714		
1,000.00	1,000.00	985.00	985.00	3.36	16.22	0.19	257.19	0.84	257.19	237.61	19.58	13.133		
1,100.00	1,100.00	1,085.00	1,085.00	3.72	17.97	0.19	257.19	0.84	257.19	235.50	21.69	11.859		
1,200.00	1,200.00	1,185.00	1,185.00	4.08	19.71	0.19	257.19	0.84	257.19	233.40	23.79	10.810		
1,300.00	1,299.98	1,284.98	1,284.98	4.43	21.46	-47.24	257.19	0.84	256.00	230.11	25.89	9.887		
1,400.00	1,399.84	1,384.84	1,384.84	4.79	23.20	-48.16	257.19	0.84	252.48	224.49	27.99	9.020		
1,500.00	1,499.45	1,484.45	1,484.45	5.15	24.94	-49.75	257.19	0.84	246.74	216.65	30.09	8.201		
1,600.00	1,598.70	1,583.70	1,583.70	5.51	26.67	-52.09	257.19	0.84	239.02	206.84	32.18	7.427		
1,700.00	1,697.47	1,682.47	1,682.47	5.89	28.40	-55.30	257.19	0.84	229.68	195.40	34.28	6.700		
1,800.00	1,795.62	1,780.62	1,780.62	6.28	30.11	-59.53	257.19	0.84	219.26	182.88	36.38	6.027		
1,900.00	1,893.06	1,878.06	1,878.06	6.69	31.81	-64.95	257.19	0.84	208.56	170.07	38.49	5.419		
2,000.00	1,989.64	1,974.64	1,974.64	7.13	33.50	-71.70	257.19	0.84	198.70	158.08	40.62	4.892		
2,100.00	2,085.27	2,070.27	2,070.27	7.61	35.16	-79.84	257.19	0.84	191.20	148.43	42.77	4.471		
2,200.00	2,179.82	2,164.82	2,164.82	8.12	36.81	-89.18	257.19	0.84	187.92	142.98	44.93	4.182		
2,208.31	2,187.62	2,172.62	2,172.62	8.16	36.95	-90.00	257.19	0.84	187.89	142.78	45.11	4.165 CC, ES		
2,300.00	2,273.17	2,258.17	2,258.17	8.67	38.44	-99.24	257.19	0.84	190.77	143.68	47.08	4.052 SF		
2,400.00	2,365.21	2,350.21	2,350.21	9.27	40.05	-109.31	257.19	0.84	201.24	152.05	49.18	4.091		
2,500.00	2,455.84	2,440.84	2,440.84	9.92	41.63	-118.67	257.19	0.84	219.94	168.73	51.21	4.295		
2,580.62	2,527.80	2,512.80	2,512.80	10.49	42.89	-125.40	257.19	0.84	240.84	188.06	52.78	4.563		
2,600.00	2,544.97	2,529.97	2,529.97	10.63	43.19	-126.98	257.19	0.84	246.56	193.41	53.15	4.639		
2,700.00	2,633.58	2,618.58	2,618.58	11.37	44.73	-134.17	257.19	0.84	278.82	223.77	55.05	5.065		
2,800.00	2,722.19	2,707.19	2,707.19	12.13	46.28	-139.96	257.19	0.84	314.62	257.69	56.93	5.526		
2,900.00	2,810.80	2,804.20	2,795.80	12.91	47.97	-144.63	257.19	0.84	352.88	293.93	58.95	5.986		
3,000.00	2,899.41	2,884.41	2,884.41	13.71	49.37	-148.43	257.19	0.84	392.89	332.20	60.69	6.474		
3,100.00	2,988.02	2,973.02	2,973.02	14.52	50.92	-151.55	257.19	0.84	434.16	371.59	62.57	6.939		
3,200.00	3,076.63	3,061.63	3,061.63	15.34	52.47	-154.15	257.19	0.84	476.37	411.90	64.47	7.390		
3,300.00	3,165.24	3,150.24	3,150.24	16.16	54.01	-156.35	257.19	0.84	519.28	452.92	66.36	7.825		
3,400.00	3,253.85	3,238.85	3,238.85	17.00	55.56	-158.21	257.19	0.84	562.74	494.47	68.27	8.243		
3,500.00	3,342.46	3,327.46	3,327.46	17.84	57.11	-159.82	257.19	0.84	606.63	536.44	70.18	8.644		
3,600.00	3,431.07	3,416.07	3,416.07	18.69	58.65	-161.21	257.19	0.84	650.85	578.75	72.10	9.027		
3,700.00	3,519.68	3,504.68	3,504.68	19.55	60.20	-162.43	257.19	0.84	695.36	621.34	74.02	9.394		
3,800.00	3,608.29	3,606.71	3,593.29	20.40	61.98	-163.50	257.19	0.84	740.09	663.91	76.18	9.715		
3,900.00	3,696.90	3,681.90	3,681.90	21.26	63.29	-164.45	257.19	0.84	785.01	707.13	77.88	10.080		
4,000.00	3,785.51	3,770.51	3,770.51	22.13	64.84	-165.30	257.19	0.84	830.08	750.27	79.81	10.400		
4,100.00	3,874.12	3,859.12	3,859.12	23.00	66.39	-166.07	257.19	0.84	875.29	793.54	81.75	10.707		
4,200.00	3,962.73	3,947.73	3,947.73	23.87	67.93	-166.76	257.19	0.84	920.61	836.92	83.69	11.000		
4,300.00	4,051.34	4,036.34	4,036.34	24.74	69.48	-167.39	257.19	0.84	966.03	880.40	85.63	11.281		
4,400.00	4,139.95	4,124.95	4,124.95	25.62	71.03	-167.96	257.19	0.84	1,011.54	923.96	87.58	11.550		
4,500.00	4,228.56	4,213.56	4,213.56	26.49	72.57	-168.48	257.19	0.84	1,057.12	967.59	89.53	11.808		
4,600.00	4,317.17	4,302.17	4,302.17	27.37	74.12	-168.96	257.19	0.84	1,102.76	1,011.28	91.48	12.055		
4,700.00	4,405.78	4,409.22	4,390.78	28.25	75.99	-169.40	257.19	0.84	1,148.46	1,054.71	93.75	12.250		
4,800.00	4,494.39	4,479.39	4,479.39	29.13	77.21	-169.81	257.19	0.84	1,194.20	1,098.82	95.38	12.520		
4,900.00	4,583.00	4,568.00	4,568.00	30.02	78.76	-170.18	257.19	0.84	1,240.00	1,142.66	97.34	12.739		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,656.61	4,656.61	30.90	80.30	-170.54	257.19	0.84	1,285.83	1,186.54	99.29	12.950		
5,100.00	4,760.22	4,745.22	4,745.22	31.79	81.85	-170.86	257.19	0.84	1,331.70	1,230.45	101.25	13.152		
5,200.00	4,848.83	4,833.83	4,833.83	32.67	83.40	-171.17	257.19	0.84	1,377.60	1,274.39	103.21	13.347		
5,300.00	4,937.44	4,922.44	4,922.44	33.56	84.94	-171.45	257.19	0.84	1,423.53	1,318.36	105.17	13.535		
5,400.00	5,026.05	5,011.05	5,011.05	34.45	86.49	-171.72	257.19	0.84	1,469.49	1,362.35	107.14	13.716		
5,500.00	5,114.66	5,100.34	5,099.66	35.34	88.05	-171.97	257.19	0.84	1,515.47	1,406.36	109.11	13.889		
5,600.00	5,203.27	5,188.27	5,188.27	36.23	89.58	-172.21	257.19	0.84	1,561.47	1,450.40	111.06	14.059		
5,700.00	5,291.88	5,276.88	5,276.88	37.12	91.13	-172.43	257.19	0.84	1,607.49	1,494.46	113.03	14.222		
5,800.00	5,380.50	5,365.50	5,365.50	38.01	92.68	-172.65	257.19	0.84	1,653.53	1,538.53	115.00	14.379		
5,900.00	5,469.11	5,454.11	5,454.11	38.90	94.22	-172.84	257.19	0.84	1,699.59	1,582.62	116.96	14.531		
6,000.00	5,557.72	5,542.72	5,542.72	39.79	95.77	-173.03	257.19	0.84	1,745.66	1,626.73	118.93	14.678		
6,100.00	5,646.33	5,631.33	5,631.33	40.68	97.32	-173.21	257.19	0.84	1,791.75	1,670.85	120.90	14.820		
6,200.00	5,734.94	5,719.94	5,719.94	41.58	98.86	-173.38	257.19	0.84	1,837.85	1,714.98	122.87	14.958		
6,300.00	5,823.55	5,808.55	5,808.55	42.47	100.41	-173.55	257.19	0.84	1,883.96	1,759.12	124.84	15.091		
6,400.00	5,912.16	5,902.84	5,897.16	43.36	102.06	-173.70	257.19	0.84	1,930.08	1,803.17	126.91	15.208		
6,500.00	6,000.77	5,985.77	5,985.77	44.26	103.50	-173.85	257.19	0.84	1,976.21	1,847.43	128.79	15.345		
6,600.00	6,089.38	6,074.38	6,074.38	45.15	105.05	-173.99	257.19	0.84	2,022.36	1,891.60	130.76	15.466		
6,700.00	6,177.99	6,162.99	6,162.99	46.05	106.60	-174.12	257.19	0.84	2,068.51	1,935.78	132.73	15.584		
6,800.00	6,266.60	6,251.60	6,251.60	46.94	108.14	-174.25	257.19	0.84	2,114.67	1,979.97	134.71	15.698		
6,900.00	6,355.21	6,340.21	6,340.21	47.84	109.69	-174.37	257.19	0.84	2,160.84	2,024.16	136.68	15.809		
7,000.00	6,443.82	6,428.82	6,428.82	48.74	111.24	-174.49	257.19	0.84	2,207.02	2,068.36	138.66	15.917		
7,100.00	6,532.43	6,517.43	6,517.43	49.63	112.78	-174.61	257.19	0.84	2,253.20	2,112.57	140.63	16.022		
7,200.00	6,621.04	6,606.04	6,606.04	50.53	114.33	-174.71	257.19	0.84	2,299.39	2,156.79	142.61	16.124		
7,300.00	6,709.65	6,705.35	6,694.65	51.42	116.06	-174.82	257.19	0.84	2,345.59	2,200.82	144.77	16.202		
7,400.00	6,798.26	6,783.26	6,783.26	52.32	117.42	-174.92	257.19	0.84	2,391.79	2,245.23	146.56	16.319		
7,500.00	6,886.87	6,871.87	6,871.87	53.22	118.97	-175.01	257.19	0.84	2,438.00	2,289.46	148.54	16.413		
7,600.00	6,975.48	6,960.48	6,960.48	54.12	120.51	-175.11	257.19	0.84	2,484.22	2,333.70	150.52	16.504		
7,656.30	7,025.36	7,010.36	7,010.36	54.62	121.39	-175.16	257.19	0.84	2,510.24	2,358.60	151.63	16.554		
7,700.00	7,064.54	7,049.54	7,049.54	55.00	122.07	175.94	257.19	0.84	2,529.57	2,377.07	152.50	16.587		
7,750.00	7,110.29	7,104.71	7,095.29	55.40	123.03	164.25	257.19	0.84	2,549.48	2,395.81	153.68	16.590		
7,800.00	7,156.67	7,141.67	7,141.67	55.75	123.68	151.06	257.19	0.84	2,566.91	2,412.39	154.52	16.612		
7,850.00	7,203.34	7,188.34	7,188.34	56.05	124.49	137.14	257.19	0.84	2,581.73	2,426.21	155.52	16.600		
7,900.00	7,249.95	7,234.95	7,234.95	56.30	125.31	123.79	257.19	0.84	2,593.88	2,437.37	156.52	16.573		
7,950.00	7,296.14	7,281.14	7,281.14	56.50	126.11	112.15	257.19	0.84	2,603.32	2,445.84	157.49	16.530		
8,000.00	7,341.56	7,326.56	7,326.56	56.64	126.90	102.74	257.19	0.84	2,610.04	2,451.61	158.43	16.474		
8,050.00	7,385.86	7,370.86	7,370.86	56.74	127.68	95.50	257.19	0.84	2,614.06	2,454.71	159.34	16.405		
8,100.00	7,428.71	7,413.71	7,413.71	56.79	128.42	90.09	257.19	0.84	2,615.42	2,455.20	160.22	16.324		
8,150.00	7,469.77	7,454.77	7,454.77	56.80	129.14	86.18	257.19	0.84	2,614.19	2,453.14	161.05	16.232		
8,200.00	7,508.75	7,506.25	7,493.75	56.77	130.04	83.44	257.19	0.84	2,610.48	2,448.42	162.06	16.108		
8,250.00	7,545.33	7,530.33	7,530.33	56.70	130.46	81.64	257.19	0.84	2,604.40	2,441.82	162.58	16.019		
8,300.00	7,579.25	7,564.25	7,564.25	56.59	131.05	80.60	257.19	0.84	2,596.09	2,432.83	163.26	15.901		
8,350.00	7,610.24	7,604.77	7,595.24	56.45	131.76	80.20	257.19	0.84	2,585.70	2,421.63	164.06	15.760		
8,400.00	7,638.06	7,623.06	7,623.06	56.28	132.08	80.31	257.19	0.84	2,573.39	2,408.91	164.48	15.646		
8,450.00	7,662.52	7,647.52	7,647.52	56.09	132.51	80.87	257.19	0.84	2,559.34	2,394.34	165.00	15.511		
8,500.00	7,683.41	7,668.41	7,668.41	55.88	132.87	81.81	257.19	0.84	2,543.73	2,378.26	165.47	15.373		
8,550.00	7,700.59	7,685.59	7,685.59	55.64	133.17	83.06	257.19	0.84	2,526.73	2,360.86	165.87	15.233		
8,600.00	7,713.91	7,701.09	7,698.91	55.39	133.44	84.58	257.19	0.84	2,508.53	2,342.27	166.26	15.088		
8,650.00	7,723.29	7,708.29	7,708.29	55.14	133.57	86.34	257.19	0.84	2,489.30	2,322.79	166.51	14.950		
8,700.00	7,728.64	7,713.64	7,713.64	54.87	133.66	88.29	257.19	0.84	2,469.22	2,302.48	166.74	14.809		
8,740.83	7,730.00	7,715.00	7,715.00	54.65	133.68	90.00	257.19	0.84	2,452.29	2,285.41	166.88	14.695		
8,800.00	7,730.00	7,715.00	7,715.00	54.33	133.68	90.00	257.19	0.84	2,428.06	2,261.00	167.07	14.534		
8,900.00	7,730.00	7,715.00	7,715.00	53.82	133.68	90.00	257.19	0.84	2,389.89	2,222.47	167.42	14.275		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,715.00	7,715.00	53.33	133.68	90.00	257.19	0.84	2,355.34	2,187.53	167.82	14.035		
9,100.00	7,730.00	7,715.00	7,715.00	52.87	133.68	90.00	257.19	0.84	2,324.59	2,156.32	168.27	13.815		
9,200.00	7,730.00	7,715.00	7,715.00	52.44	133.68	90.00	257.19	0.84	2,297.78	2,129.02	168.76	13.616		
9,300.00	7,730.00	7,715.00	7,715.00	52.03	133.68	90.00	257.19	0.84	2,275.05	2,105.75	169.30	13.438		
9,400.00	7,730.00	7,715.00	7,715.00	51.65	133.68	90.00	257.19	0.84	2,256.53	2,086.66	169.87	13.283		
9,500.00	7,730.00	7,715.00	7,715.00	51.29	133.68	90.00	257.19	0.84	2,242.32	2,071.84	170.48	13.153		
9,600.00	7,730.00	7,715.00	7,715.00	50.95	133.68	90.00	257.19	0.84	2,232.51	2,061.39	171.11	13.047		
9,700.00	7,730.00	7,715.00	7,715.00	50.64	133.68	90.00	257.19	0.84	2,227.14	2,055.38	171.76	12.967		
9,769.64	7,730.00	7,715.00	7,715.00	50.44	133.68	90.00	257.19	0.84	2,226.05	2,053.83	172.22	12.926		
9,800.00	7,730.00	7,715.00	7,715.00	50.35	133.68	90.00	257.19	0.84	2,226.26	2,053.85	172.41	12.913		
9,900.00	7,730.00	7,715.00	7,715.00	50.09	133.68	90.00	257.19	0.84	2,229.87	2,056.80	173.06	12.885		
10,000.00	7,730.00	7,715.00	7,715.00	49.86	133.68	90.00	257.19	0.84	2,237.94	2,064.23	173.71	12.883		
10,100.00	7,730.00	7,715.00	7,715.00	49.65	133.68	90.00	257.19	0.84	2,250.43	2,076.09	174.34	12.908		
10,200.00	7,730.00	7,715.00	7,715.00	49.48	133.68	90.00	257.19	0.84	2,267.27	2,092.32	174.95	12.960		
10,300.00	7,730.00	7,715.00	7,715.00	49.35	133.68	90.00	257.19	0.84	2,288.36	2,112.83	175.53	13.037		
10,400.00	7,730.00	7,715.00	7,715.00	49.27	133.68	90.00	257.19	0.84	2,313.58	2,137.50	176.08	13.139		
10,500.00	7,730.00	7,715.00	7,715.00	49.26	133.68	90.00	257.19	0.84	2,342.81	2,166.21	176.60	13.266		
10,600.00	7,730.00	7,715.00	7,715.00	49.32	133.68	90.00	257.19	0.84	2,375.88	2,198.80	177.08	13.417		
10,700.00	7,730.00	7,715.00	7,715.00	49.51	133.68	90.00	257.19	0.84	2,412.65	2,235.13	177.52	13.591		
10,800.00	7,730.00	7,715.00	7,715.00	49.83	133.68	90.00	257.19	0.84	2,452.95	2,275.02	177.93	13.786		
10,900.00	7,730.00	7,715.00	7,715.00	50.31	133.68	90.00	257.19	0.84	2,496.60	2,318.31	178.29	14.003		
11,000.00	7,730.00	7,715.00	7,715.00	50.96	133.68	90.00	257.19	0.84	2,543.44	2,364.82	178.62	14.239		
11,100.00	7,730.00	7,715.00	7,715.00	51.75	133.68	90.00	257.19	0.84	2,593.29	2,414.37	178.92	14.494		
11,200.00	7,730.00	7,715.00	7,715.00	52.66	133.68	90.00	257.19	0.84	2,645.99	2,466.80	179.18	14.767		
11,300.00	7,730.00	7,715.00	7,715.00	53.67	133.68	90.00	257.19	0.84	2,701.36	2,521.94	179.41	15.057		
11,400.00	7,730.00	7,715.00	7,715.00	54.75	133.68	90.00	257.19	0.84	2,759.24	2,579.62	179.62	15.362		
11,500.00	7,730.00	7,715.00	7,715.00	55.89	133.68	90.00	257.19	0.84	2,819.48	2,639.69	179.79	15.682		
11,600.00	7,730.00	7,715.00	7,715.00	57.07	133.68	90.00	257.19	0.84	2,881.93	2,701.99	179.94	16.016		
11,700.00	7,730.00	7,715.00	7,715.00	58.30	133.68	90.00	257.19	0.84	2,946.46	2,766.38	180.07	16.362		
11,800.00	7,730.00	7,715.00	7,715.00	59.55	133.68	90.00	257.19	0.84	3,012.92	2,832.74	180.18	16.721		
11,900.00	7,730.00	7,715.00	7,715.00	60.84	133.68	90.00	257.19	0.84	3,081.19	2,900.92	180.28	17.092		
12,000.00	7,730.00	7,715.00	7,715.00	62.15	133.68	90.00	257.19	0.84	3,151.16	2,970.81	180.35	17.472		
12,100.00	7,730.00	7,715.00	7,715.00	63.49	133.68	90.00	257.19	0.84	3,222.72	3,042.30	180.41	17.863		
12,200.00	7,730.00	7,715.00	7,715.00	64.85	133.68	90.00	257.19	0.84	3,295.75	3,115.29	180.46	18.263		
12,300.00	7,730.00	7,715.00	7,715.00	66.22	133.68	90.00	257.19	0.84	3,370.17	3,189.67	180.50	18.671		
12,400.00	7,730.00	7,715.00	7,715.00	67.62	133.68	90.00	257.19	0.84	3,445.88	3,265.36	180.53	19.088		
12,500.00	7,730.00	7,715.00	7,715.00	69.03	133.68	90.00	257.19	0.84	3,522.81	3,342.26	180.55	19.512		
12,600.00	7,730.00	7,715.00	7,715.00	70.45	133.68	90.00	257.19	0.84	3,600.87	3,420.31	180.56	19.943		
12,700.00	7,730.00	7,715.00	7,715.00	71.90	133.68	90.00	257.19	0.84	3,679.99	3,499.43	180.57	20.380		
12,800.00	7,730.00	7,715.00	7,715.00	73.35	133.68	90.00	257.19	0.84	3,760.11	3,579.54	180.57	20.824		
12,900.00	7,730.00	7,715.00	7,715.00	74.81	133.68	90.00	257.19	0.84	3,841.16	3,660.60	180.56	21.273		
13,000.00	7,730.00	7,715.00	7,715.00	76.29	133.68	90.00	257.19	0.84	3,923.08	3,742.53	180.55	21.728		
13,100.00	7,730.00	7,715.00	7,715.00	77.78	133.68	90.00	257.19	0.84	4,005.82	3,825.28	180.54	22.188		
13,200.00	7,730.00	7,715.00	7,715.00	79.28	133.68	90.00	257.19	0.84	4,089.34	3,908.81	180.53	22.652		
13,300.00	7,730.00	7,715.00	7,715.00	80.79	133.68	90.00	257.19	0.84	4,173.58	3,993.07	180.51	23.121		
13,400.00	7,730.00	7,715.00	7,715.00	82.31	133.68	90.00	257.19	0.84	4,258.50	4,078.01	180.49	23.594		
13,500.00	7,730.00	7,715.00	7,715.00	83.84	133.68	90.00	257.19	0.84	4,344.07	4,163.60	180.47	24.071		
13,600.00	7,730.00	7,715.00	7,715.00	85.37	133.68	90.00	257.19	0.84	4,430.24	4,249.79	180.45	24.551		
13,700.00	7,730.00	7,715.00	7,715.00	86.92	133.68	90.00	257.19	0.84	4,516.98	4,336.55	180.43	25.035		
13,800.00	7,730.00	7,715.00	7,715.00	88.47	133.68	90.00	257.19	0.84	4,604.25	4,423.85	180.40	25.522		
13,900.00	7,730.00	7,715.00	7,715.00	90.03	133.68	90.00	257.19	0.84	4,692.04	4,511.66	180.38	26.012		
14,000.00	7,730.00	7,715.00	7,715.00	91.59	133.68	90.00	257.19	0.84	4,780.30	4,599.95	180.36	26.505		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,730.00	7,715.00	7,715.00	93.16	133.68	90.00	257.19	0.84	4,869.02	4,688.69	180.33	27.000		
14,200.00	7,730.00	7,715.00	7,715.00	94.74	133.68	90.00	257.19	0.84	4,958.17	4,777.86	180.31	27.498		
14,300.00	7,730.00	7,715.00	7,715.00	96.33	133.68	90.00	257.19	0.84	5,047.72	4,867.43	180.29	27.998		
14,400.00	7,730.00	7,715.00	7,715.00	97.92	133.68	90.00	257.19	0.84	5,137.66	4,957.40	180.27	28.500		
14,500.00	7,730.00	7,715.00	7,715.00	99.51	133.68	90.00	257.19	0.84	5,227.97	5,047.72	180.24	29.005		
14,600.00	7,730.00	7,715.00	7,715.00	101.11	133.68	90.00	257.19	0.84	5,318.62	5,138.40	180.22	29.511		
14,700.00	7,730.00	7,715.00	7,715.00	102.72	133.68	90.00	257.19	0.84	5,409.60	5,229.40	180.20	30.019		
14,800.00	7,730.00	7,715.00	7,715.00	104.33	133.68	90.00	257.19	0.84	5,500.90	5,320.71	180.18	30.529		
14,900.00	7,730.00	7,715.00	7,715.00	105.94	133.68	90.00	257.19	0.84	5,592.49	5,412.32	180.17	31.041		
15,000.00	7,730.00	7,715.00	7,715.00	107.56	133.68	90.00	257.19	0.84	5,684.37	5,504.22	180.15	31.554		
15,100.00	7,730.00	7,715.00	7,715.00	109.18	133.68	90.00	257.19	0.84	5,776.51	5,596.38	180.13	32.068		
15,200.00	7,730.00	7,715.00	7,715.00	110.81	133.68	90.00	257.19	0.84	5,868.91	5,688.80	180.12	32.584		
15,300.00	7,730.00	7,715.00	7,715.00	112.44	133.68	90.00	257.19	0.84	5,961.56	5,781.46	180.10	33.101		
15,400.00	7,730.00	7,715.00	7,715.00	114.08	133.68	90.00	257.19	0.84	6,054.45	5,874.35	180.09	33.619		
15,500.00	7,730.00	7,715.00	7,715.00	115.72	133.68	90.00	257.19	0.84	6,147.55	5,967.47	180.08	34.138		
15,600.00	7,730.00	7,715.00	7,715.00	117.36	133.68	90.00	257.19	0.84	6,240.87	6,060.80	180.07	34.658		
15,700.00	7,730.00	7,715.00	7,715.00	119.00	133.68	90.00	257.19	0.84	6,334.39	6,154.33	180.06	35.179		
15,800.00	7,730.00	7,715.00	7,715.00	120.65	133.68	90.00	257.19	0.84	6,428.11	6,248.06	180.05	35.702		
15,900.00	7,730.00	7,715.00	7,715.00	122.30	133.68	90.00	257.19	0.84	6,522.01	6,341.97	180.04	36.224		
16,000.00	7,730.00	7,715.00	7,715.00	123.96	133.68	90.00	257.19	0.84	6,616.10	6,436.06	180.04	36.748		
16,100.00	7,730.00	7,715.00	7,715.00	125.61	133.68	90.00	257.19	0.84	6,710.35	6,530.32	180.03	37.273		
16,200.00	7,730.00	7,715.00	7,715.00	127.27	133.68	90.00	257.19	0.84	6,804.77	6,624.74	180.03	37.798		
16,300.00	7,730.00	7,715.00	7,715.00	128.94	133.68	90.00	257.19	0.84	6,899.34	6,719.32	180.03	38.324		
16,400.00	7,730.00	7,715.00	7,715.00	130.60	133.68	90.00	257.19	0.84	6,994.07	6,814.04	180.03	38.850		
16,500.00	7,730.00	7,715.00	7,715.00	132.27	133.68	90.00	257.19	0.84	7,088.94	6,908.92	180.03	39.377		
16,600.00	7,730.00	7,715.00	7,715.00	133.94	133.68	90.00	257.19	0.84	7,183.95	7,003.92	180.03	39.905		
16,700.00	7,730.00	7,715.00	7,715.00	135.61	133.68	90.00	257.19	0.84	7,279.10	7,099.07	180.03	40.433		
16,800.00	7,730.00	7,715.00	7,715.00	137.28	133.68	90.00	257.19	0.84	7,374.37	7,194.34	180.03	40.961		
16,900.00	7,730.00	7,715.00	7,715.00	138.96	133.68	90.00	257.19	0.84	7,469.77	7,289.73	180.04	41.490		
17,000.00	7,730.00	7,715.00	7,715.00	140.64	133.68	90.00	257.19	0.84	7,565.28	7,385.24	180.04	42.019		
17,100.00	7,730.00	7,715.00	7,715.00	142.32	133.68	90.00	257.19	0.84	7,660.91	7,480.86	180.05	42.548		
17,200.00	7,730.00	7,715.00	7,715.00	144.00	133.68	90.00	257.19	0.84	7,756.65	7,576.59	180.06	43.078		
17,300.00	7,730.00	7,715.00	7,715.00	145.69	133.68	90.00	257.19	0.84	7,852.50	7,672.43	180.07	43.608		
17,400.00	7,730.00	7,715.00	7,715.00	147.37	133.68	90.00	257.19	0.84	7,948.44	7,768.36	180.08	44.138		
17,500.00	7,730.00	7,715.00	7,715.00	149.06	133.68	90.00	257.19	0.84	8,044.49	7,864.40	180.09	44.669		
17,600.00	7,730.00	7,715.00	7,715.00	150.75	133.68	90.00	257.19	0.84	8,140.63	7,960.53	180.10	45.200		
17,700.00	7,730.00	7,715.00	7,715.00	152.44	133.68	90.00	257.19	0.84	8,236.87	8,056.75	180.12	45.731		
17,800.00	7,730.00	7,715.00	7,715.00	154.13	133.68	90.00	257.19	0.84	8,333.19	8,153.06	180.13	46.262		
17,900.00	7,730.00	7,715.00	7,715.00	155.83	133.68	90.00	257.19	0.84	8,429.60	8,249.45	180.15	46.793		
18,000.00	7,730.00	7,715.00	7,715.00	157.52	133.68	90.00	257.19	0.84	8,526.09	8,345.92	180.16	47.324		
18,100.00	7,730.00	7,715.00	7,715.00	159.22	133.68	90.00	257.19	0.84	8,622.66	8,442.48	180.18	47.855		
18,200.00	7,730.00	7,715.00	7,715.00	160.92	133.68	90.00	257.19	0.84	8,719.31	8,539.11	180.20	48.386		
18,300.00	7,730.00	7,715.00	7,715.00	162.62	133.68	90.00	257.19	0.84	8,816.03	8,635.81	180.22	48.918		
18,400.00	7,730.00	7,715.00	7,715.00	164.32	133.68	90.00	257.19	0.84	8,912.83	8,732.58	180.24	49.449		
18,426.22	7,730.00	7,715.00	7,715.00	164.76	133.68	90.00	257.19	0.84	8,938.22	8,757.97	180.25	49.588		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	0.00	0.00	0.00	0.00	-87.87	0.36	-9.80	9.81				
100.00	100.00	100.00	100.00	0.13	0.13	-87.87	0.36	-9.80	9.81	9.54	0.27	36.477	
200.00	200.00	200.00	200.00	0.49	0.49	-87.87	0.36	-9.80	9.81	8.82	0.99	9.948	
300.00	300.00	300.00	300.00	0.85	0.85	-87.87	0.36	-9.80	9.81	8.10	1.70	5.759	
400.00	400.00	400.00	400.00	1.21	1.21	-87.87	0.36	-9.80	9.81	7.39	2.42	4.053	
500.00	500.00	500.00	500.00	1.57	1.57	-87.87	0.36	-9.80	9.81	6.67	3.14	3.127	
600.00	600.00	600.00	600.00	1.93	1.93	-87.87	0.36	-9.80	9.81	5.95	3.85	2.545	
700.00	700.00	700.00	700.00	2.29	2.29	-87.87	0.36	-9.80	9.81	5.24	4.57	2.146	
800.00	800.00	800.00	800.00	2.64	2.64	-87.87	0.36	-9.80	9.81	4.52	5.29	1.855	
900.00	900.00	900.00	900.00	3.00	3.00	-87.87	0.36	-9.80	9.81	3.80	6.00	1.633	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-87.87	0.36	-9.80	9.81	3.09	6.72	1.459	Level 3
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-87.87	0.36	-9.80	9.81	2.37	7.44	1.318	Level 3
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-87.87	0.36	-9.80	9.81	1.65	8.16	1.203	Level 2, CC, ES
1,300.00	1,299.98	1,299.98	1,299.98	4.43	4.44	-141.35	0.36	-9.80	11.11	2.24	8.87	1.253	Level 3
1,400.00	1,399.84	1,400.26	1,400.24	4.79	4.79	-149.85	1.65	-8.60	14.07	4.49	9.58	1.469	Level 3
1,500.00	1,499.45	1,500.67	1,500.51	5.15	5.15	-154.55	5.51	-5.01	17.34	7.06	10.27	1.688	
1,600.00	1,598.70	1,601.20	1,600.64	5.51	5.51	-157.07	11.94	0.98	20.77	9.81	10.96	1.895	
1,700.00	1,697.47	1,701.84	1,700.53	5.89	5.88	-158.31	20.96	9.37	24.32	12.68	11.65	2.088	
1,800.00	1,795.62	1,802.61	1,800.03	6.28	6.25	-158.72	32.56	20.16	27.96	15.63	12.33	2.268	
1,900.00	1,893.06	1,903.49	1,899.03	6.69	6.65	-158.59	46.72	33.34	31.66	18.66	13.01	2.434	
2,000.00	1,989.64	2,004.48	1,997.40	7.13	7.06	-158.09	63.45	48.91	35.44	21.75	13.69	2.588	
2,100.00	2,085.27	2,105.59	2,095.01	7.61	7.50	-157.33	82.73	66.86	39.29	24.90	14.39	2.731	
2,200.00	2,179.82	2,206.80	2,191.74	8.12	7.98	-156.37	104.55	87.16	43.21	28.11	15.10	2.862	
2,300.00	2,273.17	2,308.13	2,287.45	8.67	8.49	-155.28	128.88	109.80	47.21	31.37	15.84	2.980	
2,400.00	2,365.21	2,409.56	2,382.03	9.27	9.04	-154.09	155.70	134.77	51.29	34.67	16.62	3.087	
2,500.00	2,455.84	2,511.10	2,475.35	9.92	9.65	-152.82	184.99	162.02	55.46	38.01	17.45	3.179	
2,580.62	2,527.80	2,592.71	2,549.31	10.49	10.16	-151.80	210.23	185.52	58.94	40.76	18.17	3.243	
2,600.00	2,544.97	2,612.06	2,566.78	10.63	10.29	-151.62	216.33	191.19	59.88	41.51	18.37	3.260	
2,700.00	2,633.58	2,711.94	2,656.94	11.37	10.96	-150.79	247.78	220.46	64.73	45.34	19.39	3.338	
2,800.00	2,722.19	2,811.82	2,747.11	12.13	11.65	-150.07	279.24	249.74	69.60	49.16	20.45	3.404	
2,900.00	2,810.80	2,911.70	2,837.27	12.91	12.36	-149.44	310.69	279.01	74.48	52.95	21.53	3.459	
3,000.00	2,899.41	3,011.58	2,927.43	13.71	13.08	-148.90	342.15	308.28	79.37	56.73	22.64	3.506	
3,100.00	2,988.02	3,111.45	3,017.59	14.52	13.82	-148.41	373.60	337.56	84.26	60.49	23.77	3.545	
3,200.00	3,076.63	3,211.33	3,107.75	15.34	14.56	-147.98	405.06	366.83	89.16	64.24	24.92	3.578	
3,300.00	3,165.24	3,311.21	3,197.92	16.16	15.32	-147.60	436.51	396.11	94.06	67.97	26.09	3.606	
3,400.00	3,253.85	3,411.09	3,288.08	17.00	16.08	-147.25	467.97	425.38	98.97	71.70	27.27	3.629	
3,500.00	3,342.46	3,510.97	3,378.24	17.84	16.85	-146.94	499.42	454.66	103.88	75.41	28.46	3.649	
3,600.00	3,431.07	3,610.84	3,468.40	18.69	17.62	-146.65	530.88	483.93	108.79	79.12	29.67	3.666	
3,700.00	3,519.68	3,710.72	3,558.56	19.55	18.40	-146.39	562.33	513.20	113.70	82.81	30.89	3.681	
3,800.00	3,608.29	3,810.60	3,648.73	20.40	19.19	-146.15	593.79	542.48	118.62	86.50	32.12	3.694	
3,900.00	3,696.90	3,910.48	3,738.89	21.26	19.98	-145.93	625.24	571.75	123.54	90.19	33.35	3.704	
4,000.00	3,785.51	4,010.35	3,829.05	22.13	20.77	-145.73	656.70	601.03	128.46	93.86	34.59	3.713	
4,100.00	3,874.12	4,110.23	3,919.21	23.00	21.56	-145.54	688.15	630.30	133.38	97.54	35.84	3.721	
4,200.00	3,962.73	4,210.11	4,009.37	23.87	22.36	-145.36	719.61	659.57	138.30	101.21	37.10	3.728	
4,300.00	4,051.34	4,309.99	4,099.54	24.74	23.16	-145.20	751.06	688.85	143.23	104.87	38.36	3.734	
4,400.00	4,139.95	4,409.87	4,189.70	25.62	23.96	-145.05	782.52	718.12	148.15	108.53	39.63	3.739	
4,500.00	4,228.56	4,509.74	4,279.86	26.49	24.77	-144.90	813.97	747.40	153.08	112.18	40.90	3.743	
4,600.00	4,317.17	4,609.62	4,370.02	27.37	25.57	-144.77	845.43	776.67	158.01	115.84	42.17	3.747	
4,700.00	4,405.78	4,709.50	4,460.18	28.25	26.38	-144.65	876.89	805.95	162.94	119.49	43.45	3.750	
4,800.00	4,494.39	4,809.38	4,550.35	29.13	27.19	-144.53	908.34	835.22	167.86	123.13	44.73	3.753	
4,900.00	4,583.00	4,909.26	4,640.51	30.02	28.00	-144.42	939.80	864.49	172.79	126.78	46.02	3.755	
5,000.00	4,671.61	5,009.13	4,730.67	30.90	28.81	-144.31	971.25	893.77	177.72	130.42	47.31	3.757	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,109.01	4,820.83	31.79	29.62	-144.21	1,002.71	923.04	182.66	134.06	48.60	3.759		
5,200.00	4,848.83	5,208.89	4,910.99	32.67	30.44	-144.12	1,034.16	952.32	187.59	137.70	49.89	3.760		
5,300.00	4,937.44	5,308.77	5,001.16	33.56	31.25	-144.03	1,065.62	981.59	192.52	141.33	51.19	3.761		
5,400.00	5,026.05	5,408.64	5,091.32	34.45	32.07	-143.94	1,097.07	1,010.86	197.45	144.97	52.48	3.762		
5,500.00	5,114.66	5,508.52	5,181.48	35.34	32.89	-143.86	1,128.53	1,040.14	202.38	148.60	53.78	3.763		
5,600.00	5,203.27	5,608.40	5,271.64	36.23	33.70	-143.78	1,159.98	1,069.41	207.32	152.23	55.09	3.763		
5,700.00	5,291.88	5,708.28	5,361.80	37.12	34.52	-143.71	1,191.44	1,098.69	212.25	155.86	56.39	3.764		
5,800.00	5,380.50	5,808.16	5,451.97	38.01	35.34	-143.64	1,222.89	1,127.96	217.18	159.49	57.70	3.764		
5,900.00	5,469.11	5,908.03	5,542.13	38.90	36.16	-143.57	1,254.35	1,157.24	222.12	163.11	59.00	3.765		
6,000.00	5,557.72	6,007.91	5,632.29	39.79	36.98	-143.51	1,285.80	1,186.51	227.05	166.74	60.31	3.765		
6,100.00	5,646.33	6,107.79	5,722.45	40.68	37.80	-143.45	1,317.26	1,215.78	231.99	170.37	61.62	3.765		
6,200.00	5,734.94	6,207.67	5,812.61	41.58	38.62	-143.39	1,348.71	1,245.06	236.92	173.99	62.93	3.765		
6,300.00	5,823.55	6,307.55	5,902.78	42.47	39.44	-143.33	1,380.17	1,274.33	241.86	177.61	64.24	3.765		
6,400.00	5,912.16	6,407.42	5,992.94	43.36	40.26	-143.28	1,411.62	1,303.61	246.79	181.23	65.56	3.764		
6,500.00	6,000.77	6,507.30	6,083.10	44.26	41.09	-143.23	1,443.08	1,332.88	251.73	184.85	66.87	3.764		
6,600.00	6,089.38	6,607.18	6,173.26	45.15	41.91	-143.18	1,474.53	1,362.15	256.66	188.48	68.19	3.764		
6,700.00	6,177.99	6,707.06	6,263.42	46.05	42.73	-143.13	1,505.99	1,391.43	261.60	192.09	69.50	3.764		
6,800.00	6,266.60	6,806.94	6,353.59	46.94	43.56	-143.08	1,537.44	1,420.70	266.54	195.71	70.82	3.763		
6,900.00	6,355.21	6,906.81	6,443.75	47.84	44.38	-143.04	1,568.90	1,449.98	271.47	199.33	72.14	3.763		
7,000.00	6,443.82	7,006.69	6,533.91	48.74	45.20	-142.99	1,600.35	1,479.25	276.41	202.95	73.46	3.763		
7,100.00	6,532.43	7,106.57	6,624.07	49.63	46.03	-142.95	1,631.81	1,508.53	281.34	206.57	74.78	3.762		
7,200.00	6,621.04	7,206.45	6,714.23	50.53	46.85	-142.91	1,663.26	1,537.80	286.28	210.18	76.10	3.762		
7,300.00	6,709.65	7,306.32	6,804.40	51.42	47.68	-142.87	1,694.72	1,567.07	291.22	213.80	77.42	3.762		
7,400.00	6,798.26	7,406.20	6,894.56	52.32	48.50	-142.84	1,726.17	1,596.35	296.15	217.41	78.74	3.761		
7,500.00	6,886.87	7,506.08	6,984.72	53.22	49.33	-142.80	1,757.63	1,625.62	301.09	221.03	80.06	3.761		
7,600.00	6,975.48	7,605.96	7,074.88	54.12	50.16	-142.77	1,789.08	1,654.90	306.03	224.64	81.39	3.760		
7,656.30	7,025.36	7,662.18	7,125.64	54.62	50.62	-142.75	1,806.79	1,671.38	308.81	226.68	82.13	3.760		
7,700.00	7,064.54	7,705.41	7,164.71	55.00	50.98	-149.82	1,820.26	1,684.06	310.91	228.02	82.89	3.751		
7,750.00	7,110.29	7,753.99	7,209.41	55.40	51.35	-159.60	1,832.50	1,698.56	313.33	229.51	83.81	3.738		
7,800.00	7,156.67	7,802.79	7,255.15	55.75	51.68	-171.23	1,840.74	1,713.39	315.80	231.14	84.66	3.730		
7,850.00	7,203.34	7,851.82	7,301.62	56.05	51.97	176.09	1,844.87	1,728.43	318.31	232.90	85.42	3.727		
7,900.00	7,249.95	7,901.09	7,348.48	56.30	52.21	163.67	1,844.80	1,743.59	320.85	234.79	86.06	3.728		
7,950.00	7,296.14	7,950.62	7,395.41	56.50	52.39	152.69	1,840.47	1,758.76	323.39	236.79	86.60	3.734		
8,000.00	7,341.56	8,000.41	7,442.06	56.64	52.53	143.67	1,831.84	1,773.82	325.91	238.91	87.01	3.746		
8,050.00	7,385.86	8,050.47	7,488.07	56.74	52.62	136.57	1,818.91	1,788.66	328.41	241.12	87.29	3.762		
8,100.00	7,428.71	8,100.80	7,533.08	56.79	52.67	131.07	1,801.70	1,803.16	330.85	243.41	87.44	3.784		
8,150.00	7,469.77	8,151.41	7,576.71	56.80	52.67	126.83	1,780.28	1,817.21	333.21	245.76	87.45	3.810		
8,200.00	7,508.75	8,202.30	7,618.60	56.77	52.63	123.55	1,754.75	1,830.67	335.48	248.15	87.34	3.841		
8,250.00	7,545.33	8,253.47	7,658.39	56.70	52.54	121.00	1,725.25	1,843.44	337.64	250.55	87.09	3.877		
8,300.00	7,579.25	8,304.91	7,695.71	56.59	52.43	119.01	1,691.95	1,855.40	339.67	252.94	86.73	3.917		
8,350.00	7,610.24	8,356.62	7,730.21	56.45	52.27	117.46	1,655.08	1,866.44	341.55	255.30	86.25	3.960		
8,400.00	7,638.06	8,408.57	7,761.55	56.28	52.09	116.25	1,614.89	1,876.44	343.26	257.57	85.69	4.006		
8,450.00	7,662.52	8,460.77	7,789.43	56.09	51.87	115.33	1,571.68	1,885.31	344.78	259.74	85.04	4.054		
8,500.00	7,683.41	8,513.19	7,813.54	55.88	51.63	114.64	1,525.79	1,892.96	346.11	261.76	84.34	4.103		
8,550.00	7,700.59	8,565.81	7,833.64	55.64	51.37	114.14	1,477.59	1,899.30	347.21	263.60	83.61	4.153		
8,600.00	7,713.91	8,618.62	7,849.50	55.39	51.09	113.80	1,427.49	1,904.26	348.10	265.23	82.86	4.201		
8,650.00	7,723.29	8,671.57	7,860.93	55.14	50.80	113.62	1,375.92	1,907.78	348.74	266.61	82.13	4.246		
8,700.00	7,728.64	8,724.66	7,867.79	54.87	50.51	113.57	1,323.34	1,909.82	349.14	267.72	81.42	4.288		
8,740.83	7,730.00	8,768.09	7,869.94	54.65	50.26	113.62	1,279.98	1,910.37	349.28	268.41	80.87	4.319		
8,800.00	7,730.00	8,827.75	7,870.00	54.33	49.92	113.63	1,220.32	1,910.19	349.29	268.82	80.46	4.341		
8,900.00	7,730.00	8,927.75	7,870.00	53.82	49.38	113.63	1,120.32	1,909.85	349.28	269.33	79.96	4.368		
9,000.00	7,730.00	9,027.75	7,870.00	53.33	48.87	113.63	1,020.32	1,909.51	349.28	269.70	79.58	4.389		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	9,127.75	7,870.00	52.87	48.39	113.63	920.32	1,909.17	349.28	269.94	79.34	4.402		
9,200.00	7,730.00	9,227.75	7,870.00	52.44	47.94	113.63	820.32	1,908.83	349.28	270.04	79.24	4.408		
9,300.00	7,730.00	9,327.75	7,870.00	52.03	47.51	113.63	720.32	1,908.49	349.28	270.00	79.27	4.406		
9,400.00	7,730.00	9,427.75	7,870.00	51.65	47.11	113.63	620.32	1,908.15	349.28	269.83	79.45	4.396		
9,500.00	7,730.00	9,527.75	7,870.00	51.29	46.73	113.63	520.32	1,907.81	349.28	269.52	79.76	4.379		
9,600.00	7,730.00	9,627.75	7,870.00	50.95	46.38	113.63	420.32	1,907.47	349.28	269.08	80.20	4.355		
9,700.00	7,730.00	9,727.75	7,870.00	50.64	46.05	113.63	320.32	1,907.13	349.27	268.50	80.77	4.324		
9,800.00	7,730.00	9,827.75	7,870.00	50.35	45.74	113.63	220.32	1,906.79	349.27	267.79	81.48	4.287		
9,900.00	7,730.00	9,927.75	7,870.00	50.09	45.46	113.63	120.32	1,906.45	349.27	266.96	82.31	4.243		
10,000.00	7,730.00	10,027.75	7,870.00	49.86	45.20	113.63	20.32	1,906.11	349.27	266.01	83.27	4.195		
10,100.00	7,730.00	10,127.75	7,870.00	49.65	44.97	113.63	-79.68	1,905.77	349.27	264.93	84.34	4.141		
10,200.00	7,730.00	10,227.75	7,870.00	49.48	44.77	113.63	-179.68	1,905.43	349.27	263.74	85.52	4.084		
10,300.00	7,730.00	10,327.75	7,870.00	49.35	44.62	113.63	-279.68	1,905.09	349.27	262.45	86.82	4.023		
10,400.00	7,730.00	10,427.75	7,870.00	49.27	44.55	113.63	-379.68	1,904.75	349.27	261.05	88.22	3.959		
10,500.00	7,730.00	10,527.75	7,870.00	49.26	44.62	113.63	-479.68	1,904.41	349.26	259.54	89.72	3.893		
10,600.00	7,730.00	10,627.75	7,870.00	49.32	44.93	113.63	-579.67	1,904.07	349.26	257.95	91.31	3.825		
10,700.00	7,730.00	10,727.75	7,870.00	49.51	45.55	113.63	-679.67	1,903.73	349.26	256.26	93.00	3.756		
10,800.00	7,730.00	10,827.75	7,870.00	49.83	46.39	113.63	-779.67	1,903.39	349.26	254.49	94.77	3.685		
10,900.00	7,730.00	10,927.75	7,870.00	50.31	47.37	113.63	-879.67	1,903.05	349.26	252.64	96.62	3.615		
11,000.00	7,730.00	11,027.75	7,870.00	50.96	48.43	113.63	-979.67	1,902.71	349.26	250.72	98.54	3.544		
11,100.00	7,730.00	11,127.75	7,870.00	51.75	49.54	113.63	-1,079.67	1,902.38	349.26	248.72	100.54	3.474		
11,200.00	7,730.00	11,227.75	7,870.00	52.66	50.69	113.63	-1,179.67	1,902.04	349.26	246.65	102.60	3.404		
11,300.00	7,730.00	11,327.75	7,870.00	53.67	51.88	113.63	-1,279.67	1,901.70	349.25	244.52	104.73	3.335		
11,400.00	7,730.00	11,427.75	7,870.00	54.75	53.10	113.63	-1,379.67	1,901.36	349.25	242.34	106.92	3.267		
11,500.00	7,730.00	11,527.75	7,870.00	55.89	54.35	113.63	-1,479.67	1,901.02	349.25	240.09	109.16	3.199		
11,600.00	7,730.00	11,627.75	7,870.00	57.07	55.63	113.63	-1,579.67	1,900.68	349.25	237.80	111.45	3.134		
11,700.00	7,730.00	11,727.75	7,870.00	58.30	56.93	113.63	-1,679.67	1,900.34	349.25	235.45	113.80	3.069		
11,800.00	7,730.00	11,827.75	7,870.00	59.55	58.25	113.63	-1,779.67	1,900.00	349.25	233.06	116.19	3.006		
11,900.00	7,730.00	11,927.75	7,870.00	60.84	59.59	113.63	-1,879.67	1,899.66	349.25	230.62	118.63	2.944		
12,000.00	7,730.00	12,027.75	7,870.00	62.15	60.95	113.63	-1,979.67	1,899.32	349.25	228.14	121.10	2.884		
12,100.00	7,730.00	12,127.75	7,870.00	63.49	62.33	113.63	-2,079.67	1,898.98	349.24	225.63	123.61	2.825		
12,200.00	7,730.00	12,227.75	7,870.00	64.85	63.72	113.63	-2,179.67	1,898.64	349.24	223.08	126.17	2.768		
12,300.00	7,730.00	12,327.75	7,870.00	66.22	65.13	113.63	-2,279.66	1,898.30	349.24	220.49	128.75	2.713		
12,400.00	7,730.00	12,427.75	7,870.00	67.62	66.56	113.63	-2,379.66	1,897.96	349.24	217.87	131.37	2.659		
12,500.00	7,730.00	12,527.75	7,870.00	69.03	68.00	113.63	-2,479.66	1,897.62	349.24	215.23	134.01	2.606		
12,600.00	7,730.00	12,627.75	7,870.00	70.45	69.45	113.63	-2,579.66	1,897.28	349.24	212.55	136.69	2.555		
12,700.00	7,730.00	12,727.75	7,870.00	71.90	70.92	113.63	-2,679.66	1,896.94	349.24	209.85	139.39	2.505		
12,800.00	7,730.00	12,827.75	7,870.00	73.35	72.39	113.63	-2,779.66	1,896.60	349.24	207.12	142.12	2.457		
12,900.00	7,730.00	12,927.75	7,870.00	74.81	73.88	113.63	-2,879.66	1,896.26	349.23	204.37	144.87	2.411		
13,000.00	7,730.00	13,027.75	7,870.00	76.29	75.38	113.63	-2,979.66	1,895.92	349.23	201.59	147.64	2.365		
13,100.00	7,730.00	13,127.75	7,870.00	77.78	76.89	113.63	-3,079.66	1,895.58	349.23	198.80	150.43	2.321		
13,200.00	7,730.00	13,227.75	7,870.00	79.28	78.41	113.63	-3,179.66	1,895.24	349.23	195.98	153.25	2.279		
13,300.00	7,730.00	13,327.75	7,870.00	80.79	79.94	113.63	-3,279.66	1,894.90	349.23	193.15	156.08	2.237		
13,400.00	7,730.00	13,427.75	7,870.00	82.31	81.47	113.63	-3,379.66	1,894.57	349.23	190.29	158.93	2.197		
13,500.00	7,730.00	13,527.75	7,870.00	83.84	83.02	113.63	-3,479.66	1,894.23	349.23	187.42	161.80	2.158		
13,600.00	7,730.00	13,627.75	7,870.00	85.37	84.57	113.63	-3,579.66	1,893.89	349.23	184.54	164.69	2.121		
13,700.00	7,730.00	13,727.75	7,870.00	86.92	86.13	113.63	-3,679.66	1,893.55	349.22	181.64	167.59	2.084		
13,800.00	7,730.00	13,827.75	7,870.00	88.47	87.70	113.63	-3,779.66	1,893.21	349.22	178.72	170.50	2.048		
13,900.00	7,730.00	13,927.75	7,870.00	90.03	89.27	113.63	-3,879.66	1,892.87	349.22	175.79	173.43	2.014		
14,000.00	7,730.00	14,027.75	7,870.00	91.59	90.85	113.63	-3,979.66	1,892.53	349.22	172.85	176.37	1.980		
14,100.00	7,730.00	14,127.75	7,870.00	93.16	92.44	113.63	-4,079.65	1,892.19	349.22	169.89	179.33	1.947		
14,200.00	7,730.00	14,227.75	7,870.00	94.74	94.03	113.63	-4,179.65	1,891.85	349.22	166.93	182.29	1.916		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	14,327.75	7,870.00	96.33	95.63	113.63	-4,279.65	1,891.51	349.22	163.95	185.27	1.885		
14,400.00	7,730.00	14,427.75	7,870.00	97.92	97.23	113.63	-4,379.65	1,891.17	349.22	160.96	188.26	1.855		
14,500.00	7,730.00	14,527.75	7,870.00	99.51	98.84	113.63	-4,479.65	1,890.83	349.21	157.96	191.25	1.826		
14,600.00	7,730.00	14,627.75	7,870.00	101.11	100.45	113.63	-4,579.65	1,890.49	349.21	154.95	194.26	1.798		
14,700.00	7,730.00	14,727.75	7,870.00	102.72	102.07	113.63	-4,679.65	1,890.15	349.21	151.93	197.28	1.770		
14,800.00	7,730.00	14,827.75	7,870.00	104.33	103.69	113.63	-4,779.65	1,889.81	349.21	148.90	200.31	1.743		
14,900.00	7,730.00	14,927.75	7,870.00	105.94	105.32	113.63	-4,879.65	1,889.47	349.21	145.87	203.34	1.717		
15,000.00	7,730.00	15,027.75	7,870.00	107.56	106.95	113.63	-4,979.65	1,889.13	349.21	142.82	206.38	1.692		
15,100.00	7,730.00	15,127.75	7,870.00	109.18	108.58	113.64	-5,079.65	1,888.79	349.21	139.77	209.43	1.667		
15,200.00	7,730.00	15,227.75	7,870.00	110.81	110.22	113.64	-5,179.65	1,888.45	349.20	136.71	212.49	1.643		
15,300.00	7,730.00	15,327.75	7,870.00	112.44	111.86	113.64	-5,279.65	1,888.11	349.20	133.65	215.56	1.620		
15,400.00	7,730.00	15,427.75	7,870.00	114.08	113.51	113.64	-5,379.65	1,887.77	349.20	130.57	218.63	1.597		
15,500.00	7,730.00	15,527.75	7,870.00	115.72	115.16	113.64	-5,479.65	1,887.43	349.20	127.49	221.71	1.575		
15,600.00	7,730.00	15,627.75	7,870.00	117.36	116.81	113.64	-5,579.65	1,887.09	349.20	124.41	224.79	1.553		
15,700.00	7,730.00	15,727.75	7,870.00	119.00	118.46	113.64	-5,679.65	1,886.76	349.20	121.32	227.88	1.532		
15,800.00	7,730.00	15,827.75	7,870.00	120.65	120.12	113.64	-5,779.64	1,886.42	349.20	118.22	230.98	1.512		
15,900.00	7,730.00	15,927.75	7,870.00	122.30	121.78	113.64	-5,879.64	1,886.08	349.20	115.12	234.08	1.492 Level 3		
16,000.00	7,730.00	16,027.75	7,870.00	123.96	123.45	113.64	-5,979.64	1,885.74	349.19	112.01	237.19	1.472 Level 3		
16,100.00	7,730.00	16,127.75	7,870.00	125.61	125.11	113.64	-6,079.64	1,885.40	349.19	108.89	240.30	1.453 Level 3		
16,200.00	7,730.00	16,227.75	7,870.00	127.27	126.78	113.64	-6,179.64	1,885.06	349.19	105.78	243.42	1.435 Level 3		
16,300.00	7,730.00	16,327.75	7,870.00	128.94	128.45	113.64	-6,279.64	1,884.72	349.19	102.65	246.54	1.416 Level 3		
16,400.00	7,730.00	16,427.75	7,870.00	130.60	130.12	113.64	-6,379.64	1,884.38	349.19	99.52	249.67	1.399 Level 3		
16,500.00	7,730.00	16,527.75	7,870.00	132.27	131.80	113.64	-6,479.64	1,884.04	349.19	96.39	252.80	1.381 Level 3		
16,600.00	7,730.00	16,627.75	7,870.00	133.94	133.48	113.64	-6,579.64	1,883.70	349.19	93.26	255.93	1.364 Level 3		
16,700.00	7,730.00	16,727.75	7,870.00	135.61	135.16	113.64	-6,679.64	1,883.36	349.19	90.11	259.07	1.348 Level 3		
16,800.00	7,730.00	16,827.75	7,870.00	137.28	136.84	113.64	-6,779.64	1,883.02	349.18	86.97	262.21	1.332 Level 3		
16,900.00	7,730.00	16,927.75	7,870.00	138.96	138.52	113.64	-6,879.64	1,882.68	349.18	83.82	265.36	1.316 Level 3		
17,000.00	7,730.00	17,027.75	7,870.00	140.64	140.21	113.64	-6,979.64	1,882.34	349.18	80.67	268.51	1.300 Level 3		
17,100.00	7,730.00	17,127.75	7,870.00	142.32	141.90	113.64	-7,079.64	1,882.00	349.18	77.51	271.67	1.285 Level 3		
17,200.00	7,730.00	17,227.75	7,870.00	144.00	143.59	113.64	-7,179.64	1,881.66	349.18	74.36	274.82	1.271 Level 3		
17,300.00	7,730.00	17,327.75	7,870.00	145.69	145.28	113.64	-7,279.64	1,881.32	349.18	71.19	277.98	1.256 Level 3		
17,400.00	7,730.00	17,427.75	7,870.00	147.37	146.97	113.64	-7,379.64	1,880.98	349.18	68.03	281.15	1.242 Level 2		
17,500.00	7,730.00	17,527.75	7,870.00	149.06	148.67	113.64	-7,479.63	1,880.64	349.18	64.86	284.32	1.228 Level 2		
17,600.00	7,730.00	17,627.75	7,870.00	150.75	150.36	113.64	-7,579.63	1,880.30	349.17	61.69	287.49	1.215 Level 2		
17,700.00	7,730.00	17,727.75	7,870.00	152.44	152.06	113.64	-7,679.63	1,879.96	349.17	58.51	290.66	1.201 Level 2		
17,800.00	7,730.00	17,827.75	7,870.00	154.13	153.76	113.64	-7,779.63	1,879.62	349.17	55.34	293.84	1.188 Level 2		
17,900.00	7,730.00	17,927.75	7,870.00	155.83	155.46	113.64	-7,879.63	1,879.28	349.17	52.16	297.01	1.176 Level 2		
18,000.00	7,730.00	18,027.75	7,870.00	157.52	157.16	113.64	-7,979.63	1,878.95	349.17	48.97	300.19	1.163 Level 2		
18,100.00	7,730.00	18,127.75	7,870.00	159.22	158.86	113.64	-8,079.63	1,878.61	349.17	45.79	303.38	1.151 Level 2		
18,200.00	7,730.00	18,227.75	7,870.00	160.92	160.57	113.64	-8,179.63	1,878.27	349.17	42.60	306.56	1.139 Level 2		
18,300.00	7,730.00	18,327.75	7,870.00	162.62	162.27	113.64	-8,279.63	1,877.93	349.17	39.41	309.75	1.127 Level 2		
18,400.00	7,730.00	18,427.75	7,870.00	164.32	163.98	113.64	-8,379.63	1,877.59	349.16	36.22	312.94	1.116 Level 2		
18,426.22	7,730.00	18,453.97	7,870.00	164.76	164.43	113.64	-8,405.85	1,877.50	349.16	35.38	313.78	1.113 Level 2, SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	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		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	10.08	10.08	6.94	3.14	3.214		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	10.08	10.08	6.23	3.85	2.616		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	10.08	10.08	5.51	4.57	2.205		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	10.08	10.08	4.79	5.29	1.906		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	10.08	10.08	4.08	6.00	1.679		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	10.08	10.08	3.36	6.72	1.500	Level 3	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.00	0.00	10.08	10.08	2.64	7.44	1.355	Level 3, CC, ES	
1,200.00	1,200.00	1,199.69	1,199.67	4.08	4.07	84.55	1.09	11.43	11.49	3.34	8.15	1.410	Level 3	
1,300.00	1,299.98	1,299.23	1,299.07	4.43	4.43	30.26	4.35	15.47	14.57	5.72	8.84	1.647		
1,400.00	1,399.84	1,398.66	1,398.12	4.79	4.78	26.35	9.77	22.18	17.87	8.35	9.53	1.876		
1,500.00	1,499.45	1,497.96	1,496.69	5.15	5.15	24.29	17.34	31.55	21.31	11.10	10.20	2.088		
1,600.00	1,598.70	1,597.15	1,594.66	5.51	5.52	23.32	27.04	43.55	24.82	13.95	10.87	2.283		
1,700.00	1,697.47	1,696.22	1,691.92	5.89	5.91	23.06	38.85	58.17	28.40	16.86	11.53	2.462		
1,800.00	1,795.62	1,795.17	1,788.37	6.28	6.33	23.26	52.74	75.37	32.02	19.83	12.20	2.626		
1,900.00	1,893.06	1,894.00	1,883.87	6.69	6.77	23.78	68.70	95.13	35.70	22.84	12.86	2.776		
2,000.00	1,989.64	1,992.72	1,978.34	7.13	7.24	24.53	86.70	117.41	39.43	25.90	13.54	2.913		
2,100.00	2,085.27	2,091.32	2,071.65	7.61	7.75	25.44	106.71	142.17	43.22	28.99	14.23	3.038		
2,200.00	2,179.82	2,189.80	2,163.71	8.12	8.30	26.47	128.70	169.39	47.06	32.12	14.94	3.150		
2,300.00	2,273.17	2,288.18	2,254.40	8.67	8.90	27.58	152.63	199.02	50.96	35.28	15.68	3.249		
2,400.00	2,365.21	2,386.44	2,343.64	9.27	9.55	28.76	178.48	231.02	54.93	38.45	16.47	3.335		
2,500.00	2,455.84	2,484.59	2,431.32	9.92	10.25	29.99	206.20	265.33	58.96	41.65	17.32	3.405		
2,580.62	2,527.80	2,563.65	2,500.80	10.49	10.85	31.00	229.89	294.66	62.27	44.22	18.05	3.451		
2,600.00	2,544.97	2,582.64	2,517.33	10.63	11.00	31.22	235.76	301.93	63.13	44.90	18.22	3.464		
2,700.00	2,633.58	2,682.33	2,603.82	11.37	11.82	32.05	266.92	340.50	68.12	48.82	19.30	3.529		
2,800.00	2,722.19	2,782.20	2,690.46	12.13	12.66	32.75	298.14	379.15	73.14	52.71	20.43	3.580		
2,900.00	2,810.80	2,882.02	2,777.09	12.91	13.52	33.37	329.36	417.80	78.17	56.58	21.59	3.621		
3,000.00	2,899.41	2,981.94	2,863.73	13.71	14.39	33.91	360.58	456.45	83.21	60.43	22.78	3.653		
3,100.00	2,988.02	3,081.81	2,950.36	14.52	15.28	34.39	391.80	495.09	88.25	64.26	23.99	3.679		
3,200.00	3,076.63	3,181.68	3,036.99	15.34	16.18	34.82	423.02	533.74	93.30	68.08	25.22	3.700		
3,300.00	3,165.24	3,281.55	3,123.63	16.16	17.09	35.20	454.24	572.39	98.35	71.89	26.47	3.716		
3,400.00	3,253.85	3,381.43	3,210.26	17.00	18.00	35.54	485.47	611.04	103.41	75.68	27.73	3.729		
3,500.00	3,342.46	3,481.30	3,296.90	17.84	18.92	35.86	516.69	649.69	108.47	79.47	29.01	3.739		
3,600.00	3,431.07	3,581.17	3,383.53	18.69	19.85	36.14	547.91	688.34	113.54	83.24	30.30	3.747		
3,700.00	3,519.68	3,681.04	3,470.17	19.55	20.78	36.41	579.13	726.99	118.60	87.01	31.60	3.753		
3,800.00	3,608.29	3,780.91	3,556.80	20.40	21.72	36.65	610.35	765.64	123.67	90.76	32.91	3.758		
3,900.00	3,696.90	3,880.78	3,643.44	21.26	22.66	36.87	641.57	804.29	128.74	94.52	34.23	3.761		
4,000.00	3,785.51	3,980.65	3,730.07	22.13	23.60	37.07	672.79	842.94	133.82	98.26	35.55	3.764		
4,100.00	3,874.12	4,080.52	3,816.71	23.00	24.55	37.26	704.01	881.58	138.89	102.00	36.89	3.765		
4,200.00	3,962.73	4,180.39	3,903.34	23.87	25.50	37.44	735.24	920.23	143.97	105.74	38.23	3.766		
4,300.00	4,051.34	4,280.26	3,989.97	24.74	26.45	37.60	766.46	958.88	149.04	109.47	39.57	3.766		
4,400.00	4,139.95	4,380.13	4,076.61	25.62	27.40	37.75	797.68	997.53	154.12	113.20	40.92	3.766		
4,500.00	4,228.56	4,480.00	4,163.24	26.49	28.35	37.90	828.90	1,036.18	159.20	116.92	42.28	3.766		
4,600.00	4,317.17	4,579.87	4,249.88	27.37	29.31	38.03	860.12	1,074.83	164.28	120.65	43.64	3.765		
4,700.00	4,405.78	4,679.74	4,336.51	28.25	30.27	38.16	891.34	1,113.48	169.36	124.36	45.00	3.764		
4,800.00	4,494.39	4,779.61	4,423.15	29.13	31.23	38.28	922.56	1,152.13	174.45	128.08	46.37	3.762		
4,900.00	4,583.00	4,879.48	4,509.78	30.02	32.19	38.39	953.78	1,190.78	179.53	131.79	47.74	3.761		
5,000.00	4,671.61	4,979.35	4,596.42	30.90	33.15	38.50	985.01	1,229.43	184.61	135.50	49.11	3.759		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,079.22	4,683.05	31.79	34.11	38.60	1,016.23	1,268.08	189.70	139.21	50.48	3.757		
5,200.00	4,848.83	5,179.09	4,769.68	32.67	35.08	38.69	1,047.45	1,306.72	194.78	142.92	51.86	3.756		
5,300.00	4,937.44	5,278.96	4,856.32	33.56	36.04	38.78	1,078.67	1,345.37	199.86	146.62	53.24	3.754		
5,400.00	5,026.05	5,378.83	4,942.95	34.45	37.01	38.87	1,109.89	1,384.02	204.95	150.32	54.63	3.752		
5,500.00	5,114.66	5,478.70	5,029.59	35.34	37.97	38.95	1,141.11	1,422.67	210.04	154.03	56.01	3.750		
5,600.00	5,203.27	5,578.57	5,116.22	36.23	38.94	39.03	1,172.33	1,461.32	215.12	157.73	57.40	3.748		
5,700.00	5,291.88	5,678.44	5,202.86	37.12	39.91	39.10	1,203.56	1,499.97	220.21	161.43	58.78	3.746		
5,800.00	5,380.50	5,778.31	5,289.49	38.01	40.88	39.17	1,234.78	1,538.62	225.30	165.12	60.17	3.744		
5,900.00	5,469.11	5,878.18	5,376.13	38.90	41.85	39.24	1,266.00	1,577.27	230.38	168.82	61.56	3.742		
6,000.00	5,557.72	5,978.05	5,462.76	39.79	42.81	39.30	1,297.22	1,615.92	235.47	172.51	62.96	3.740		
6,100.00	5,646.33	6,077.92	5,549.39	40.68	43.78	39.37	1,328.44	1,654.57	240.56	176.21	64.35	3.738		
6,200.00	5,734.94	6,177.79	5,636.03	41.58	44.75	39.43	1,359.66	1,693.21	245.65	179.90	65.75	3.736		
6,300.00	5,823.55	6,277.66	5,722.66	42.47	45.73	39.48	1,390.88	1,731.86	250.73	183.59	67.14	3.734		
6,400.00	5,912.16	6,377.53	5,809.30	43.36	46.70	39.54	1,422.10	1,770.51	255.82	187.28	68.54	3.733		
6,500.00	6,000.77	6,477.40	5,895.93	44.26	47.67	39.59	1,453.33	1,809.16	260.91	190.98	69.94	3.731		
6,600.00	6,089.38	6,577.27	5,982.57	45.15	48.64	39.64	1,484.55	1,847.81	266.00	194.67	71.34	3.729		
6,700.00	6,177.99	6,677.14	6,069.20	46.05	49.61	39.69	1,515.77	1,886.46	271.09	198.35	72.74	3.727		
6,800.00	6,266.60	6,777.01	6,155.84	46.94	50.58	39.74	1,546.99	1,925.11	276.18	202.04	74.14	3.725		
6,900.00	6,355.21	6,876.88	6,242.47	47.84	51.56	39.78	1,578.21	1,963.76	281.27	205.73	75.54	3.723		
7,000.00	6,443.82	6,976.75	6,329.10	48.74	52.53	39.83	1,609.43	2,002.41	286.36	209.42	76.94	3.722		
7,100.00	6,532.43	7,076.62	6,415.74	49.63	53.50	39.87	1,640.65	2,041.06	291.45	213.10	78.35	3.720		
7,200.00	6,621.04	7,176.49	6,502.37	50.53	54.48	39.91	1,671.87	2,079.71	296.54	216.79	79.75	3.718		
7,300.00	6,709.65	7,276.36	6,589.01	51.42	55.45	39.95	1,703.10	2,118.35	301.63	220.48	81.15	3.717		
7,400.00	6,798.26	7,376.23	6,675.64	52.32	56.42	39.99	1,734.32	2,157.00	306.72	224.16	82.56	3.715		
7,500.00	6,886.87	7,476.10	6,762.28	53.22	57.40	40.02	1,765.54	2,195.65	311.81	227.85	83.97	3.714		
7,600.00	6,975.48	7,575.97	6,848.91	54.12	58.37	40.06	1,796.76	2,234.30	316.90	231.53	85.37	3.712		
7,656.30	7,025.36	7,632.19	6,897.68	54.62	58.92	40.08	1,814.34	2,256.06	319.77	233.60	86.16	3.711		
7,700.00	7,064.54	7,675.80	6,935.51	55.00	59.35	32.87	1,827.97	2,272.94	321.98	235.47	86.51	3.722		
7,750.00	7,110.29	7,725.26	6,978.82	55.40	59.81	22.32	1,841.97	2,292.25	324.55	238.11	86.44	3.755		
7,800.00	7,156.67	7,775.01	7,023.33	55.75	60.25	9.93	1,851.93	2,312.09	327.21	240.93	86.28	3.792		
7,850.00	7,203.34	7,825.14	7,068.81	56.05	60.65	-3.52	1,857.66	2,332.34	329.95	243.89	86.06	3.834		
7,900.00	7,249.95	7,875.66	7,114.94	56.30	61.01	-16.69	1,859.00	2,352.87	332.74	246.96	85.79	3.879		
7,950.00	7,296.14	7,926.59	7,161.36	56.50	61.31	-28.41	1,855.85	2,373.51	335.57	250.08	85.49	3.925		
8,000.00	7,341.56	7,977.91	7,207.71	56.64	61.57	-38.15	1,848.13	2,394.11	338.39	253.22	85.17	3.973		
8,050.00	7,385.86	8,029.64	7,253.61	56.74	61.77	-45.95	1,835.79	2,414.48	341.19	256.32	84.86	4.020		
8,100.00	7,428.71	8,081.76	7,298.64	56.79	61.92	-52.11	1,818.82	2,434.46	343.94	259.37	84.57	4.067		
8,150.00	7,469.77	8,134.28	7,342.41	56.80	62.02	-56.98	1,797.27	2,453.86	346.61	262.30	84.31	4.111		
8,200.00	7,508.75	8,187.17	7,384.48	56.77	62.06	-60.86	1,771.23	2,472.49	349.17	265.10	84.07	4.153		
8,250.00	7,545.33	8,240.43	7,424.45	56.70	62.06	-63.96	1,740.84	2,490.17	351.60	267.72	83.88	4.192		
8,300.00	7,579.25	8,294.01	7,461.90	56.59	62.02	-66.46	1,706.29	2,506.72	353.87	270.15	83.72	4.227		
8,350.00	7,610.24	8,347.91	7,496.43	56.45	61.93	-68.47	1,667.85	2,521.95	355.95	272.34	83.61	4.257		
8,400.00	7,638.06	8,402.08	7,527.67	56.28	61.80	-70.08	1,625.80	2,535.71	357.82	274.28	83.54	4.283		
8,450.00	7,662.52	8,456.49	7,555.25	56.09	61.64	-71.36	1,580.52	2,547.83	359.46	275.95	83.51	4.304		
8,500.00	7,683.41	8,511.10	7,578.87	55.88	61.44	-72.36	1,532.41	2,558.17	360.85	277.33	83.53	4.320		
8,550.00	7,700.59	8,565.85	7,598.24	55.64	61.22	-73.11	1,481.92	2,566.62	361.98	278.40	83.58	4.331		
8,600.00	7,713.91	8,620.72	7,613.16	55.39	60.98	-73.63	1,429.54	2,573.08	362.83	279.17	83.66	4.337		
8,650.00	7,723.29	8,675.63	7,623.44	55.14	60.72	-73.95	1,375.80	2,577.48	363.40	279.64	83.76	4.338		
8,700.00	7,728.64	8,730.55	7,628.97	54.87	60.45	-74.07	1,321.22	2,579.75	363.68	279.80	83.88	4.336		
8,740.83	7,730.00	8,774.58	7,630.00	54.65	60.23	-74.04	1,277.22	2,580.06	363.70	279.82	83.88	4.336		
8,800.00	7,730.00	8,833.75	7,630.00	54.33	59.93	-74.04	1,218.05	2,579.86	363.70	280.27	83.43	4.360		
8,900.00	7,730.00	8,933.75	7,630.00	53.82	59.45	-74.04	1,118.05	2,579.53	363.70	280.95	82.75	4.395		
9,000.00	7,730.00	9,033.75	7,630.00	53.33	59.00	-74.04	1,018.05	2,579.19	363.71	281.49	82.22	4.424		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	9,133.75	7,630.00	52.87	58.57	-74.04	918.05	2,578.85	363.71	281.89	81.83	4.445		
9,200.00	7,730.00	9,233.75	7,630.00	52.44	58.16	-74.04	818.05	2,578.52	363.72	282.14	81.58	4.459		
9,300.00	7,730.00	9,333.75	7,630.00	52.03	57.78	-74.04	718.05	2,578.18	363.72	282.25	81.47	4.465		
9,400.00	7,730.00	9,433.75	7,630.00	51.65	57.42	-74.04	618.06	2,577.85	363.73	282.22	81.50	4.463		
9,500.00	7,730.00	9,533.75	7,630.00	51.29	57.08	-74.04	518.06	2,577.51	363.73	282.05	81.68	4.453		
9,600.00	7,730.00	9,633.75	7,630.00	50.95	56.77	-74.04	418.06	2,577.17	363.73	281.73	82.01	4.435		
9,700.00	7,730.00	9,733.75	7,630.00	50.64	56.48	-74.04	318.06	2,576.84	363.74	281.27	82.47	4.411		
9,800.00	7,730.00	9,833.75	7,630.00	50.35	56.21	-74.04	218.06	2,576.50	363.74	280.67	83.07	4.379		
9,900.00	7,730.00	9,933.75	7,630.00	50.09	55.97	-74.04	118.06	2,576.16	363.75	279.94	83.81	4.340		
10,000.00	7,730.00	10,033.75	7,630.00	49.86	55.75	-74.04	18.06	2,575.83	363.75	279.07	84.68	4.296		
10,100.00	7,730.00	10,133.75	7,630.00	49.65	55.56	-74.04	-81.94	2,575.49	363.76	278.08	85.68	4.246		
10,200.00	7,730.00	10,233.75	7,630.00	49.48	55.40	-74.04	-181.94	2,575.15	363.76	276.96	86.80	4.191		
10,300.00	7,730.00	10,333.75	7,630.00	49.35	55.28	-74.04	-281.94	2,574.82	363.77	275.72	88.04	4.132		
10,400.00	7,730.00	10,433.75	7,630.00	49.27	55.19	-74.04	-381.94	2,574.48	363.77	274.37	89.40	4.069		
10,500.00	7,730.00	10,533.75	7,630.00	49.26	55.14	-74.04	-481.94	2,574.15	363.77	272.91	90.86	4.003		
10,600.00	7,730.00	10,633.75	7,630.00	49.32	55.14	-74.04	-581.94	2,573.81	363.78	271.34	92.43	3.936		
10,700.00	7,730.00	10,733.75	7,630.00	49.51	55.20	-74.04	-681.94	2,573.47	363.78	269.68	94.10	3.866		
10,800.00	7,730.00	10,833.75	7,630.00	49.83	55.33	-74.04	-781.94	2,573.14	363.79	267.92	95.86	3.795		
10,900.00	7,730.00	10,933.75	7,630.00	50.31	55.55	-74.04	-881.94	2,572.80	363.79	266.08	97.71	3.723		
11,000.00	7,730.00	11,033.75	7,630.00	50.96	55.85	-74.05	-981.94	2,572.46	363.80	264.15	99.65	3.651		
11,100.00	7,730.00	11,133.75	7,630.00	51.75	56.26	-74.05	-1,081.93	2,572.13	363.80	262.14	101.66	3.579		
11,200.00	7,730.00	11,233.75	7,630.00	52.66	56.78	-74.05	-1,181.93	2,571.79	363.80	260.06	103.74	3.507		
11,300.00	7,730.00	11,333.75	7,630.00	53.67	57.42	-74.05	-1,281.93	2,571.45	363.81	257.91	105.90	3.435		
11,400.00	7,730.00	11,433.75	7,630.00	54.75	58.17	-74.05	-1,381.93	2,571.12	363.81	255.69	108.12	3.365		
11,500.00	7,730.00	11,533.75	7,630.00	55.89	59.01	-74.05	-1,481.93	2,570.78	363.82	253.41	110.40	3.295		
11,600.00	7,730.00	11,633.75	7,630.00	57.07	59.95	-74.05	-1,581.93	2,570.44	363.82	251.08	112.74	3.227		
11,700.00	7,730.00	11,733.75	7,630.00	58.30	60.96	-74.05	-1,681.93	2,570.11	363.83	248.69	115.14	3.160		
11,800.00	7,730.00	11,833.75	7,630.00	59.55	62.04	-74.05	-1,781.93	2,569.77	363.83	246.24	117.59	3.094		
11,900.00	7,730.00	11,933.75	7,630.00	60.84	63.17	-74.05	-1,881.93	2,569.44	363.83	243.75	120.08	3.030		
12,000.00	7,730.00	12,033.75	7,630.00	62.15	64.35	-74.05	-1,981.93	2,569.10	363.84	241.22	122.62	2.967		
12,100.00	7,730.00	12,133.75	7,630.00	63.49	65.58	-74.05	-2,081.93	2,568.76	363.84	238.64	125.20	2.906		
12,200.00	7,730.00	12,233.75	7,630.00	64.85	66.83	-74.05	-2,181.93	2,568.43	363.85	236.03	127.82	2.847		
12,300.00	7,730.00	12,333.75	7,630.00	66.22	68.12	-74.05	-2,281.93	2,568.09	363.85	233.37	130.48	2.789		
12,400.00	7,730.00	12,433.75	7,630.00	67.62	69.44	-74.05	-2,381.93	2,567.75	363.86	230.68	133.17	2.732		
12,500.00	7,730.00	12,533.75	7,630.00	69.03	70.78	-74.05	-2,481.93	2,567.42	363.86	227.96	135.90	2.677		
12,600.00	7,730.00	12,633.75	7,630.00	70.45	72.14	-74.05	-2,581.93	2,567.08	363.87	225.21	138.66	2.624		
12,700.00	7,730.00	12,733.75	7,630.00	71.90	73.53	-74.05	-2,681.93	2,566.74	363.87	222.42	141.45	2.573		
12,800.00	7,730.00	12,833.75	7,630.00	73.35	74.93	-74.05	-2,781.93	2,566.41	363.87	219.61	144.26	2.522		
12,900.00	7,730.00	12,933.75	7,630.00	74.81	76.35	-74.05	-2,881.92	2,566.07	363.88	216.78	147.10	2.474		
13,000.00	7,730.00	13,033.75	7,630.00	76.29	77.78	-74.05	-2,981.92	2,565.74	363.88	213.92	149.97	2.426		
13,100.00	7,730.00	13,133.75	7,630.00	77.78	79.23	-74.05	-3,081.92	2,565.40	363.89	211.03	152.85	2.381		
13,200.00	7,730.00	13,233.75	7,630.00	79.28	80.69	-74.05	-3,181.92	2,565.06	363.89	208.13	155.76	2.336		
13,300.00	7,730.00	13,333.75	7,630.00	80.79	82.16	-74.05	-3,281.92	2,564.73	363.90	205.20	158.69	2.293		
13,400.00	7,730.00	13,433.75	7,630.00	82.31	83.65	-74.05	-3,381.92	2,564.39	363.90	202.26	161.64	2.251		
13,500.00	7,730.00	13,533.75	7,630.00	83.84	85.14	-74.05	-3,481.92	2,564.05	363.90	199.29	164.61	2.211		
13,600.00	7,730.00	13,633.75	7,630.00	85.37	86.65	-74.05	-3,581.92	2,563.72	363.91	196.31	167.60	2.171		
13,700.00	7,730.00	13,733.75	7,630.00	86.92	88.16	-74.05	-3,681.92	2,563.38	363.91	193.31	170.60	2.133		
13,800.00	7,730.00	13,833.75	7,630.00	88.47	89.68	-74.05	-3,781.92	2,563.04	363.92	190.30	173.62	2.096		
13,900.00	7,730.00	13,933.75	7,630.00	90.03	91.22	-74.05	-3,881.92	2,562.71	363.92	187.27	176.65	2.060		
14,000.00	7,730.00	14,033.75	7,630.00	91.59	92.76	-74.05	-3,981.92	2,562.37	363.93	184.23	179.70	2.025		
14,100.00	7,730.00	14,133.75	7,630.00	93.16	94.31	-74.05	-4,081.92	2,562.03	363.93	181.17	182.76	1.991		
14,200.00	7,730.00	14,233.75	7,630.00	94.74	95.86	-74.05	-4,181.92	2,561.70	363.94	178.10	185.83	1.958		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	14,333.75	7,630.00	96.33	97.42	-74.05	-4,281.92	2,561.36	363.94	175.02	188.92	1.926		
14,400.00	7,730.00	14,433.75	7,630.00	97.92	98.99	-74.05	-4,381.92	2,561.03	363.94	171.93	192.02	1.895		
14,500.00	7,730.00	14,533.75	7,630.00	99.51	100.56	-74.05	-4,481.92	2,560.69	363.95	168.82	195.12	1.865		
14,600.00	7,730.00	14,633.75	7,630.00	101.11	102.15	-74.05	-4,581.92	2,560.35	363.95	165.71	198.24	1.836		
14,700.00	7,730.00	14,733.75	7,630.00	102.72	103.73	-74.05	-4,681.91	2,560.02	363.96	162.58	201.37	1.807		
14,800.00	7,730.00	14,833.75	7,630.00	104.33	105.32	-74.05	-4,781.91	2,559.68	363.96	159.45	204.51	1.780		
14,900.00	7,730.00	14,933.75	7,630.00	105.94	106.92	-74.05	-4,881.91	2,559.34	363.97	156.31	207.66	1.753		
15,000.00	7,730.00	15,033.75	7,630.00	107.56	108.52	-74.05	-4,981.91	2,559.01	363.97	153.16	210.81	1.727		
15,100.00	7,730.00	15,133.75	7,630.00	109.18	110.13	-74.05	-5,081.91	2,558.67	363.97	150.00	213.98	1.701		
15,200.00	7,730.00	15,233.75	7,630.00	110.81	111.74	-74.05	-5,181.91	2,558.33	363.98	146.83	217.15	1.676		
15,300.00	7,730.00	15,333.75	7,630.00	112.44	113.35	-74.05	-5,281.91	2,558.00	363.98	143.65	220.33	1.652		
15,400.00	7,730.00	15,433.75	7,630.00	114.08	114.97	-74.05	-5,381.91	2,557.66	363.99	140.47	223.52	1.628		
15,500.00	7,730.00	15,533.75	7,630.00	115.72	116.59	-74.05	-5,481.91	2,557.32	363.99	137.28	226.71	1.606		
15,600.00	7,730.00	15,633.75	7,630.00	117.36	118.22	-74.05	-5,581.91	2,556.99	364.00	134.08	229.91	1.583		
15,700.00	7,730.00	15,733.75	7,630.00	119.00	119.85	-74.05	-5,681.91	2,556.65	364.00	130.88	233.12	1.561		
15,800.00	7,730.00	15,833.75	7,630.00	120.65	121.49	-74.05	-5,781.91	2,556.32	364.00	127.67	236.33	1.540		
15,900.00	7,730.00	15,933.75	7,630.00	122.30	123.12	-74.05	-5,881.91	2,555.98	364.01	124.46	239.55	1.520		
16,000.00	7,730.00	16,033.75	7,630.00	123.96	124.77	-74.05	-5,981.91	2,555.64	364.01	121.24	242.78	1.499 Level 3		
16,100.00	7,730.00	16,133.75	7,630.00	125.61	126.41	-74.06	-6,081.91	2,555.31	364.02	118.01	246.01	1.480 Level 3		
16,200.00	7,730.00	16,233.75	7,630.00	127.27	128.06	-74.06	-6,181.91	2,554.97	364.02	114.78	249.24	1.461 Level 3		
16,300.00	7,730.00	16,333.75	7,630.00	128.94	129.71	-74.06	-6,281.91	2,554.63	364.03	111.54	252.49	1.442 Level 3		
16,400.00	7,730.00	16,433.75	7,630.00	130.60	131.36	-74.06	-6,381.91	2,554.30	364.03	108.30	255.73	1.423 Level 3		
16,500.00	7,730.00	16,533.75	7,630.00	132.27	133.01	-74.06	-6,481.90	2,553.96	364.04	105.05	258.98	1.406 Level 3		
16,600.00	7,730.00	16,633.75	7,630.00	133.94	134.67	-74.06	-6,581.90	2,553.62	364.04	101.80	262.24	1.388 Level 3		
16,700.00	7,730.00	16,733.75	7,630.00	135.61	136.33	-74.06	-6,681.90	2,553.29	364.04	98.55	265.50	1.371 Level 3		
16,800.00	7,730.00	16,833.75	7,630.00	137.28	138.00	-74.06	-6,781.90	2,552.95	364.05	95.29	268.76	1.355 Level 3		
16,900.00	7,730.00	16,933.75	7,630.00	138.96	139.66	-74.06	-6,881.90	2,552.62	364.05	92.03	272.03	1.338 Level 3		
17,000.00	7,730.00	17,033.75	7,630.00	140.64	141.33	-74.06	-6,981.90	2,552.28	364.06	88.76	275.30	1.322 Level 3		
17,100.00	7,730.00	17,133.75	7,630.00	142.32	143.00	-74.06	-7,081.90	2,551.94	364.06	85.49	278.57	1.307 Level 3		
17,200.00	7,730.00	17,233.75	7,630.00	144.00	144.67	-74.06	-7,181.90	2,551.61	364.07	82.22	281.85	1.292 Level 3		
17,300.00	7,730.00	17,333.75	7,630.00	145.69	146.35	-74.06	-7,281.90	2,551.27	364.07	78.94	285.13	1.277 Level 3		
17,400.00	7,730.00	17,433.75	7,630.00	147.37	148.02	-74.06	-7,381.90	2,550.93	364.07	75.66	288.42	1.262 Level 3		
17,500.00	7,730.00	17,533.75	7,630.00	149.06	149.70	-74.06	-7,481.90	2,550.60	364.08	72.37	291.71	1.248 Level 2		
17,600.00	7,730.00	17,633.75	7,630.00	150.75	151.38	-74.06	-7,581.90	2,550.26	364.08	69.09	295.00	1.234 Level 2		
17,700.00	7,730.00	17,733.75	7,630.00	152.44	153.06	-74.06	-7,681.90	2,549.92	364.09	65.79	298.29	1.221 Level 2		
17,800.00	7,730.00	17,833.75	7,630.00	154.13	154.74	-74.06	-7,781.90	2,549.59	364.09	62.50	301.59	1.207 Level 2		
17,900.00	7,730.00	17,933.75	7,630.00	155.83	156.43	-74.06	-7,881.90	2,549.25	364.10	59.20	304.89	1.194 Level 2		
18,000.00	7,730.00	18,033.75	7,630.00	157.52	158.12	-74.06	-7,981.90	2,548.91	364.10	55.91	308.19	1.181 Level 2		
18,100.00	7,730.00	18,133.75	7,630.00	159.22	159.81	-74.06	-8,081.90	2,548.58	364.11	52.60	311.50	1.169 Level 2		
18,200.00	7,730.00	18,233.75	7,630.00	160.92	161.50	-74.06	-8,181.89	2,548.24	364.11	49.30	314.81	1.157 Level 2		
18,300.00	7,730.00	18,333.75	7,630.00	162.62	163.19	-74.06	-8,281.89	2,547.91	364.11	45.99	318.12	1.145 Level 2		
18,400.00	7,730.00	18,433.75	7,630.00	164.32	164.88	-74.06	-8,381.89	2,547.57	364.12	42.68	321.43	1.133 Level 2		
18,426.22	7,730.00	18,459.97	7,630.00	164.76	165.32	-74.06	-8,408.11	2,547.48	364.12	41.82	322.30	1.130 Level 2, SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	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		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	20.16	20.16	17.74	2.42	8.332		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	20.16	20.16	17.02	3.14	6.427		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	20.16	20.16	16.31	3.85	5.232		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	20.16	20.16	15.59	4.57	4.411		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	20.16	20.16	14.87	5.29	3.813		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	20.16	20.16	14.16	6.00	3.358		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.00	0.00	20.16	20.16	13.44	6.72	2.999 CC, ES		
1,100.00	1,100.00	1,099.39	1,099.37	3.72	3.71	87.35	1.00	21.57	21.60	14.17	7.43	2.907		
1,200.00	1,200.00	1,198.54	1,198.38	4.08	4.07	81.22	3.98	25.77	26.12	17.99	8.13	3.214		
1,300.00	1,299.98	1,297.37	1,296.84	4.43	4.42	28.97	8.93	32.73	32.54	23.73	8.81	3.692		
1,400.00	1,399.84	1,395.97	1,394.71	4.79	4.78	26.18	15.82	42.44	39.27	29.78	9.49	4.139		
1,500.00	1,499.45	1,494.33	1,491.88	5.15	5.15	24.74	24.63	54.85	46.16	36.01	10.15	4.547		
1,600.00	1,598.70	1,592.46	1,588.24	5.51	5.54	24.13	35.34	69.93	53.18	42.37	10.81	4.919		
1,700.00	1,697.47	1,690.35	1,683.69	5.89	5.96	24.07	47.93	87.65	60.28	48.82	11.47	5.258		
1,800.00	1,795.62	1,788.01	1,778.11	6.28	6.40	24.38	62.35	107.97	67.47	55.35	12.12	5.567		
1,900.00	1,893.06	1,885.43	1,871.40	6.69	6.87	24.94	78.59	130.84	74.74	61.96	12.78	5.849		
2,000.00	1,989.64	1,982.63	1,963.47	7.13	7.38	25.70	96.62	156.22	82.10	68.65	13.45	6.105		
2,100.00	2,085.27	2,079.59	2,054.22	7.61	7.93	26.59	116.39	184.07	89.54	75.40	14.13	6.335		
2,200.00	2,179.82	2,176.33	2,143.56	8.12	8.52	27.57	137.88	214.32	97.07	82.22	14.85	6.539		
2,300.00	2,273.17	2,272.85	2,231.39	8.67	9.17	28.63	161.04	246.95	104.70	89.11	15.59	6.716		
2,400.00	2,365.21	2,369.15	2,317.62	9.27	9.86	29.75	185.85	281.88	112.44	96.06	16.38	6.864		
2,500.00	2,455.84	2,465.24	2,402.18	9.92	10.61	30.90	212.26	319.07	120.29	103.06	17.23	6.982		
2,580.62	2,527.80	2,543.48	2,469.93	10.49	11.26	31.87	234.92	350.98	126.61	108.62	18.00	7.035		
2,600.00	2,544.97	2,562.79	2,486.60	10.63	11.43	32.16	240.58	358.95	128.03	109.81	18.22	7.028		
2,700.00	2,633.58	2,662.48	2,572.58	11.37	12.29	33.52	269.77	400.06	135.35	115.98	19.37	6.987		
2,800.00	2,722.19	2,762.16	2,658.57	12.13	13.18	34.74	298.96	441.17	142.75	122.17	20.57	6.938		
2,900.00	2,810.80	2,861.84	2,744.56	12.91	14.08	35.84	328.15	482.28	150.20	128.38	21.82	6.884		
3,000.00	2,899.41	2,961.52	2,830.55	13.71	14.99	36.84	357.35	523.39	157.71	134.61	23.10	6.827		
3,100.00	2,988.02	3,061.21	2,916.54	14.52	15.92	37.74	386.54	564.50	165.25	140.84	24.42	6.768		
3,200.00	3,076.63	3,160.89	3,002.53	15.34	16.85	38.57	415.73	605.61	172.84	147.08	25.76	6.710		
3,300.00	3,165.24	3,260.57	3,088.52	16.16	17.80	39.33	444.93	646.72	180.46	153.33	27.13	6.652		
3,400.00	3,253.85	3,360.25	3,174.51	17.00	18.75	40.02	474.12	687.83	188.10	159.58	28.52	6.595		
3,500.00	3,342.46	3,459.93	3,260.50	17.84	19.70	40.66	503.31	728.94	195.77	165.84	29.93	6.540		
3,600.00	3,431.07	3,559.62	3,346.49	18.69	20.66	41.26	532.51	770.06	203.47	172.11	31.36	6.488		
3,700.00	3,519.68	3,659.30	3,432.48	19.55	21.63	41.80	561.70	811.17	211.18	178.38	32.81	6.437		
3,800.00	3,608.29	3,758.98	3,518.47	20.40	22.59	42.32	590.89	852.28	218.92	184.65	34.27	6.389		
3,900.00	3,696.90	3,858.66	3,604.46	21.26	23.57	42.79	620.08	893.39	226.66	190.93	35.74	6.343		
4,000.00	3,785.51	3,958.35	3,690.45	22.13	24.54	43.24	649.28	934.50	234.43	197.21	37.22	6.299		
4,100.00	3,874.12	4,058.03	3,776.44	23.00	25.52	43.65	678.47	975.61	242.20	203.49	38.71	6.257		
4,200.00	3,962.73	4,157.71	3,862.43	23.87	26.50	44.04	707.66	1,016.72	249.99	209.78	40.21	6.217		
4,300.00	4,051.34	4,257.39	3,948.42	24.74	27.48	44.41	736.86	1,057.83	257.79	216.07	41.72	6.179		
4,400.00	4,139.95	4,357.07	4,034.41	25.62	28.46	44.75	766.05	1,098.94	265.60	222.36	43.24	6.143		
4,500.00	4,228.56	4,456.76	4,120.40	26.49	29.44	45.08	795.24	1,140.05	273.42	228.66	44.76	6.109		
4,600.00	4,317.17	4,556.44	4,206.39	27.37	30.43	45.39	824.44	1,181.16	281.24	234.95	46.29	6.076		
4,700.00	4,405.78	4,656.12	4,292.38	28.25	31.42	45.68	853.63	1,222.27	289.08	241.25	47.82	6.045		
4,800.00	4,494.39	4,755.80	4,378.37	29.13	32.40	45.95	882.82	1,263.38	296.92	247.56	49.36	6.015		
4,900.00	4,583.00	4,855.49	4,464.36	30.02	33.39	46.21	912.01	1,304.50	304.76	253.86	50.90	5.987		
5,000.00	4,671.61	4,955.17	4,550.35	30.90	34.38	46.46	941.21	1,345.61	312.62	260.16	52.45	5.960		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,054.85	4,636.34	31.79	35.37	46.70	970.40	1,386.72	320.47	266.47	54.00	5.934		
5,200.00	4,848.83	5,154.53	4,722.33	32.67	36.37	46.92	999.59	1,427.83	328.34	272.78	55.56	5.910		
5,300.00	4,937.44	5,254.22	4,808.32	33.56	37.36	47.13	1,028.79	1,468.94	336.21	279.09	57.12	5.886		
5,400.00	5,026.05	5,353.90	4,894.31	34.45	38.35	47.34	1,057.98	1,510.05	344.08	285.40	58.68	5.864		
5,500.00	5,114.66	5,453.58	4,980.30	35.34	39.35	47.53	1,087.17	1,551.16	351.96	291.71	60.25	5.842		
5,600.00	5,203.27	5,553.26	5,066.29	36.23	40.34	47.72	1,116.37	1,592.27	359.84	298.02	61.81	5.821		
5,700.00	5,291.88	5,652.94	5,152.28	37.12	41.34	47.90	1,145.56	1,633.38	367.72	304.34	63.38	5.802		
5,800.00	5,380.50	5,752.63	5,238.27	38.01	42.33	48.07	1,174.75	1,674.49	375.61	310.65	64.95	5.783		
5,900.00	5,469.11	5,852.31	5,324.26	38.90	43.33	48.23	1,203.94	1,715.60	383.50	316.97	66.53	5.764		
6,000.00	5,557.72	5,951.99	5,410.25	39.79	44.33	48.39	1,233.14	1,756.71	391.39	323.29	68.10	5.747		
6,100.00	5,646.33	6,051.67	5,496.24	40.68	45.32	48.54	1,262.33	1,797.82	399.29	329.61	69.68	5.730		
6,200.00	5,734.94	6,151.36	5,582.23	41.58	46.32	48.69	1,291.52	1,838.93	407.19	335.93	71.26	5.714		
6,300.00	5,823.55	6,251.04	5,668.22	42.47	47.32	48.83	1,320.72	1,880.05	415.09	342.25	72.84	5.698		
6,400.00	5,912.16	6,350.72	5,754.20	43.36	48.32	48.96	1,349.91	1,921.16	423.00	348.57	74.43	5.683		
6,500.00	6,000.77	6,450.40	5,840.19	44.26	49.32	49.09	1,379.10	1,962.27	430.90	354.89	76.01	5.669		
6,600.00	6,089.38	6,550.09	5,926.18	45.15	50.32	49.22	1,408.30	2,003.38	438.81	361.22	77.60	5.655		
6,700.00	6,177.99	6,649.77	6,012.17	46.05	51.32	49.34	1,437.49	2,044.49	446.72	367.54	79.18	5.642		
6,800.00	6,266.60	6,749.45	6,098.16	46.94	52.31	49.45	1,466.68	2,085.60	454.64	373.87	80.77	5.629		
6,900.00	6,355.21	6,849.13	6,184.15	47.84	53.31	49.57	1,495.87	2,126.71	462.55	380.19	82.36	5.616		
7,000.00	6,443.82	6,948.81	6,270.14	48.74	54.31	49.67	1,525.07	2,167.82	470.47	386.52	83.95	5.604		
7,100.00	6,532.43	7,048.50	6,356.13	49.63	55.32	49.78	1,554.26	2,208.93	478.38	392.84	85.54	5.592		
7,200.00	6,621.04	7,148.18	6,442.12	50.53	56.32	49.88	1,583.45	2,250.04	486.30	399.17	87.13	5.581		
7,300.00	6,709.65	7,247.86	6,528.11	51.42	57.32	49.98	1,612.65	2,291.15	494.22	405.50	88.73	5.570		
7,400.00	6,798.26	7,347.54	6,614.10	52.32	58.32	50.07	1,641.84	2,332.26	502.15	411.83	90.32	5.560		
7,500.00	6,886.87	7,447.23	6,700.09	53.22	59.32	50.17	1,671.03	2,373.37	510.07	418.15	91.92	5.549		
7,600.00	6,975.48	7,546.91	6,786.08	54.12	60.32	50.26	1,700.23	2,414.49	518.00	424.48	93.51	5.539		
7,656.30	7,025.36	7,603.02	6,834.49	54.62	60.88	50.30	1,716.66	2,437.63	522.46	428.05	94.41	5.534		
7,700.00	7,064.54	7,646.59	6,872.07	55.00	61.32	43.32	1,729.42	2,455.59	525.61	430.67	94.94	5.536		
7,750.00	7,110.29	7,703.81	6,914.86	55.40	61.90	32.98	1,743.94	2,476.05	528.48	433.30	95.18	5.552		
7,800.00	7,156.67	7,745.18	6,957.12	55.75	62.31	20.27	1,758.29	2,496.25	530.68	435.83	94.85	5.595		
7,850.00	7,203.34	7,806.82	6,998.53	56.05	62.93	6.06	1,772.35	2,516.05	532.40	438.21	94.19	5.652		
7,900.00	7,249.95	7,839.84	7,038.78	56.30	63.26	-8.28	1,786.01	2,535.30	533.97	441.11	92.86	5.750		
7,950.00	7,296.14	7,884.79	7,077.55	56.50	63.72	-21.47	1,799.18	2,553.83	535.76	444.61	91.15	5.878		
8,000.00	7,341.56	7,927.70	7,114.57	56.64	64.15	-32.87	1,811.74	2,571.53	538.23	449.23	89.00	6.048		
8,050.00	7,385.86	7,968.23	7,149.53	56.74	64.55	-42.40	1,823.61	2,588.25	541.87	455.40	86.47	6.267		
8,100.00	7,428.71	8,006.08	7,182.18	56.79	64.93	-50.24	1,834.70	2,603.86	547.20	463.54	83.66	6.541		
8,150.00	7,469.77	8,043.13	7,214.20	56.80	65.30	-56.76	1,845.35	2,619.16	554.67	473.89	80.79	6.866		
8,200.00	7,508.75	8,084.16	7,250.20	56.77	65.70	-62.42	1,854.86	2,636.36	564.34	486.12	78.23	7.214		
8,250.00	7,545.33	8,128.00	7,289.24	56.70	66.09	-67.32	1,861.85	2,655.01	576.11	500.00	76.11	7.570		
8,300.00	7,579.25	8,175.51	7,331.97	56.59	66.48	-71.66	1,865.67	2,675.40	589.85	515.38	74.47	7.921		
8,350.00	7,610.24	8,227.88	7,379.23	56.45	66.87	-75.64	1,865.31	2,697.94	605.36	532.08	73.28	8.261		
8,400.00	7,638.06	8,286.88	7,432.17	56.28	67.24	-79.41	1,859.19	2,723.17	622.35	549.94	72.40	8.595		
8,450.00	7,662.52	8,355.03	7,492.26	56.09	67.59	-83.16	1,844.67	2,751.78	640.40	568.76	71.64	8.940		
8,500.00	7,683.41	8,436.12	7,561.11	55.88	67.86	-87.03	1,817.25	2,784.52	658.92	588.21	70.72	9.318		
8,550.00	7,700.59	8,535.54	7,639.71	55.64	68.04	-91.10	1,769.41	2,821.85	677.05	607.58	69.47	9.746		
8,600.00	7,713.91	8,660.29	7,725.88	55.39	68.02	-95.26	1,689.37	2,862.68	693.45	625.25	68.21	10.167		
8,650.00	7,723.29	8,650.00	7,794.74	55.14	68.15	-98.21	1,589.26	2,895.18	706.14	637.85	68.29	10.340		
8,700.00	7,728.64	9,001.99	7,862.66	54.87	67.00	-101.13	1,388.52	2,926.90	713.04	639.40	73.64	9.683		
8,740.83	7,730.00	9,114.93	7,870.00	54.65	66.48	-101.32	1,276.04	2,930.02	713.51	635.59	77.92	9.157		
8,800.00	7,730.00	9,174.10	7,870.00	54.33	66.21	-101.32	1,216.87	2,929.82	713.51	636.31	77.19	9.243		
8,900.00	7,730.00	9,274.10	7,870.00	53.82	65.76	-101.32	1,116.87	2,929.48	713.51	637.43	76.08	9.378		
9,000.00	7,730.00	9,374.10	7,870.00	53.33	65.34	-101.32	1,016.87	2,929.14	713.52	638.41	75.11	9.500		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	9,474.10	7,870.00	52.87	64.95	-101.32	916.87	2,928.81	713.52	639.23	74.29	9.604		
9,200.00	7,730.00	9,574.10	7,870.00	52.44	64.57	-101.32	816.87	2,928.47	713.52	639.90	73.63	9.691		
9,300.00	7,730.00	9,674.10	7,870.00	52.03	64.22	-101.32	716.87	2,928.13	713.53	640.40	73.12	9.758		
9,400.00	7,730.00	9,774.10	7,870.00	51.65	63.88	-101.32	616.87	2,927.79	713.53	640.75	72.78	9.804		
9,500.00	7,730.00	9,874.10	7,870.00	51.29	63.57	-101.32	516.87	2,927.46	713.53	640.93	72.60	9.828		
9,600.00	7,730.00	9,974.10	7,870.00	50.95	63.29	-101.32	416.87	2,927.12	713.54	640.94	72.60	9.829		
9,700.00	7,730.00	10,074.10	7,870.00	50.64	63.02	-101.32	316.87	2,926.78	713.54	640.79	72.75	9.808		
9,800.00	7,730.00	10,174.10	7,870.00	50.35	62.78	-101.32	216.87	2,926.44	713.54	640.47	73.07	9.765		
9,900.00	7,730.00	10,274.10	7,870.00	50.09	62.55	-101.32	116.87	2,926.11	713.55	639.98	73.56	9.700		
10,000.00	7,730.00	10,374.10	7,870.00	49.86	62.36	-101.31	16.87	2,925.77	713.55	639.34	74.21	9.616		
10,100.00	7,730.00	10,474.10	7,870.00	49.65	62.19	-101.31	-83.13	2,925.43	713.55	638.54	75.01	9.513		
10,200.00	7,730.00	10,574.10	7,870.00	49.48	62.04	-101.31	-183.13	2,925.09	713.55	637.59	75.96	9.394		
10,300.00	7,730.00	10,674.10	7,870.00	49.35	61.92	-101.31	-283.13	2,924.76	713.56	636.50	77.06	9.260		
10,400.00	7,730.00	10,774.10	7,870.00	49.27	61.84	-101.31	-383.12	2,924.42	713.56	635.26	78.30	9.114		
10,500.00	7,730.00	10,874.10	7,870.00	49.26	61.79	-101.31	-483.12	2,924.08	713.56	633.90	79.67	8.957		
10,600.00	7,730.00	10,974.10	7,870.00	49.32	61.77	-101.31	-583.12	2,923.74	713.57	632.40	81.16	8.792		
10,700.00	7,730.00	11,074.10	7,870.00	49.51	61.79	-101.31	-683.12	2,923.41	713.57	630.79	82.78	8.620		
10,800.00	7,730.00	11,174.10	7,870.00	49.83	61.87	-101.31	-783.12	2,923.07	713.57	629.07	84.51	8.444		
10,900.00	7,730.00	11,274.10	7,870.00	50.31	61.99	-101.31	-883.12	2,922.73	713.58	627.24	86.34	8.265		
11,000.00	7,730.00	11,374.10	7,870.00	50.96	62.17	-101.31	-983.12	2,922.39	713.58	625.31	88.27	8.084		
11,100.00	7,730.00	11,474.10	7,870.00	51.75	62.42	-101.31	-1,083.12	2,922.05	713.58	623.29	90.30	7.903		
11,200.00	7,730.00	11,574.10	7,870.00	52.66	62.74	-101.31	-1,183.12	2,921.72	713.59	621.18	92.41	7.722		
11,300.00	7,730.00	11,674.10	7,870.00	53.67	63.14	-101.31	-1,283.12	2,921.38	713.59	618.99	94.60	7.543		
11,400.00	7,730.00	11,774.10	7,870.00	54.75	63.62	-101.31	-1,383.12	2,921.04	713.59	616.72	96.87	7.366		
11,500.00	7,730.00	11,874.10	7,870.00	55.89	64.18	-101.31	-1,483.12	2,920.70	713.60	614.39	99.21	7.193		
11,600.00	7,730.00	11,974.10	7,870.00	57.07	64.83	-101.31	-1,583.12	2,920.37	713.60	611.99	101.61	7.023		
11,700.00	7,730.00	12,074.10	7,870.00	58.30	65.57	-101.31	-1,683.12	2,920.03	713.60	609.53	104.08	6.857		
11,800.00	7,730.00	12,174.10	7,870.00	59.55	66.38	-101.31	-1,783.12	2,919.69	713.61	607.01	106.60	6.694		
11,900.00	7,730.00	12,274.10	7,870.00	60.84	67.27	-101.31	-1,883.12	2,919.35	713.61	604.44	109.17	6.537		
12,000.00	7,730.00	12,374.10	7,870.00	62.15	68.23	-101.31	-1,983.12	2,919.02	713.61	601.82	111.79	6.383		
12,100.00	7,730.00	12,474.10	7,870.00	63.49	69.25	-101.31	-2,083.12	2,918.68	713.62	599.16	114.46	6.235		
12,200.00	7,730.00	12,574.10	7,870.00	64.85	70.32	-101.31	-2,183.11	2,918.34	713.62	596.45	117.17	6.090		
12,300.00	7,730.00	12,674.10	7,870.00	66.22	71.45	-101.31	-2,283.11	2,918.00	713.62	593.70	119.92	5.951		
12,400.00	7,730.00	12,774.10	7,870.00	67.62	72.62	-101.31	-2,383.11	2,917.67	713.63	590.92	122.71	5.816		
12,500.00	7,730.00	12,874.10	7,870.00	69.03	73.82	-101.31	-2,483.11	2,917.33	713.63	588.10	125.53	5.685		
12,600.00	7,730.00	12,974.10	7,870.00	70.45	75.06	-101.31	-2,583.11	2,916.99	713.63	585.25	128.39	5.559		
12,700.00	7,730.00	13,074.10	7,870.00	71.90	76.34	-101.31	-2,683.11	2,916.65	713.64	582.37	131.27	5.436		
12,800.00	7,730.00	13,174.10	7,870.00	73.35	77.64	-101.31	-2,783.11	2,916.31	713.64	579.46	134.18	5.318		
12,900.00	7,730.00	13,274.10	7,870.00	74.81	78.96	-101.31	-2,883.11	2,915.98	713.64	576.52	137.12	5.204		
13,000.00	7,730.00	13,374.10	7,870.00	76.29	80.31	-101.31	-2,983.11	2,915.64	713.65	573.56	140.08	5.094		
13,100.00	7,730.00	13,474.10	7,870.00	77.78	81.68	-101.31	-3,083.11	2,915.30	713.65	570.58	143.07	4.988		
13,200.00	7,730.00	13,574.10	7,870.00	79.28	83.07	-101.31	-3,183.11	2,914.96	713.65	567.57	146.08	4.885		
13,300.00	7,730.00	13,674.10	7,870.00	80.79	84.48	-101.31	-3,283.11	2,914.63	713.66	564.55	149.11	4.786		
13,400.00	7,730.00	13,774.10	7,870.00	82.31	85.90	-101.31	-3,383.11	2,914.29	713.66	561.50	152.16	4.690		
13,500.00	7,730.00	13,874.10	7,870.00	83.84	87.33	-101.31	-3,483.11	2,913.95	713.66	558.44	155.22	4.598		
13,600.00	7,730.00	13,974.10	7,870.00	85.37	88.78	-101.31	-3,583.11	2,913.61	713.67	555.36	158.31	4.508		
13,700.00	7,730.00	14,074.10	7,870.00	86.92	90.24	-101.31	-3,683.11	2,913.28	713.67	552.26	161.41	4.422		
13,800.00	7,730.00	14,174.10	7,870.00	88.47	91.72	-101.31	-3,783.11	2,912.94	713.67	549.15	164.52	4.338		
13,900.00	7,730.00	14,274.10	7,870.00	90.03	93.20	-101.31	-3,883.10	2,912.60	713.67	546.02	167.65	4.257		
14,000.00	7,730.00	14,374.10	7,870.00	91.59	94.70	-101.31	-3,983.10	2,912.26	713.68	542.88	170.79	4.179		
14,100.00	7,730.00	14,474.10	7,870.00	93.16	96.21	-101.31	-4,083.10	2,911.93	713.68	539.73	173.95	4.103		
14,200.00	7,730.00	14,574.10	7,870.00	94.74	97.72	-101.31	-4,183.10	2,911.59	713.68	536.57	177.12	4.029		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	14,674.10	7,870.00	96.33	99.24	-101.31	-4,283.10	2,911.25	713.69	533.39	180.30	3.958		
14,400.00	7,730.00	14,774.10	7,870.00	97.92	100.77	-101.31	-4,383.10	2,910.91	713.69	530.20	183.49	3.890		
14,500.00	7,730.00	14,874.10	7,870.00	99.51	102.31	-101.31	-4,483.10	2,910.57	713.69	527.01	186.69	3.823		
14,600.00	7,730.00	14,974.10	7,870.00	101.11	103.86	-101.31	-4,583.10	2,910.24	713.70	523.80	189.90	3.758		
14,700.00	7,730.00	15,074.10	7,870.00	102.72	105.41	-101.31	-4,683.10	2,909.90	713.70	520.58	193.12	3.696		
14,800.00	7,730.00	15,174.10	7,870.00	104.33	106.97	-101.31	-4,783.10	2,909.56	713.70	517.36	196.34	3.635		
14,900.00	7,730.00	15,274.10	7,870.00	105.94	108.54	-101.31	-4,883.10	2,909.22	713.71	514.13	199.58	3.576		
15,000.00	7,730.00	15,374.10	7,870.00	107.56	110.11	-101.31	-4,983.10	2,908.89	713.71	510.88	202.83	3.519		
15,100.00	7,730.00	15,474.10	7,870.00	109.18	111.69	-101.31	-5,083.10	2,908.55	713.71	507.64	206.08	3.463		
15,200.00	7,730.00	15,574.10	7,870.00	110.81	113.27	-101.31	-5,183.10	2,908.21	713.72	504.38	209.34	3.409		
15,300.00	7,730.00	15,674.10	7,870.00	112.44	114.86	-101.31	-5,283.10	2,907.87	713.72	501.12	212.60	3.357		
15,400.00	7,730.00	15,774.10	7,870.00	114.08	116.46	-101.31	-5,383.10	2,907.54	713.72	497.85	215.88	3.306		
15,500.00	7,730.00	15,874.10	7,870.00	115.72	118.06	-101.31	-5,483.10	2,907.20	713.73	494.57	219.16	3.257		
15,600.00	7,730.00	15,974.10	7,870.00	117.36	119.66	-101.31	-5,583.10	2,906.86	713.73	491.29	222.44	3.209		
15,700.00	7,730.00	16,074.10	7,870.00	119.00	121.27	-101.31	-5,683.09	2,906.52	713.73	488.00	225.73	3.162		
15,800.00	7,730.00	16,174.10	7,870.00	120.65	122.88	-101.31	-5,783.09	2,906.19	713.74	484.70	229.03	3.116		
15,900.00	7,730.00	16,274.10	7,870.00	122.30	124.49	-101.31	-5,883.09	2,905.85	713.74	481.41	232.33	3.072		
16,000.00	7,730.00	16,374.10	7,870.00	123.96	126.11	-101.31	-5,983.09	2,905.51	713.74	478.10	235.64	3.029		
16,100.00	7,730.00	16,474.10	7,870.00	125.61	127.74	-101.31	-6,083.09	2,905.17	713.75	474.79	238.95	2.987		
16,200.00	7,730.00	16,574.10	7,870.00	127.27	129.36	-101.31	-6,183.09	2,904.83	713.75	471.48	242.27	2.946		
16,300.00	7,730.00	16,674.10	7,870.00	128.94	130.99	-101.31	-6,283.09	2,904.50	713.75	468.16	245.59	2.906		
16,400.00	7,730.00	16,774.10	7,870.00	130.60	132.63	-101.31	-6,383.09	2,904.16	713.76	464.84	248.92	2.867		
16,500.00	7,730.00	16,874.10	7,870.00	132.27	134.27	-101.31	-6,483.09	2,903.82	713.76	461.51	252.25	2.830		
16,600.00	7,730.00	16,974.10	7,870.00	133.94	135.91	-101.31	-6,583.09	2,903.48	713.76	458.18	255.58	2.793		
16,700.00	7,730.00	17,074.10	7,870.00	135.61	137.55	-101.31	-6,683.09	2,903.15	713.77	454.85	258.92	2.757		
16,800.00	7,730.00	17,174.10	7,870.00	137.28	139.19	-101.31	-6,783.09	2,902.81	713.77	451.51	262.26	2.722		
16,900.00	7,730.00	17,274.10	7,870.00	138.96	140.84	-101.31	-6,883.09	2,902.47	713.77	448.17	265.61	2.687		
17,000.00	7,730.00	17,374.10	7,870.00	140.64	142.49	-101.31	-6,983.09	2,902.13	713.78	444.82	268.95	2.654		
17,100.00	7,730.00	17,474.10	7,870.00	142.32	144.15	-101.31	-7,083.09	2,901.80	713.78	441.47	272.31	2.621		
17,200.00	7,730.00	17,574.10	7,870.00	144.00	145.80	-101.31	-7,183.09	2,901.46	713.78	438.12	275.66	2.589		
17,300.00	7,730.00	17,674.10	7,870.00	145.69	147.46	-101.31	-7,283.09	2,901.12	713.79	434.77	279.02	2.558		
17,400.00	7,730.00	17,774.10	7,870.00	147.37	149.12	-101.31	-7,383.08	2,900.78	713.79	431.41	282.38	2.528		
17,500.00	7,730.00	17,874.10	7,870.00	149.06	150.79	-101.31	-7,483.08	2,900.45	713.79	428.05	285.74	2.498		
17,600.00	7,730.00	17,974.10	7,870.00	150.75	152.45	-101.31	-7,583.08	2,900.11	713.79	424.69	289.11	2.469		
17,700.00	7,730.00	18,074.10	7,870.00	152.44	154.12	-101.31	-7,683.08	2,899.77	713.80	421.32	292.48	2.441		
17,800.00	7,730.00	18,174.10	7,870.00	154.13	155.79	-101.31	-7,783.08	2,899.43	713.80	417.95	295.85	2.413		
17,900.00	7,730.00	18,274.10	7,870.00	155.83	157.46	-101.31	-7,883.08	2,899.10	713.80	414.58	299.22	2.386		
18,000.00	7,730.00	18,374.10	7,870.00	157.52	159.14	-101.31	-7,983.08	2,898.76	713.81	411.21	302.60	2.359		
18,100.00	7,730.00	18,474.10	7,870.00	159.22	160.81	-101.31	-8,083.08	2,898.42	713.81	407.83	305.98	2.333		
18,200.00	7,730.00	18,574.10	7,870.00	160.92	162.49	-101.31	-8,183.08	2,898.08	713.81	404.45	309.36	2.307		
18,300.00	7,730.00	18,674.10	7,870.00	162.62	164.17	-101.31	-8,283.08	2,897.74	713.82	401.08	312.74	2.282		
18,400.00	7,730.00	18,774.10	7,870.00	164.32	165.85	-101.31	-8,383.08	2,897.41	713.82	397.69	316.13	2.258		
18,426.22	7,730.00	18,800.32	7,870.00	164.76	166.29	-101.31	-8,409.30	2,897.32	713.82	396.81	317.01	2.252 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	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		
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	29.96	29.96	28.26	1.70	17.595		
400.00	400.00	400.00	400.00	1.21	1.21	90.00	0.00	29.96	29.96	27.54	2.42	12.382		
500.00	500.00	500.00	500.00	1.57	1.57	90.00	0.00	29.96	29.96	26.82	3.14	9.552		
600.00	600.00	600.00	600.00	1.93	1.93	90.00	0.00	29.96	29.96	26.11	3.85	7.775		
700.00	700.00	700.00	700.00	2.29	2.29	90.00	0.00	29.96	29.96	25.39	4.57	6.555		
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	29.96	29.96	24.67	5.29	5.666		
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	29.96	29.96	23.96	6.00	4.990 CC, ES		
1,000.00	1,000.00	999.09	999.07	3.36	3.35	88.30	0.93	31.40	31.43	24.71	6.71	4.682		
1,100.00	1,100.00	1,097.94	1,097.79	3.72	3.70	84.07	3.71	35.70	35.96	28.55	7.41	4.852		
1,200.00	1,200.00	1,196.33	1,195.80	4.08	4.06	79.01	8.31	42.82	43.82	35.72	8.10	5.409		
1,300.00	1,299.98	1,294.23	1,292.98	4.43	4.42	28.05	14.70	52.70	53.63	44.85	8.78	6.110		
1,400.00	1,399.84	1,391.78	1,389.37	4.79	4.79	25.90	22.86	65.32	63.74	54.30	9.44	6.752		
1,500.00	1,499.45	1,488.99	1,484.85	5.15	5.18	24.78	32.75	80.63	74.02	63.93	10.10	7.332		
1,600.00	1,598.70	1,585.85	1,579.32	5.51	5.59	24.32	44.36	98.58	84.42	73.68	10.74	7.857		
1,700.00	1,697.47	1,682.37	1,672.68	5.89	6.03	24.29	57.64	119.12	94.91	83.52	11.39	8.332		
1,800.00	1,795.62	1,778.56	1,764.85	6.28	6.50	24.56	72.56	142.21	105.48	93.44	12.04	8.761		
1,900.00	1,893.06	1,874.41	1,855.73	6.69	7.01	25.05	89.10	167.79	116.12	103.42	12.69	9.149		
2,000.00	1,989.64	1,969.92	1,945.22	7.13	7.56	25.70	107.21	195.81	126.83	113.47	13.35	9.498		
2,100.00	2,085.27	2,065.11	2,033.26	7.61	8.15	26.46	126.86	226.21	137.61	123.58	14.03	9.807		
2,200.00	2,179.82	2,159.98	2,119.75	8.12	8.79	27.32	148.01	258.93	148.48	133.74	14.73	10.077		
2,300.00	2,273.17	2,254.52	2,204.61	8.67	9.48	28.23	170.62	293.91	159.43	143.96	15.47	10.306		
2,400.00	2,365.21	2,348.75	2,287.78	9.27	10.22	29.20	194.66	331.10	170.48	154.23	16.25	10.494		
2,500.00	2,455.84	2,442.67	2,369.19	9.92	11.02	30.20	220.09	370.44	181.62	164.54	17.07	10.637		
2,580.62	2,527.80	2,518.17	2,433.49	10.49	11.70	31.03	241.57	403.67	190.68	172.89	17.79	10.720		
2,600.00	2,544.97	2,536.29	2,448.76	10.63	11.87	31.24	246.86	411.85	192.92	174.96	17.96	10.739		
2,700.00	2,633.58	2,631.58	2,528.18	11.37	12.79	32.10	275.45	456.08	206.12	187.16	18.96	10.870		
2,800.00	2,722.19	2,730.58	2,610.33	12.13	13.78	32.83	305.44	502.48	219.96	199.84	20.12	10.932		
2,900.00	2,810.80	2,829.58	2,692.48	12.91	14.79	33.46	335.43	548.87	233.84	212.52	21.31	10.971		
3,000.00	2,899.41	2,928.58	2,774.63	13.71	15.81	34.03	365.42	595.27	247.74	225.20	22.54	10.993		
3,100.00	2,988.02	3,027.59	2,856.79	14.52	16.85	34.53	395.42	641.67	261.66	237.87	23.78	11.002		
3,200.00	3,076.63	3,126.59	2,938.94	15.34	17.90	34.98	425.41	688.07	275.59	250.54	25.05	11.002		
3,300.00	3,165.24	3,225.59	3,021.09	16.16	18.95	35.39	455.40	734.47	289.55	263.21	26.34	10.994		
3,400.00	3,253.85	3,324.59	3,103.24	17.00	20.02	35.76	485.39	780.86	303.51	275.87	27.64	10.981		
3,500.00	3,342.46	3,423.59	3,185.40	17.84	21.09	36.10	515.38	827.26	317.49	288.53	28.96	10.964		
3,600.00	3,431.07	3,522.59	3,267.55	18.69	22.16	36.41	545.38	873.66	331.48	301.19	30.29	10.944		
3,700.00	3,519.68	3,621.60	3,349.70	19.55	23.24	36.70	575.37	920.06	345.48	313.85	31.63	10.923		
3,800.00	3,608.29	3,720.60	3,431.85	20.40	24.32	36.96	605.36	966.46	359.48	326.50	32.98	10.899		
3,900.00	3,696.90	3,819.60	3,514.01	21.26	25.41	37.21	635.35	1,012.85	373.49	339.15	34.34	10.875		
4,000.00	3,785.51	3,918.60	3,596.16	22.13	26.50	37.43	665.35	1,059.25	387.51	351.80	35.71	10.851		
4,100.00	3,874.12	4,017.60	3,678.31	23.00	27.59	37.64	695.34	1,105.65	401.53	364.44	37.09	10.826		
4,200.00	3,962.73	4,116.60	3,760.46	23.87	28.69	37.84	725.33	1,152.05	415.56	377.09	38.47	10.802		
4,300.00	4,051.34	4,215.61	3,842.61	24.74	29.78	38.02	755.32	1,198.44	429.59	389.73	39.86	10.777		
4,400.00	4,139.95	4,314.61	3,924.77	25.62	30.88	38.19	785.31	1,244.84	443.63	402.37	41.25	10.754		
4,500.00	4,228.56	4,413.61	4,006.92	26.49	31.98	38.35	815.31	1,291.24	457.67	415.02	42.65	10.730		
4,600.00	4,317.17	4,512.61	4,089.07	27.37	33.09	38.51	845.30	1,337.64	471.71	427.66	44.06	10.707		
4,700.00	4,405.78	4,611.61	4,171.22	28.25	34.19	38.65	875.29	1,384.04	485.76	440.29	45.46	10.684		
4,800.00	4,494.39	4,710.61	4,253.38	29.13	35.29	38.78	905.28	1,430.43	499.81	452.93	46.88	10.663		
4,900.00	4,583.00	4,809.61	4,335.53	30.02	36.40	38.91	935.27	1,476.83	513.86	465.57	48.29	10.641		
5,000.00	4,671.61	4,908.62	4,417.68	30.90	37.51	39.03	965.27	1,523.23	527.91	478.21	49.71	10.620		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,007.62	4,499.83	31.79	38.61	39.15	995.26	1,569.63	541.97	490.84	51.13	10.600		
5,200.00	4,848.83	5,106.62	4,581.99	32.67	39.72	39.25	1,025.25	1,616.03	556.03	503.48	52.55	10.581		
5,300.00	4,937.44	5,205.62	4,664.14	33.56	40.83	39.36	1,055.24	1,662.42	570.09	516.11	53.98	10.562		
5,400.00	5,026.05	5,304.62	4,746.29	34.45	41.94	39.46	1,085.23	1,708.82	584.15	528.75	55.40	10.543		
5,500.00	5,114.66	5,403.62	4,828.44	35.34	43.05	39.55	1,115.23	1,755.22	598.21	541.38	56.83	10.526		
5,600.00	5,203.27	5,502.63	4,910.60	36.23	44.16	39.64	1,145.22	1,801.62	612.28	554.01	58.27	10.508		
5,700.00	5,291.88	5,601.63	4,992.75	37.12	45.27	39.72	1,175.21	1,848.01	626.34	566.64	59.70	10.492		
5,800.00	5,380.50	5,700.63	5,074.90	38.01	46.39	39.80	1,205.20	1,894.41	640.41	579.28	61.13	10.475		
5,900.00	5,469.11	5,799.63	5,157.05	38.90	47.50	39.88	1,235.20	1,940.81	654.48	591.91	62.57	10.460		
6,000.00	5,557.72	5,901.37	5,239.21	39.79	48.64	39.96	1,265.19	1,987.21	668.55	604.52	64.03	10.441		
6,100.00	5,646.33	6,002.37	5,321.36	40.68	49.78	40.03	1,295.18	2,033.61	682.62	617.14	65.48	10.424		
6,200.00	5,734.94	6,096.63	5,403.51	41.58	50.84	40.10	1,325.17	2,080.00	696.69	629.80	66.89	10.415		
6,300.00	5,823.55	6,195.64	5,485.66	42.47	51.95	40.16	1,355.16	2,126.40	710.77	642.43	68.33	10.401		
6,400.00	5,912.16	6,305.36	5,567.82	43.36	53.19	40.23	1,385.16	2,172.80	724.84	654.98	69.86	10.376		
6,500.00	6,000.77	6,393.64	5,649.97	44.26	54.18	40.29	1,415.15	2,219.20	738.91	667.69	71.22	10.375		
6,600.00	6,089.38	6,507.36	5,732.12	45.15	55.46	40.35	1,445.14	2,265.60	752.99	680.21	72.78	10.347		
6,700.00	6,177.99	6,608.36	5,814.27	46.05	56.60	40.40	1,475.13	2,311.99	767.07	692.83	74.24	10.333		
6,800.00	6,266.60	6,709.36	5,896.42	46.94	57.74	40.46	1,505.12	2,358.39	781.14	705.44	75.70	10.319		
6,900.00	6,355.21	6,789.65	5,978.58	47.84	58.65	40.51	1,535.12	2,404.79	795.22	718.21	77.01	10.326		
7,000.00	6,443.82	6,888.65	6,060.73	48.74	59.76	40.56	1,565.11	2,451.19	809.30	730.84	78.46	10.315		
7,100.00	6,532.43	6,987.65	6,142.88	49.63	60.88	40.61	1,595.10	2,497.59	823.38	743.47	79.91	10.304		
7,200.00	6,621.04	7,086.65	6,225.03	50.53	61.99	40.66	1,625.09	2,543.98	837.46	756.10	81.36	10.293		
7,300.00	6,709.65	7,185.65	6,307.19	51.42	63.11	40.70	1,655.09	2,590.38	851.54	768.72	82.81	10.283		
7,400.00	6,798.26	7,284.65	6,389.34	52.32	64.23	40.75	1,685.08	2,636.78	865.62	781.35	84.26	10.273		
7,500.00	6,886.87	7,383.65	6,471.49	53.22	65.35	40.79	1,715.07	2,683.18	879.70	793.98	85.72	10.263		
7,600.00	6,975.48	7,482.66	6,553.64	54.12	66.46	40.83	1,745.06	2,729.57	893.78	806.61	87.17	10.253		
7,656.30	7,025.36	7,538.39	6,599.89	54.62	67.09	40.86	1,761.95	2,755.69	901.71	813.72	87.99	10.248		
7,700.00	7,064.54	7,581.63	6,635.77	55.00	67.58	34.24	1,775.05	2,775.96	907.82	819.32	88.51	10.257		
7,750.00	7,110.29	7,630.82	6,676.59	55.40	68.14	24.53	1,789.95	2,799.01	914.71	825.91	88.80	10.301		
7,800.00	7,156.67	7,679.34	6,716.85	55.75	68.68	12.72	1,804.65	2,821.75	921.51	832.74	88.78	10.380		
7,850.00	7,203.34	7,726.83	6,756.26	56.05	69.22	-0.39	1,819.03	2,844.01	928.31	839.88	88.44	10.497		
7,900.00	7,249.95	7,772.93	6,794.51	56.30	69.74	-13.44	1,833.00	2,865.61	935.24	847.45	87.80	10.652		
7,950.00	7,296.14	7,817.32	6,831.35	56.50	70.24	-25.18	1,846.44	2,886.42	942.48	855.61	86.87	10.849		
8,000.00	7,341.56	7,862.27	6,869.14	56.64	70.74	-35.03	1,858.13	2,907.75	950.16	864.33	85.83	11.071		
8,050.00	7,385.86	7,909.07	6,909.20	56.74	71.23	-42.97	1,866.66	2,930.36	958.26	873.46	84.80	11.300		
8,100.00	7,428.71	7,958.04	6,951.63	56.79	71.71	-49.32	1,871.53	2,954.28	966.75	882.91	83.84	11.531		
8,150.00	7,469.77	8,009.52	6,996.46	56.80	72.16	-54.43	1,872.14	2,979.55	975.53	892.58	82.95	11.760		
8,200.00	7,508.75	8,063.94	7,043.71	56.77	72.59	-58.61	1,867.77	3,006.16	984.54	902.34	82.20	11.978		
8,250.00	7,545.33	8,121.77	7,093.29	56.70	72.98	-62.08	1,857.51	3,034.07	993.66	912.07	81.59	12.179		
8,300.00	7,579.25	8,183.54	7,144.96	56.59	73.32	-65.01	1,840.29	3,063.13	1,002.74	921.60	81.14	12.358		
8,350.00	7,610.24	8,249.80	7,198.26	56.45	73.60	-67.52	1,814.83	3,093.08	1,011.64	930.76	80.88	12.508		
8,400.00	7,638.06	8,321.11	7,252.35	56.28	73.79	-69.69	1,779.76	3,123.44	1,020.16	939.36	80.80	12.625		
8,450.00	7,662.52	8,397.91	7,305.89	56.09	73.90	-71.57	1,733.70	3,153.46	1,028.07	947.13	80.94	12.701		
8,500.00	7,683.41	8,480.46	7,356.91	55.88	73.89	-73.16	1,675.53	3,182.01	1,035.14	953.81	81.33	12.728		
8,550.00	7,700.59	8,568.64	7,402.79	55.64	73.78	-74.46	1,604.81	3,207.63	1,041.08	959.07	82.01	12.694		
8,600.00	7,713.91	8,661.82	7,440.40	55.39	73.56	-75.43	1,522.29	3,228.54	1,045.65	962.62	83.03	12.594		
8,650.00	7,723.29	8,758.72	7,466.64	55.14	73.23	-76.04	1,430.25	3,243.02	1,048.63	964.26	84.37	12.429		
8,700.00	7,728.64	8,857.52	7,479.12	54.87	72.83	-76.25	1,332.60	3,249.72	1,049.88	963.92	85.97	12.213		
8,740.74	7,730.00	8,915.11	7,480.00	54.65	72.58	-76.22	1,275.03	3,250.02	1,049.84	963.49	86.35	12.159		
8,740.83	7,730.00	8,915.20	7,480.00	54.65	72.58	-76.22	1,274.94	3,250.02	1,049.84	963.50	86.35	12.159		
8,800.00	7,730.00	8,974.37	7,480.00	54.33	72.32	-76.22	1,215.77	3,249.82	1,049.84	963.98	85.87	12.227		
8,900.00	7,730.00	9,074.37	7,480.00	53.82	71.90	-76.22	1,115.77	3,249.48	1,049.84	964.68	85.16	12.328		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	9,174.37	7,480.00	53.33	71.51	-76.22	1,015.77	3,249.14	1,049.85	965.26	84.59	12.411		
9,100.00	7,730.00	9,274.37	7,480.00	52.87	71.13	-76.22	915.77	3,248.80	1,049.85	965.69	84.16	12.475		
9,200.00	7,730.00	9,374.37	7,480.00	52.44	70.78	-76.22	815.77	3,248.46	1,049.85	965.99	83.86	12.519		
9,300.00	7,730.00	9,474.37	7,480.00	52.03	70.44	-76.22	715.77	3,248.12	1,049.85	966.14	83.71	12.541		
9,400.00	7,730.00	9,574.37	7,480.00	51.65	70.12	-76.22	615.78	3,247.79	1,049.85	966.15	83.70	12.542		
9,500.00	7,730.00	9,674.37	7,480.00	51.29	69.83	-76.22	515.78	3,247.45	1,049.86	966.02	83.84	12.522		
9,600.00	7,730.00	9,774.37	7,480.00	50.95	69.55	-76.22	415.78	3,247.11	1,049.86	965.74	84.12	12.481		
9,700.00	7,730.00	9,874.37	7,480.00	50.64	69.29	-76.22	315.78	3,246.77	1,049.86	965.33	84.53	12.419		
9,800.00	7,730.00	9,974.37	7,480.00	50.35	69.06	-76.22	215.78	3,246.43	1,049.86	964.77	85.09	12.338		
9,900.00	7,730.00	10,074.37	7,480.00	50.09	68.84	-76.22	115.78	3,246.09	1,049.86	964.08	85.78	12.239		
10,000.00	7,730.00	10,174.37	7,480.00	49.86	68.65	-76.22	15.78	3,245.75	1,049.86	963.26	86.60	12.123		
10,100.00	7,730.00	10,274.37	7,480.00	49.65	68.47	-76.22	-84.22	3,245.41	1,049.87	962.31	87.56	11.991		
10,200.00	7,730.00	10,374.37	7,480.00	49.48	68.32	-76.22	-184.22	3,245.07	1,049.87	961.23	88.63	11.845		
10,300.00	7,730.00	10,474.37	7,480.00	49.35	68.19	-76.22	-284.22	3,244.73	1,049.87	960.04	89.83	11.687		
10,400.00	7,730.00	10,574.37	7,480.00	49.27	68.09	-76.22	-384.22	3,244.40	1,049.87	958.73	91.14	11.519		
10,500.00	7,730.00	10,674.37	7,480.00	49.26	68.02	-76.22	-484.22	3,244.06	1,049.87	957.31	92.57	11.342		
10,600.00	7,730.00	10,774.37	7,480.00	49.32	67.97	-76.22	-584.22	3,243.72	1,049.88	955.78	94.09	11.158		
10,700.00	7,730.00	10,874.37	7,480.00	49.51	67.96	-76.22	-684.22	3,243.38	1,049.88	954.15	95.72	10.968		
10,800.00	7,730.00	10,974.37	7,480.00	49.83	67.97	-76.22	-784.22	3,243.04	1,049.88	952.43	97.45	10.774		
10,900.00	7,730.00	11,074.37	7,480.00	50.31	68.02	-76.22	-884.22	3,242.70	1,049.88	950.62	99.26	10.577		
11,000.00	7,730.00	11,174.37	7,480.00	50.96	68.12	-76.22	-984.22	3,242.36	1,049.88	948.72	101.16	10.378		
11,100.00	7,730.00	11,274.37	7,480.00	51.75	68.26	-76.22	-1,084.22	3,242.02	1,049.88	946.75	103.14	10.179		
11,200.00	7,730.00	11,374.37	7,480.00	52.66	68.44	-76.22	-1,184.21	3,241.68	1,049.89	944.69	105.20	9.980		
11,300.00	7,730.00	11,474.37	7,480.00	53.67	68.68	-76.22	-1,284.21	3,241.34	1,049.89	942.57	107.32	9.782		
11,400.00	7,730.00	11,574.37	7,480.00	54.75	68.98	-76.22	-1,384.21	3,241.01	1,049.89	940.37	109.52	9.586		
11,500.00	7,730.00	11,674.37	7,480.00	55.89	69.33	-76.22	-1,484.21	3,240.67	1,049.89	938.12	111.78	9.393		
11,600.00	7,730.00	11,774.37	7,480.00	57.07	69.76	-76.22	-1,584.21	3,240.33	1,049.89	935.80	114.10	9.202		
11,700.00	7,730.00	11,874.37	7,480.00	58.30	70.25	-76.22	-1,684.21	3,239.99	1,049.90	933.43	116.47	9.014		
11,800.00	7,730.00	11,974.37	7,480.00	59.55	70.81	-76.22	-1,784.21	3,239.65	1,049.90	931.00	118.90	8.830		
11,900.00	7,730.00	12,074.37	7,480.00	60.84	71.45	-76.22	-1,884.21	3,239.31	1,049.90	928.52	121.38	8.650		
12,000.00	7,730.00	12,174.37	7,480.00	62.15	72.15	-76.22	-1,984.21	3,238.97	1,049.90	926.00	123.90	8.474		
12,100.00	7,730.00	12,274.37	7,480.00	63.49	72.93	-76.22	-2,084.21	3,238.63	1,049.90	923.44	126.47	8.302		
12,200.00	7,730.00	12,374.37	7,480.00	64.85	73.78	-76.22	-2,184.21	3,238.29	1,049.91	920.83	129.08	8.134		
12,300.00	7,730.00	12,474.37	7,480.00	66.22	74.69	-76.22	-2,284.21	3,237.95	1,049.91	918.18	131.73	7.970		
12,400.00	7,730.00	12,574.37	7,480.00	67.62	75.66	-76.22	-2,384.21	3,237.61	1,049.91	915.50	134.41	7.811		
12,500.00	7,730.00	12,674.37	7,480.00	69.03	76.68	-76.22	-2,484.21	3,237.28	1,049.91	912.78	137.13	7.656		
12,600.00	7,730.00	12,774.37	7,480.00	70.45	77.76	-76.22	-2,584.21	3,236.94	1,049.91	910.03	139.88	7.506		
12,700.00	7,730.00	12,874.37	7,480.00	71.90	78.88	-76.22	-2,684.21	3,236.60	1,049.91	907.25	142.66	7.359		
12,800.00	7,730.00	12,974.37	7,480.00	73.35	80.04	-76.22	-2,784.21	3,236.26	1,049.92	904.44	145.47	7.217		
12,900.00	7,730.00	13,074.37	7,480.00	74.81	81.24	-76.22	-2,884.20	3,235.92	1,049.92	901.61	148.31	7.079		
13,000.00	7,730.00	13,174.37	7,480.00	76.29	82.48	-76.22	-2,984.20	3,235.58	1,049.92	898.75	151.17	6.945		
13,100.00	7,730.00	13,274.37	7,480.00	77.78	83.75	-76.22	-3,084.20	3,235.24	1,049.92	895.86	154.06	6.815		
13,200.00	7,730.00	13,374.37	7,480.00	79.28	85.04	-76.22	-3,184.20	3,234.90	1,049.92	892.95	156.97	6.689		
13,300.00	7,730.00	13,474.37	7,480.00	80.79	86.36	-76.22	-3,284.20	3,234.56	1,049.93	890.02	159.90	6.566		
13,400.00	7,730.00	13,574.37	7,480.00	82.31	87.71	-76.22	-3,384.20	3,234.22	1,049.93	887.07	162.86	6.447		
13,500.00	7,730.00	13,674.37	7,480.00	83.84	89.07	-76.22	-3,484.20	3,233.89	1,049.93	884.10	165.83	6.331		
13,600.00	7,730.00	13,774.37	7,480.00	85.37	90.45	-76.22	-3,584.20	3,233.55	1,049.93	881.11	168.82	6.219		
13,700.00	7,730.00	13,874.37	7,480.00	86.92	91.86	-76.22	-3,684.20	3,233.21	1,049.93	878.11	171.83	6.110		
13,800.00	7,730.00	13,974.37	7,480.00	88.47	93.28	-76.22	-3,784.20	3,232.87	1,049.94	875.09	174.85	6.005		
13,900.00	7,730.00	14,074.37	7,480.00	90.03	94.71	-76.23	-3,884.20	3,232.53	1,049.94	872.05	177.89	5.902		
14,000.00	7,730.00	14,174.37	7,480.00	91.59	96.16	-76.23	-3,984.20	3,232.19	1,049.94	868.99	180.94	5.803		
14,100.00	7,730.00	14,274.37	7,480.00	93.16	97.62	-76.23	-4,084.20	3,231.85	1,049.94	865.93	184.01	5.706		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	14,374.37	7,480.00	94.74	99.09	-76.23	-4,184.20	3,231.51	1,049.94	862.85	187.09	5.612		
14,300.00	7,730.00	14,474.37	7,480.00	96.33	100.58	-76.23	-4,284.20	3,231.17	1,049.94	859.75	190.19	5.521		
14,400.00	7,730.00	14,574.37	7,480.00	97.92	102.07	-76.23	-4,384.20	3,230.83	1,049.95	856.65	193.30	5.432		
14,500.00	7,730.00	14,674.37	7,480.00	99.51	103.57	-76.23	-4,484.20	3,230.50	1,049.95	853.53	196.42	5.346		
14,600.00	7,730.00	14,774.37	7,480.00	101.11	105.09	-76.23	-4,584.20	3,230.16	1,049.95	850.41	199.54	5.262		
14,700.00	7,730.00	14,874.37	7,480.00	102.72	106.61	-76.23	-4,684.19	3,229.82	1,049.95	847.27	202.68	5.180		
14,800.00	7,730.00	14,974.37	7,480.00	104.33	108.14	-76.23	-4,784.19	3,229.48	1,049.95	844.12	205.83	5.101		
14,900.00	7,730.00	15,074.37	7,480.00	105.94	109.68	-76.23	-4,884.19	3,229.14	1,049.96	840.96	208.99	5.024		
15,000.00	7,730.00	15,174.37	7,480.00	107.56	111.23	-76.23	-4,984.19	3,228.80	1,049.96	837.79	212.16	4.949		
15,100.00	7,730.00	15,274.37	7,480.00	109.18	112.78	-76.23	-5,084.19	3,228.46	1,049.96	834.62	215.34	4.876		
15,200.00	7,730.00	15,374.37	7,480.00	110.81	114.34	-76.23	-5,184.19	3,228.12	1,049.96	831.43	218.53	4.805		
15,300.00	7,730.00	15,474.37	7,480.00	112.44	115.91	-76.23	-5,284.19	3,227.78	1,049.96	828.24	221.72	4.736		
15,400.00	7,730.00	15,574.37	7,480.00	114.08	117.48	-76.23	-5,384.19	3,227.44	1,049.97	825.04	224.92	4.668		
15,500.00	7,730.00	15,674.37	7,480.00	115.72	119.06	-76.23	-5,484.19	3,227.11	1,049.97	821.84	228.13	4.602		
15,600.00	7,730.00	15,774.37	7,480.00	117.36	120.64	-76.23	-5,584.19	3,226.77	1,049.97	818.62	231.35	4.538		
15,700.00	7,730.00	15,874.37	7,480.00	119.00	122.23	-76.23	-5,684.19	3,226.43	1,049.97	815.40	234.57	4.476		
15,800.00	7,730.00	15,974.37	7,480.00	120.65	123.82	-76.23	-5,784.19	3,226.09	1,049.97	812.17	237.80	4.415		
15,900.00	7,730.00	16,074.37	7,480.00	122.30	125.42	-76.23	-5,884.19	3,225.75	1,049.97	808.94	241.04	4.356		
16,000.00	7,730.00	16,174.37	7,480.00	123.96	127.02	-76.23	-5,984.19	3,225.41	1,049.98	805.70	244.28	4.298		
16,100.00	7,730.00	16,274.37	7,480.00	125.61	128.63	-76.23	-6,084.19	3,225.07	1,049.98	802.45	247.52	4.242		
16,200.00	7,730.00	16,374.37	7,480.00	127.27	130.24	-76.23	-6,184.19	3,224.73	1,049.98	799.20	250.78	4.187		
16,300.00	7,730.00	16,474.37	7,480.00	128.94	131.85	-76.23	-6,284.19	3,224.39	1,049.98	795.95	254.03	4.133		
16,400.00	7,730.00	16,574.37	7,480.00	130.60	133.47	-76.23	-6,384.18	3,224.05	1,049.98	792.69	257.30	4.081		
16,500.00	7,730.00	16,674.37	7,480.00	132.27	135.10	-76.23	-6,484.18	3,223.71	1,049.99	789.42	260.57	4.030		
16,600.00	7,730.00	16,774.37	7,480.00	133.94	136.72	-76.23	-6,584.18	3,223.38	1,049.99	786.15	263.84	3.980		
16,700.00	7,730.00	16,874.37	7,480.00	135.61	138.35	-76.23	-6,684.18	3,223.04	1,049.99	782.87	267.12	3.931		
16,800.00	7,730.00	16,974.37	7,480.00	137.28	139.98	-76.23	-6,784.18	3,222.70	1,049.99	779.59	270.40	3.883		
16,900.00	7,730.00	17,074.37	7,480.00	138.96	141.62	-76.23	-6,884.18	3,222.36	1,049.99	776.31	273.68	3.837		
17,000.00	7,730.00	17,174.37	7,480.00	140.64	143.26	-76.23	-6,984.18	3,222.02	1,049.99	773.02	276.97	3.791		
17,100.00	7,730.00	17,274.37	7,480.00	142.32	144.90	-76.23	-7,084.18	3,221.68	1,050.00	769.73	280.27	3.746		
17,200.00	7,730.00	17,374.37	7,480.00	144.00	146.55	-76.23	-7,184.18	3,221.34	1,050.00	766.43	283.57	3.703		
17,300.00	7,730.00	17,474.37	7,480.00	145.69	148.19	-76.23	-7,284.18	3,221.00	1,050.00	763.13	286.87	3.660		
17,400.00	7,730.00	17,574.37	7,480.00	147.37	149.84	-76.23	-7,384.18	3,220.66	1,050.00	759.83	290.17	3.619		
17,500.00	7,730.00	17,674.37	7,480.00	149.06	151.50	-76.23	-7,484.18	3,220.32	1,050.00	756.52	293.48	3.578		
17,600.00	7,730.00	17,774.37	7,480.00	150.75	153.15	-76.23	-7,584.18	3,219.99	1,050.01	753.21	296.79	3.538		
17,700.00	7,730.00	17,874.37	7,480.00	152.44	154.81	-76.23	-7,684.18	3,219.65	1,050.01	749.90	300.11	3.499		
17,800.00	7,730.00	17,974.37	7,480.00	154.13	156.47	-76.23	-7,784.18	3,219.31	1,050.01	746.58	303.42	3.461		
17,900.00	7,730.00	18,074.37	7,480.00	155.83	158.13	-76.23	-7,884.18	3,218.97	1,050.01	743.27	306.75	3.423		
18,000.00	7,730.00	18,174.37	7,480.00	157.52	159.79	-76.23	-7,984.18	3,218.63	1,050.01	739.94	310.07	3.386		
18,100.00	7,730.00	18,274.37	7,480.00	159.22	161.46	-76.23	-8,084.18	3,218.29	1,050.02	736.62	313.40	3.350		
18,200.00	7,730.00	18,374.37	7,480.00	160.92	163.13	-76.23	-8,184.17	3,217.95	1,050.02	733.29	316.73	3.315		
18,300.00	7,730.00	18,474.37	7,480.00	162.62	164.80	-76.23	-8,284.17	3,217.61	1,050.02	729.96	320.06	3.281		
18,400.00	7,730.00	18,574.37	7,480.00	164.32	166.47	-76.23	-8,384.17	3,217.27	1,050.02	726.63	323.39	3.247		
18,426.22	7,730.00	18,600.59	7,480.00	164.76	166.91	-76.23	-8,410.39	3,217.18	1,050.02	725.75	324.27	3.238 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	90.00	0.00	40.04	40.04					
100.00	100.00	101.00	99.00	0.13	0.14	90.00	0.00	40.04	40.04	39.77	0.27	146.970		
200.00	200.00	201.00	199.00	0.49	0.50	90.00	0.00	40.04	40.04	39.05	0.99	40.470		
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	40.04	40.04	38.33	1.71	23.466		
400.00	400.00	401.00	399.00	1.21	1.21	90.00	0.00	40.04	40.04	37.62	2.42	16.523		
500.00	500.00	501.00	499.00	1.57	1.57	90.00	0.00	40.04	40.04	36.90	3.14	12.751		
600.00	600.00	601.00	599.00	1.93	1.93	90.00	0.00	40.04	40.04	36.18	3.86	10.381		
700.00	700.00	701.00	699.00	2.29	2.29	90.00	0.00	40.04	40.04	35.47	4.57	8.754		
800.00	800.00	799.00	799.00	2.64	2.64	90.00	0.00	40.04	40.04	34.76	5.28	7.578 CC, ES		
900.00	900.00	897.78	897.76	3.00	2.99	88.83	0.84	41.48	41.51	35.52	5.99	6.928		
1,000.00	1,000.00	996.32	996.17	3.36	3.34	85.75	3.40	45.84	46.05	39.36	6.69	6.884		
1,100.00	1,100.00	1,094.40	1,093.88	3.72	3.69	81.80	7.65	53.07	53.87	46.49	7.38	7.298		
1,200.00	1,200.00	1,191.79	1,190.57	4.08	4.05	77.89	13.54	63.11	65.09	57.03	8.06	8.072		
1,300.00	1,299.98	1,288.54	1,286.17	4.43	4.42	27.84	21.04	75.88	78.25	69.52	8.73	8.963		
1,400.00	1,399.84	1,384.84	1,380.78	4.79	4.81	26.19	30.12	91.34	91.68	82.29	9.38	9.769		
1,500.00	1,499.45	1,480.69	1,474.31	5.15	5.22	25.33	40.75	109.45	105.27	95.24	10.03	10.497		
1,600.00	1,598.70	1,576.11	1,566.65	5.51	5.66	25.00	52.90	130.15	118.97	108.30	10.67	11.147		
1,700.00	1,697.47	1,671.09	1,657.73	5.89	6.13	25.02	66.53	153.37	132.74	121.43	11.31	11.733		
1,800.00	1,795.62	1,765.63	1,747.45	6.28	6.64	25.30	81.61	179.06	146.58	134.63	11.96	12.261		
1,900.00	1,893.06	1,859.75	1,835.74	6.69	7.19	25.76	98.10	207.16	160.48	147.88	12.60	12.734		
2,000.00	1,989.64	1,953.43	1,922.52	7.13	7.78	26.36	115.97	237.60	174.44	161.18	13.26	13.154		
2,100.00	2,085.27	2,046.71	2,007.73	7.61	8.41	27.06	135.17	270.32	188.47	174.53	13.94	13.523		
2,200.00	2,179.82	2,139.56	2,091.28	8.12	9.09	27.83	155.68	305.25	202.56	187.92	14.64	13.839		
2,300.00	2,273.17	2,232.02	2,173.12	8.67	9.83	28.67	177.45	342.33	216.72	201.35	15.37	14.102		
2,400.00	2,365.21	2,324.07	2,253.19	9.27	10.61	29.54	200.44	381.49	230.96	214.82	16.14	14.309		
2,500.00	2,455.84	2,415.73	2,331.42	9.92	11.45	30.45	224.61	422.67	245.29	228.32	16.97	14.458		
2,580.62	2,527.80	2,489.35	2,393.13	10.49	12.16	31.20	244.94	457.30	256.90	239.23	17.67	14.536		
2,600.00	2,544.97	2,507.21	2,407.94	10.63	12.34	31.41	249.99	465.90	259.76	241.91	17.85	14.550		
2,700.00	2,633.58	2,605.96	2,489.72	11.37	13.34	32.46	278.01	513.63	274.76	255.76	19.00	14.460		
2,800.00	2,722.19	2,704.71	2,571.50	12.13	14.37	33.40	306.03	561.37	289.84	269.65	20.19	14.354		
2,900.00	2,810.80	2,803.45	2,653.27	12.91	15.41	34.25	334.05	609.10	305.00	283.57	21.42	14.238		
3,000.00	2,899.41	2,902.20	2,735.05	13.71	16.46	35.02	362.07	656.84	320.21	297.52	22.68	14.116		
3,100.00	2,988.02	3,000.95	2,816.83	14.52	17.53	35.72	390.09	704.57	335.47	311.50	23.97	13.993		
3,200.00	3,076.63	3,100.30	2,898.61	15.34	18.60	36.36	418.11	752.31	350.78	325.49	25.29	13.868		
3,300.00	3,165.24	3,201.55	2,980.38	16.16	19.71	36.95	446.13	800.04	366.13	339.48	26.65	13.739		
3,400.00	3,253.85	3,302.80	3,062.16	17.00	20.82	37.49	474.15	847.77	381.51	353.48	28.02	13.613		
3,500.00	3,342.46	3,404.05	3,143.94	17.84	21.94	37.99	502.17	895.51	396.92	367.50	29.42	13.492		
3,600.00	3,431.07	3,505.30	3,225.72	18.69	23.06	38.44	530.19	943.24	412.36	381.53	30.83	13.377		
3,700.00	3,519.68	3,606.56	3,307.49	19.55	24.19	38.87	558.21	990.98	427.82	395.57	32.25	13.266		
3,800.00	3,608.29	3,707.81	3,389.27	20.40	25.32	39.27	586.24	1,038.71	443.31	409.62	33.69	13.160		
3,900.00	3,696.90	3,809.06	3,471.05	21.26	26.45	39.64	614.26	1,086.45	458.81	423.68	35.13	13.059		
4,000.00	3,785.51	3,889.69	3,552.83	22.13	27.36	39.98	642.28	1,134.18	474.34	437.89	36.45	13.014		
4,100.00	3,874.12	3,988.44	3,634.60	23.00	28.47	40.31	670.30	1,181.91	489.87	451.98	37.90	12.927		
4,200.00	3,962.73	4,087.19	3,716.38	23.87	29.58	40.61	698.32	1,229.65	505.43	466.07	39.35	12.844		
4,300.00	4,051.34	4,185.94	3,798.16	24.74	30.69	40.90	726.34	1,277.38	520.99	480.17	40.82	12.764		
4,400.00	4,139.95	4,284.69	3,879.94	25.62	31.80	41.17	754.36	1,325.12	536.57	494.28	42.29	12.689		
4,500.00	4,228.56	4,383.43	3,961.72	26.49	32.92	41.42	782.38	1,372.85	552.16	508.39	43.76	12.617		
4,600.00	4,317.17	4,482.18	4,043.49	27.37	34.04	41.66	810.40	1,420.59	567.75	522.51	45.25	12.548		
4,700.00	4,405.78	4,580.93	4,125.27	28.25	35.15	41.89	838.42	1,468.32	583.36	536.63	46.73	12.483		
4,800.00	4,494.39	4,679.68	4,207.05	29.13	36.27	42.11	866.44	1,516.06	598.98	550.75	48.22	12.421		
4,900.00	4,583.00	4,778.43	4,288.83	30.02	37.39	42.31	894.46	1,563.79	614.60	564.88	49.72	12.361		
5,000.00	4,671.61	4,877.18	4,370.60	30.90	38.51	42.50	922.49	1,611.52	630.23	579.01	51.22	12.304		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,975.93	4,452.38	31.79	39.64	42.69	950.51	1,659.26	645.87	593.15	52.72	12.250		
5,200.00	4,848.83	5,074.68	4,534.16	32.67	40.76	42.87	978.53	1,706.99	661.51	607.28	54.23	12.198		
5,300.00	4,937.44	5,173.43	4,615.94	33.56	41.88	43.03	1,006.55	1,754.73	677.16	621.42	55.74	12.148		
5,400.00	5,026.05	5,272.17	4,697.71	34.45	43.01	43.19	1,034.57	1,802.46	692.82	635.56	57.25	12.101		
5,500.00	5,114.66	5,370.92	4,779.49	35.34	44.13	43.35	1,062.59	1,850.20	708.48	649.71	58.77	12.055		
5,600.00	5,203.27	5,469.67	4,861.27	36.23	45.26	43.49	1,090.61	1,897.93	724.14	663.86	60.29	12.011		
5,700.00	5,291.88	5,568.42	4,943.05	37.12	46.38	43.64	1,118.63	1,945.67	739.81	678.00	61.81	11.969		
5,800.00	5,380.50	5,667.17	5,024.82	38.01	47.51	43.77	1,146.65	1,993.40	755.49	692.16	63.33	11.929		
5,900.00	5,469.11	5,765.92	5,106.60	38.90	48.63	43.90	1,174.67	2,041.13	771.16	706.31	64.86	11.890		
6,000.00	5,557.72	5,864.67	5,188.38	39.79	49.76	44.02	1,202.69	2,088.87	786.85	720.46	66.38	11.853		
6,100.00	5,646.33	5,963.42	5,270.16	40.68	50.89	44.14	1,230.71	2,136.60	802.53	734.62	67.91	11.817		
6,200.00	5,734.94	6,062.16	5,351.93	41.58	52.01	44.26	1,258.74	2,184.34	818.22	748.78	69.44	11.783		
6,300.00	5,823.55	6,160.91	5,433.71	42.47	53.14	44.37	1,286.76	2,232.07	833.91	762.94	70.97	11.750		
6,400.00	5,912.16	6,259.66	5,515.49	43.36	54.27	44.47	1,314.78	2,279.81	849.60	777.10	72.51	11.718		
6,500.00	6,000.77	6,358.41	5,597.27	44.26	55.40	44.58	1,342.80	2,327.54	865.30	791.26	74.04	11.687		
6,600.00	6,089.38	6,457.16	5,679.05	45.15	56.53	44.68	1,370.82	2,375.28	881.00	805.42	75.58	11.657		
6,700.00	6,177.99	6,555.91	5,760.82	46.05	57.66	44.77	1,398.84	2,423.01	896.70	819.59	77.11	11.628		
6,800.00	6,266.60	6,654.66	5,842.60	46.94	58.78	44.86	1,426.86	2,470.74	912.40	833.75	78.65	11.600		
6,900.00	6,355.21	6,753.41	5,924.38	47.84	59.91	44.95	1,454.88	2,518.48	928.11	847.92	80.19	11.574		
7,000.00	6,443.82	6,852.15	6,006.16	48.74	61.04	45.04	1,482.90	2,566.21	943.82	862.09	81.73	11.548		
7,100.00	6,532.43	6,950.90	6,087.93	49.63	62.17	45.12	1,510.92	2,613.95	959.53	876.26	83.27	11.523		
7,200.00	6,621.04	7,049.65	6,169.71	50.53	63.30	45.20	1,538.94	2,661.68	975.24	890.43	84.82	11.498		
7,300.00	6,709.65	7,148.40	6,251.49	51.42	64.43	45.28	1,566.96	2,709.42	990.96	904.60	86.36	11.475		
7,400.00	6,798.26	7,247.15	6,333.27	52.32	65.56	45.36	1,594.99	2,757.15	1,006.67	918.77	87.90	11.452		
7,500.00	6,886.87	7,345.90	6,415.04	53.22	66.69	45.43	1,623.01	2,804.89	1,022.39	932.94	89.45	11.430		
7,600.00	6,975.48	7,444.65	6,496.82	54.12	67.82	45.50	1,651.03	2,852.62	1,038.11	947.11	91.00	11.408		
7,656.30	7,025.36	7,500.24	6,542.86	54.62	68.46	45.54	1,666.80	2,879.49	1,046.96	955.09	91.87	11.397		
7,700.00	7,064.54	7,543.40	6,578.60	55.00	68.95	39.00	1,679.05	2,900.36	1,053.65	961.22	92.44	11.399		
7,750.00	7,110.29	7,592.58	6,619.33	55.40	69.52	29.40	1,693.00	2,924.13	1,060.87	968.05	92.82	11.429		
7,800.00	7,156.67	7,641.17	6,659.57	55.75	70.07	17.67	1,706.79	2,947.62	1,067.62	974.69	92.92	11.490		
7,850.00	7,203.34	7,688.82	6,699.03	56.05	70.62	4.64	1,720.32	2,970.65	1,073.96	981.23	92.73	11.582		
7,900.00	7,249.95	7,735.16	6,737.41	56.30	71.15	-8.34	1,733.46	2,993.05	1,080.00	987.75	92.25	11.707		
7,950.00	7,296.14	7,779.84	6,774.41	56.50	71.66	-20.06	1,746.14	3,014.65	1,085.90	994.40	91.50	11.867		
8,000.00	7,341.56	7,822.51	6,809.75	56.64	72.15	-29.92	1,758.25	3,035.28	1,091.84	1,001.35	90.49	12.066		
8,050.00	7,385.86	7,862.86	6,843.16	56.74	72.61	-37.92	1,769.70	3,054.78	1,098.01	1,008.77	89.24	12.304		
8,100.00	7,428.71	7,900.57	6,874.39	56.79	73.05	-44.32	1,780.40	3,073.01	1,104.65	1,016.87	87.79	12.583		
8,150.00	7,469.77	7,935.36	6,903.20	56.80	73.44	-49.40	1,790.27	3,089.83	1,111.98	1,025.81	86.16	12.906		
8,200.00	7,508.75	7,966.96	6,929.37	56.77	73.81	-53.39	1,799.24	3,105.10	1,120.20	1,035.78	84.42	13.270		
8,250.00	7,545.33	7,995.14	6,952.70	56.70	74.13	-56.45	1,807.23	3,118.72	1,129.52	1,046.91	82.61	13.673		
8,300.00	7,579.25	8,019.67	6,973.02	56.59	74.41	-58.72	1,814.20	3,130.58	1,140.10	1,059.31	80.80	14.111		
8,350.00	7,610.24	8,040.38	6,990.17	56.45	74.65	-60.25	1,820.07	3,140.59	1,152.07	1,073.03	79.05	14.575		
8,400.00	7,638.06	8,057.10	7,004.01	56.28	74.84	-61.11	1,824.82	3,148.67	1,165.50	1,088.08	77.42	15.054		
8,450.00	7,662.52	8,069.70	7,014.45	56.09	74.98	-61.32	1,828.39	3,154.77	1,180.41	1,104.43	75.98	15.536		
8,500.00	7,683.41	8,078.10	7,021.41	55.88	75.08	-60.93	1,830.78	3,158.83	1,196.76	1,122.00	74.77	16.006		
8,550.00	7,700.59	8,082.22	7,024.82	55.64	75.13	-59.95	1,831.95	3,160.82	1,214.47	1,140.65	73.82	16.452		
8,600.00	7,713.91	8,082.04	7,024.67	55.39	75.12	-58.44	1,831.89	3,160.73	1,233.39	1,160.24	73.15	16.861		
8,650.00	7,723.29	8,077.56	7,020.96	55.14	75.07	-56.43	1,830.62	3,158.57	1,253.32	1,180.56	72.76	17.226		
8,700.00	7,728.64	8,068.81	7,013.71	54.87	74.97	-53.99	1,828.14	3,154.34	1,274.01	1,201.38	72.63	17.541		
8,740.83	7,730.00	8,058.54	7,005.21	54.65	74.86	-51.72	1,825.23	3,149.37	1,291.29	1,218.59	72.70	17.763		
8,800.00	7,730.00	8,041.65	6,991.23	54.33	74.66	-50.94	1,820.43	3,141.21	1,317.47	1,244.42	73.05	18.035		
8,900.00	7,730.00	9,421.57	7,730.00	53.82	78.18	-90.04	1,114.71	3,569.20	1,339.37	1,256.26	83.11	16.115		
9,000.00	7,730.00	9,521.57	7,730.00	53.33	77.81	-90.04	1,014.71	3,568.87	1,339.37	1,257.10	82.27	16.280		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	9,621.57	7,730.00	52.87	77.46	-90.04	914.71	3,568.53	1,339.37	1,257.80	81.58	16.418		
9,200.00	7,730.00	9,721.57	7,730.00	52.44	77.12	-90.04	814.71	3,568.19	1,339.38	1,258.35	81.03	16.529		
9,300.00	7,730.00	9,821.57	7,730.00	52.03	76.81	-90.04	714.71	3,567.85	1,339.38	1,258.74	80.64	16.610		
9,400.00	7,730.00	9,921.57	7,730.00	51.65	76.52	-90.04	614.71	3,567.52	1,339.38	1,258.99	80.40	16.659		
9,500.00	7,730.00	10,021.57	7,730.00	51.29	76.24	-90.04	514.71	3,567.18	1,339.39	1,259.07	80.31	16.677		
9,600.00	7,730.00	10,121.57	7,730.00	50.95	75.98	-90.04	414.71	3,566.84	1,339.39	1,259.01	80.38	16.662		
9,700.00	7,730.00	10,221.57	7,730.00	50.64	75.74	-90.04	314.71	3,566.50	1,339.40	1,258.78	80.61	16.615		
9,800.00	7,730.00	10,321.57	7,730.00	50.35	75.52	-90.04	214.71	3,566.17	1,339.40	1,258.41	80.99	16.537		
9,900.00	7,730.00	10,421.57	7,730.00	50.09	75.32	-90.04	114.71	3,565.83	1,339.40	1,257.88	81.52	16.429		
10,000.00	7,730.00	10,521.57	7,730.00	49.86	75.14	-90.04	14.71	3,565.49	1,339.41	1,257.20	82.21	16.293		
10,100.00	7,730.00	10,621.57	7,730.00	49.65	74.98	-90.04	-85.28	3,565.15	1,339.41	1,256.38	83.03	16.131		
10,200.00	7,730.00	10,721.57	7,730.00	49.48	74.83	-90.04	-185.28	3,564.82	1,339.41	1,255.41	84.00	15.946		
10,300.00	7,730.00	10,821.57	7,730.00	49.35	74.72	-90.04	-285.28	3,564.48	1,339.42	1,254.31	85.10	15.739		
10,400.00	7,730.00	10,921.57	7,730.00	49.27	74.62	-90.04	-385.28	3,564.14	1,339.42	1,253.08	86.34	15.514		
10,500.00	7,730.00	11,021.57	7,730.00	49.26	74.54	-90.04	-485.28	3,563.80	1,339.42	1,251.73	87.69	15.274		
10,600.00	7,730.00	11,121.57	7,730.00	49.32	74.50	-90.04	-585.28	3,563.47	1,339.43	1,250.25	89.17	15.021		
10,700.00	7,730.00	11,221.57	7,730.00	49.51	74.47	-90.04	-685.28	3,563.13	1,339.43	1,248.67	90.76	14.757		
10,800.00	7,730.00	11,321.57	7,730.00	49.83	74.48	-90.04	-785.28	3,562.79	1,339.43	1,246.97	92.46	14.486		
10,900.00	7,730.00	11,421.57	7,730.00	50.31	74.51	-90.04	-885.28	3,562.45	1,339.44	1,245.17	94.27	14.209		
11,000.00	7,730.00	11,521.57	7,730.00	50.96	74.58	-90.04	-985.28	3,562.12	1,339.44	1,243.28	96.16	13.929		
11,100.00	7,730.00	11,621.57	7,730.00	51.75	74.68	-90.04	-1,085.28	3,561.78	1,339.44	1,241.29	98.15	13.647		
11,200.00	7,730.00	11,721.57	7,730.00	52.66	74.82	-90.04	-1,185.28	3,561.44	1,339.45	1,239.22	100.22	13.364		
11,300.00	7,730.00	11,821.57	7,730.00	53.67	75.00	-90.04	-1,285.28	3,561.10	1,339.45	1,237.07	102.38	13.083		
11,400.00	7,730.00	11,921.57	7,730.00	54.75	75.22	-90.04	-1,385.28	3,560.77	1,339.45	1,234.85	104.61	12.805		
11,500.00	7,730.00	12,021.57	7,730.00	55.89	75.49	-90.04	-1,485.28	3,560.43	1,339.46	1,232.55	106.90	12.530		
11,600.00	7,730.00	12,121.57	7,730.00	57.07	75.81	-90.04	-1,585.28	3,560.09	1,339.46	1,230.19	109.27	12.259		
11,700.00	7,730.00	12,221.57	7,730.00	58.30	76.18	-90.04	-1,685.28	3,559.75	1,339.46	1,227.77	111.69	11.992		
11,800.00	7,730.00	12,321.57	7,730.00	59.55	76.60	-90.04	-1,785.27	3,559.42	1,339.47	1,225.29	114.18	11.731		
11,900.00	7,730.00	12,421.57	7,730.00	60.84	77.08	-90.04	-1,885.27	3,559.08	1,339.47	1,222.76	116.72	11.476		
12,000.00	7,730.00	12,521.57	7,730.00	62.15	77.62	-90.04	-1,985.27	3,558.74	1,339.47	1,220.17	119.30	11.227		
12,100.00	7,730.00	12,621.57	7,730.00	63.49	78.23	-90.04	-2,085.27	3,558.40	1,339.48	1,217.54	121.94	10.985		
12,200.00	7,730.00	12,721.57	7,730.00	64.85	78.89	-90.04	-2,185.27	3,558.07	1,339.48	1,214.86	124.62	10.749		
12,300.00	7,730.00	12,821.57	7,730.00	66.22	79.61	-90.04	-2,285.27	3,557.73	1,339.48	1,212.14	127.34	10.519		
12,400.00	7,730.00	12,921.57	7,730.00	67.62	80.40	-90.04	-2,385.27	3,557.39	1,339.49	1,209.39	130.10	10.296		
12,500.00	7,730.00	13,021.57	7,730.00	69.03	81.24	-90.04	-2,485.27	3,557.05	1,339.49	1,206.59	132.90	10.079		
12,600.00	7,730.00	13,121.57	7,730.00	70.45	82.13	-90.04	-2,585.27	3,556.72	1,339.50	1,203.76	135.73	9.869		
12,700.00	7,730.00	13,221.57	7,730.00	71.90	83.08	-90.04	-2,685.27	3,556.38	1,339.50	1,200.90	138.60	9.665		
12,800.00	7,730.00	13,321.57	7,730.00	73.35	84.08	-90.04	-2,785.27	3,556.04	1,339.50	1,198.01	141.49	9.467		
12,900.00	7,730.00	13,421.57	7,730.00	74.81	85.12	-90.04	-2,885.27	3,555.70	1,339.51	1,195.09	144.41	9.275		
13,000.00	7,730.00	13,521.57	7,730.00	76.29	86.21	-90.04	-2,985.27	3,555.37	1,339.51	1,192.15	147.36	9.090		
13,100.00	7,730.00	13,621.57	7,730.00	77.78	87.34	-90.04	-3,085.27	3,555.03	1,339.51	1,189.17	150.34	8.910		
13,200.00	7,730.00	13,721.57	7,730.00	79.28	88.50	-90.04	-3,185.27	3,554.69	1,339.52	1,186.18	153.34	8.736		
13,300.00	7,730.00	13,821.57	7,730.00	80.79	89.70	-90.04	-3,285.27	3,554.35	1,339.52	1,183.16	156.36	8.567		
13,400.00	7,730.00	13,921.57	7,730.00	82.31	90.93	-90.04	-3,385.27	3,554.02	1,339.52	1,180.12	159.40	8.404		
13,500.00	7,730.00	14,021.57	7,730.00	83.84	92.19	-90.04	-3,485.27	3,553.68	1,339.53	1,177.06	162.46	8.245		
13,600.00	7,730.00	14,121.57	7,730.00	85.37	93.47	-90.04	-3,585.26	3,553.34	1,339.53	1,173.99	165.54	8.092		
13,700.00	7,730.00	14,221.57	7,730.00	86.92	94.78	-90.04	-3,685.26	3,553.00	1,339.53	1,170.89	168.64	7.943		
13,800.00	7,730.00	14,321.57	7,730.00	88.47	96.11	-90.04	-3,785.26	3,552.67	1,339.54	1,167.78	171.76	7.799		
13,900.00	7,730.00	14,421.57	7,730.00	90.03	97.47	-90.04	-3,885.26	3,552.33	1,339.54	1,164.65	174.89	7.659		
14,000.00	7,730.00	14,521.57	7,730.00	91.59	98.84	-90.04	-3,985.26	3,551.99	1,339.54	1,161.51	178.03	7.524		
14,100.00	7,730.00	14,621.57	7,730.00	93.16	100.22	-90.04	-4,085.26	3,551.65	1,339.55	1,158.35	181.19	7.393		
14,200.00	7,730.00	14,721.57	7,730.00	94.74	101.63	-90.04	-4,185.26	3,551.32	1,339.55	1,155.18	184.37	7.266		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	14,821.57	7,730.00	96.33	103.05	-90.04	-4,285.26	3,550.98	1,339.55	1,152.00	187.56	7.142		
14,400.00	7,730.00	14,921.57	7,730.00	97.92	104.48	-90.04	-4,385.26	3,550.64	1,339.56	1,148.80	190.76	7.022		
14,500.00	7,730.00	15,021.57	7,730.00	99.51	105.93	-90.04	-4,485.26	3,550.30	1,339.56	1,145.59	193.97	6.906		
14,600.00	7,730.00	15,121.57	7,730.00	101.11	107.39	-90.04	-4,585.26	3,549.97	1,339.56	1,142.38	197.19	6.793		
14,700.00	7,730.00	15,221.57	7,730.00	102.72	108.86	-90.04	-4,685.26	3,549.63	1,339.57	1,139.15	200.42	6.684		
14,800.00	7,730.00	15,321.57	7,730.00	104.33	110.34	-90.04	-4,785.26	3,549.29	1,339.57	1,135.91	203.66	6.577		
14,900.00	7,730.00	15,421.57	7,730.00	105.94	111.83	-90.04	-4,885.26	3,548.95	1,339.57	1,132.66	206.92	6.474		
15,000.00	7,730.00	15,521.57	7,730.00	107.56	113.33	-90.04	-4,985.26	3,548.62	1,339.58	1,129.40	210.18	6.374		
15,100.00	7,730.00	15,621.57	7,730.00	109.18	114.84	-90.04	-5,085.26	3,548.28	1,339.58	1,126.13	213.45	6.276		
15,200.00	7,730.00	15,721.57	7,730.00	110.81	116.36	-90.04	-5,185.26	3,547.94	1,339.58	1,122.86	216.73	6.181		
15,300.00	7,730.00	15,821.57	7,730.00	112.44	117.89	-90.04	-5,285.25	3,547.60	1,339.59	1,119.58	220.01	6.089		
15,400.00	7,730.00	15,921.57	7,730.00	114.08	119.42	-90.04	-5,385.25	3,547.27	1,339.59	1,116.29	223.31	5.999		
15,500.00	7,730.00	16,021.57	7,730.00	115.72	120.97	-90.04	-5,485.25	3,546.93	1,339.59	1,112.99	226.61	5.912		
15,600.00	7,730.00	16,121.57	7,730.00	117.36	122.52	-90.04	-5,585.25	3,546.59	1,339.60	1,109.68	229.91	5.827		
15,700.00	7,730.00	16,221.57	7,730.00	119.00	124.07	-90.04	-5,685.25	3,546.25	1,339.60	1,106.37	233.23	5.744		
15,800.00	7,730.00	16,321.57	7,730.00	120.65	125.63	-90.04	-5,785.25	3,545.92	1,339.61	1,103.06	236.55	5.663		
15,900.00	7,730.00	16,421.57	7,730.00	122.30	127.20	-90.04	-5,885.25	3,545.58	1,339.61	1,099.73	239.88	5.585		
16,000.00	7,730.00	16,521.57	7,730.00	123.96	128.77	-90.04	-5,985.25	3,545.24	1,339.61	1,096.40	243.21	5.508		
16,100.00	7,730.00	16,621.57	7,730.00	125.61	130.35	-90.04	-6,085.25	3,544.90	1,339.62	1,093.07	246.55	5.433		
16,200.00	7,730.00	16,721.57	7,730.00	127.27	131.93	-90.04	-6,185.25	3,544.57	1,339.62	1,089.73	249.89	5.361		
16,300.00	7,730.00	16,821.57	7,730.00	128.94	133.52	-90.04	-6,285.25	3,544.23	1,339.62	1,086.38	253.24	5.290		
16,400.00	7,730.00	16,921.57	7,730.00	130.60	135.11	-90.04	-6,385.25	3,543.89	1,339.63	1,083.03	256.60	5.221		
16,500.00	7,730.00	17,021.57	7,730.00	132.27	136.71	-90.04	-6,485.25	3,543.55	1,339.63	1,079.67	259.95	5.153		
16,600.00	7,730.00	17,121.57	7,730.00	133.94	138.31	-90.04	-6,585.25	3,543.22	1,339.63	1,076.31	263.32	5.088		
16,700.00	7,730.00	17,221.57	7,730.00	135.61	139.92	-90.04	-6,685.25	3,542.88	1,339.64	1,072.95	266.69	5.023		
16,800.00	7,730.00	17,321.57	7,730.00	137.28	141.53	-90.04	-6,785.25	3,542.54	1,339.64	1,069.58	270.06	4.961		
16,900.00	7,730.00	17,421.57	7,730.00	138.96	143.14	-90.04	-6,885.25	3,542.20	1,339.64	1,066.21	273.43	4.899		
17,000.00	7,730.00	17,521.57	7,730.00	140.64	144.76	-90.04	-6,985.25	3,541.87	1,339.65	1,062.83	276.81	4.840		
17,100.00	7,730.00	17,621.57	7,730.00	142.32	146.38	-90.04	-7,085.24	3,541.53	1,339.65	1,059.45	280.20	4.781		
17,200.00	7,730.00	17,721.57	7,730.00	144.00	148.00	-90.04	-7,185.24	3,541.19	1,339.65	1,056.07	283.59	4.724		
17,300.00	7,730.00	17,821.57	7,730.00	145.69	149.63	-90.04	-7,285.24	3,540.85	1,339.66	1,052.68	286.98	4.668		
17,400.00	7,730.00	17,921.57	7,730.00	147.37	151.26	-90.04	-7,385.24	3,540.52	1,339.66	1,049.29	290.37	4.614		
17,500.00	7,730.00	18,021.57	7,730.00	149.06	152.90	-90.04	-7,485.24	3,540.18	1,339.66	1,045.89	293.77	4.560		
17,600.00	7,730.00	18,121.57	7,730.00	150.75	154.53	-90.04	-7,585.24	3,539.84	1,339.67	1,042.50	297.17	4.508		
17,700.00	7,730.00	18,221.57	7,730.00	152.44	156.17	-90.04	-7,685.24	3,539.50	1,339.67	1,039.10	300.58	4.457		
17,800.00	7,730.00	18,321.57	7,730.00	154.13	157.82	-90.04	-7,785.24	3,539.17	1,339.67	1,035.69	303.98	4.407		
17,900.00	7,730.00	18,421.57	7,730.00	155.83	159.46	-90.04	-7,885.24	3,538.83	1,339.68	1,032.29	307.39	4.358		
18,000.00	7,730.00	18,521.57	7,730.00	157.52	161.11	-90.04	-7,985.24	3,538.49	1,339.68	1,028.88	310.81	4.310		
18,100.00	7,730.00	18,621.57	7,730.00	159.22	162.76	-90.04	-8,085.24	3,538.15	1,339.68	1,025.46	314.22	4.264		
18,200.00	7,730.00	18,721.57	7,730.00	160.92	164.41	-90.04	-8,185.24	3,537.82	1,339.69	1,022.05	317.64	4.218		
18,300.00	7,730.00	18,821.57	7,730.00	162.62	166.06	-90.04	-8,285.24	3,537.48	1,339.69	1,018.63	321.06	4.173		
18,400.00	7,730.00	18,921.57	7,730.00	164.32	167.72	-90.04	-8,385.24	3,537.14	1,339.69	1,015.21	324.48	4.129		
18,400.48	7,730.00	18,922.05	7,730.00	164.33	167.73	-90.04	-8,385.72	3,537.14	1,339.69	1,015.20	324.50	4.129		
18,426.22	7,730.00	18,942.39	7,730.00	164.76	168.07	-90.04	-8,406.05	3,537.07	1,339.71	1,014.16	325.54	4.115 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	90.42	-0.36	50.12	50.12					
100.00	100.00	101.00	99.00	0.13	0.14	90.42	-0.36	50.12	50.12	49.85	0.27	183.975		
200.00	200.00	201.00	199.00	0.49	0.50	90.42	-0.36	50.12	50.12	49.13	0.99	50.660		
300.00	300.00	301.00	299.00	0.85	0.85	90.42	-0.36	50.12	50.12	48.42	1.71	29.374		
400.00	400.00	401.00	399.00	1.21	1.21	90.42	-0.36	50.12	50.12	47.70	2.42	20.684		
500.00	500.00	501.00	499.00	1.57	1.57	90.42	-0.36	50.12	50.12	46.98	3.14	15.961		
600.00	600.00	601.00	599.00	1.93	1.93	90.42	-0.36	50.12	50.12	46.26	3.86	12.995		
700.00	700.00	699.00	699.00	2.29	2.28	90.42	-0.36	50.12	50.12	45.55	4.57	10.975 CC, ES		
800.00	800.00	797.47	797.45	2.64	2.63	89.53	0.42	51.58	51.61	46.33	5.27	9.787		
900.00	900.00	895.69	895.53	3.00	2.98	87.14	2.79	56.01	56.18	50.21	5.97	9.408		
1,000.00	1,000.00	993.45	992.93	3.36	3.33	83.93	6.73	63.35	64.00	57.33	6.66	9.602		
1,100.00	1,100.00	1,090.53	1,089.32	3.72	3.69	80.58	12.20	73.54	75.17	67.82	7.35	10.228		
1,200.00	1,200.00	1,186.72	1,184.38	4.08	4.06	77.52	19.14	86.47	89.76	81.73	8.02	11.186		
1,300.00	1,299.98	1,282.12	1,278.12	4.43	4.45	28.07	27.50	102.06	106.22	97.54	8.68	12.233		
1,400.00	1,399.84	1,376.98	1,370.70	4.79	4.86	26.74	37.28	120.28	122.93	113.61	9.33	13.181		
1,500.00	1,499.45	1,471.31	1,462.02	5.15	5.30	26.05	48.43	141.07	139.78	129.81	9.97	14.024		
1,600.00	1,598.70	1,565.11	1,552.02	5.51	5.77	25.79	60.92	164.35	156.72	146.11	10.60	14.779		
1,700.00	1,697.47	1,658.38	1,640.60	5.89	6.28	25.83	74.72	190.07	173.71	162.47	11.24	15.455		
1,800.00	1,795.62	1,751.13	1,727.71	6.28	6.83	26.09	89.79	218.15	190.74	178.87	11.88	16.060		
1,900.00	1,893.06	1,843.38	1,813.26	6.69	7.41	26.50	106.08	248.53	207.82	195.29	12.52	16.597		
2,000.00	1,989.64	1,935.11	1,897.20	7.13	8.04	27.04	123.57	281.13	224.93	211.75	13.18	17.069		
2,100.00	2,085.27	2,026.35	1,979.47	7.61	8.72	27.66	142.22	315.88	242.07	228.22	13.85	17.478		
2,200.00	2,179.82	2,117.10	2,060.01	8.12	9.45	28.36	161.99	352.72	259.27	244.72	14.55	17.822		
2,300.00	2,273.17	2,207.37	2,138.77	8.67	10.22	29.10	182.83	391.58	276.50	261.23	15.28	18.099		
2,400.00	2,365.21	2,297.16	2,215.70	9.27	11.04	29.89	204.73	432.39	293.79	277.75	16.05	18.308		
2,500.00	2,455.84	2,386.50	2,290.76	9.92	11.92	30.71	227.63	475.07	311.14	294.27	16.87	18.445		
2,580.62	2,527.80	2,458.19	2,349.88	10.49	12.67	31.38	246.80	510.81	325.17	307.60	17.57	18.503		
2,600.00	2,544.97	2,475.37	2,363.90	10.63	12.85	31.57	251.50	519.56	328.60	310.86	17.75	18.516		
2,700.00	2,633.58	2,569.30	2,439.78	11.37	13.88	32.50	277.67	568.34	347.61	328.81	18.80	18.487		
2,800.00	2,722.19	2,667.28	2,518.79	12.13	14.98	33.35	305.06	619.39	366.96	346.96	20.00	18.350		
2,900.00	2,810.80	2,765.25	2,597.79	12.91	16.10	34.12	332.45	670.45	386.37	365.15	21.23	18.201		
3,000.00	2,899.41	2,863.22	2,676.79	13.71	17.23	34.81	359.84	721.50	405.85	383.36	22.49	18.045		
3,100.00	2,988.02	2,961.19	2,755.80	14.52	18.37	35.45	387.23	772.55	425.38	401.60	23.78	17.888		
3,200.00	3,076.63	3,059.16	2,834.80	15.34	19.51	36.02	414.62	823.61	444.95	419.86	25.10	17.731		
3,300.00	3,165.24	3,157.13	2,913.81	16.16	20.67	36.55	442.01	874.66	464.57	438.14	26.43	17.577		
3,400.00	3,253.85	3,255.10	2,992.81	17.00	21.83	37.03	469.41	925.72	484.22	456.43	27.79	17.427		
3,500.00	3,342.46	3,353.08	3,071.81	17.84	22.99	37.48	496.80	976.77	503.90	474.74	29.16	17.282		
3,600.00	3,431.07	3,451.05	3,150.82	18.69	24.16	37.89	524.19	1,027.83	523.60	493.06	30.54	17.143		
3,700.00	3,519.68	3,549.02	3,229.82	19.55	25.33	38.27	551.58	1,078.88	543.34	511.39	31.94	17.009		
3,800.00	3,608.29	3,646.99	3,308.82	20.40	26.51	38.63	578.97	1,129.94	563.09	529.73	33.35	16.882		
3,900.00	3,696.90	3,744.96	3,387.83	21.26	27.69	38.96	606.36	1,180.99	582.86	548.08	34.78	16.760		
4,000.00	3,785.51	3,842.93	3,466.83	22.13	28.87	39.27	633.75	1,232.04	602.65	566.44	36.21	16.644		
4,100.00	3,874.12	3,940.91	3,545.84	23.00	30.05	39.56	661.15	1,283.10	622.46	584.81	37.65	16.534		
4,200.00	3,962.73	4,038.88	3,624.84	23.87	31.23	39.84	688.54	1,334.15	642.28	603.18	39.10	16.428		
4,300.00	4,051.34	4,136.85	3,703.84	24.74	32.42	40.09	715.93	1,385.21	662.11	621.56	40.55	16.328		
4,400.00	4,139.95	4,234.82	3,782.85	25.62	33.61	40.33	743.32	1,436.26	681.96	639.95	42.01	16.233		
4,500.00	4,228.56	4,332.79	3,861.85	26.49	34.80	40.56	770.71	1,487.32	701.81	658.34	43.48	16.142		
4,600.00	4,317.17	4,430.76	3,940.85	27.37	35.99	40.78	798.10	1,538.37	721.68	676.73	44.95	16.055		
4,700.00	4,405.78	4,528.74	4,019.86	28.25	37.18	40.98	825.49	1,589.43	741.56	695.13	46.43	15.972		
4,800.00	4,494.39	4,626.71	4,098.86	29.13	38.38	41.17	852.89	1,640.48	761.44	713.53	47.91	15.894		
4,900.00	4,583.00	4,724.68	4,177.87	30.02	39.57	41.36	880.28	1,691.53	781.33	731.94	49.39	15.818		
5,000.00	4,671.61	4,822.65	4,256.87	30.90	40.76	41.53	907.67	1,742.59	801.23	750.35	50.88	15.746		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,920.62	4,335.87	31.79	41.96	41.70	935.06	1,793.64	821.14	768.76	52.38	15.678		
5,200.00	4,848.83	5,018.59	4,414.88	32.67	43.16	41.86	962.45	1,844.70	841.05	787.18	53.87	15.612		
5,300.00	4,937.44	5,116.57	4,493.88	33.56	44.35	42.01	989.84	1,895.75	860.97	805.60	55.37	15.549		
5,400.00	5,026.05	5,214.54	4,572.88	34.45	45.55	42.15	1,017.23	1,946.81	880.90	824.02	56.87	15.489		
5,500.00	5,114.66	5,312.51	4,651.89	35.34	46.75	42.29	1,044.62	1,997.86	900.82	842.45	58.38	15.431		
5,600.00	5,203.27	5,410.48	4,730.89	36.23	47.95	42.42	1,072.02	2,048.91	920.76	860.87	59.88	15.376		
5,700.00	5,291.88	5,508.45	4,809.90	37.12	49.14	42.54	1,099.41	2,099.97	940.70	879.30	61.39	15.323		
5,800.00	5,380.50	5,606.42	4,888.90	38.01	50.34	42.67	1,126.80	2,151.02	960.64	897.74	62.90	15.272		
5,900.00	5,469.11	5,704.40	4,967.90	38.90	51.54	42.78	1,154.19	2,202.08	980.59	916.17	64.42	15.223		
6,000.00	5,557.72	5,802.37	5,046.91	39.79	52.74	42.89	1,181.58	2,253.13	1,000.54	934.61	65.93	15.175		
6,100.00	5,646.33	5,900.34	5,125.91	40.68	53.94	43.00	1,208.97	2,304.19	1,020.49	953.04	67.45	15.130		
6,200.00	5,734.94	5,998.31	5,204.91	41.58	55.14	43.10	1,236.36	2,355.24	1,040.45	971.48	68.97	15.086		
6,300.00	5,823.55	6,096.28	5,283.92	42.47	56.35	43.20	1,263.76	2,406.30	1,060.41	989.92	70.49	15.044		
6,400.00	5,912.16	6,194.25	5,362.92	43.36	57.55	43.30	1,291.15	2,457.35	1,080.37	1,008.36	72.01	15.004		
6,500.00	6,000.77	6,307.77	5,441.93	44.26	58.94	43.39	1,318.54	2,508.40	1,100.34	1,026.69	73.65	14.940		
6,600.00	6,089.38	6,390.20	5,520.93	45.15	59.95	43.48	1,345.93	2,559.46	1,120.30	1,045.25	75.05	14.927		
6,700.00	6,177.99	6,488.17	5,599.93	46.05	61.15	43.56	1,373.32	2,610.51	1,140.28	1,063.70	76.58	14.890		
6,800.00	6,266.60	6,586.14	5,678.94	46.94	62.36	43.64	1,400.71	2,661.57	1,160.25	1,082.14	78.10	14.855		
6,900.00	6,355.21	6,684.11	5,757.94	47.84	63.56	43.72	1,428.10	2,712.62	1,180.22	1,100.59	79.63	14.821		
7,000.00	6,443.82	6,782.08	5,836.95	48.74	64.76	43.80	1,455.50	2,763.68	1,200.20	1,119.04	81.16	14.788		
7,100.00	6,532.43	6,880.06	5,915.95	49.63	65.96	43.88	1,482.89	2,814.73	1,220.18	1,137.49	82.69	14.756		
7,200.00	6,621.04	6,978.03	5,994.95	50.53	67.17	43.95	1,510.28	2,865.79	1,240.16	1,155.94	84.22	14.726		
7,300.00	6,709.65	7,076.00	6,073.96	51.42	68.37	44.02	1,537.67	2,916.84	1,260.15	1,174.40	85.75	14.696		
7,400.00	6,798.26	7,173.97	6,152.96	52.32	69.57	44.09	1,565.06	2,967.89	1,280.13	1,192.85	87.28	14.667		
7,500.00	6,886.87	7,271.94	6,231.96	53.22	70.78	44.15	1,592.45	3,018.95	1,300.12	1,211.30	88.81	14.639		
7,600.00	6,975.48	7,369.91	6,310.97	54.12	71.98	44.21	1,619.84	3,070.00	1,320.11	1,229.76	90.35	14.611		
7,656.30	7,025.36	7,425.07	6,355.44	54.62	72.66	44.25	1,635.26	3,098.74	1,331.36	1,240.15	91.21	14.596		
7,700.00	7,064.54	7,467.89	6,389.98	55.00	73.18	37.93	1,647.24	3,121.06	1,339.96	1,248.17	91.79	14.598		
7,750.00	7,110.29	7,516.69	6,429.33	55.40	73.78	28.62	1,660.88	3,146.49	1,349.42	1,257.20	92.22	14.632		
7,800.00	7,156.67	7,564.93	6,468.23	55.75	74.38	17.24	1,674.37	3,171.63	1,358.47	1,266.06	92.41	14.700		
7,850.00	7,203.34	7,612.23	6,506.37	56.05	74.96	4.60	1,687.59	3,196.28	1,367.12	1,274.77	92.35	14.804		
7,900.00	7,249.95	7,658.24	6,543.47	56.30	75.52	-7.96	1,700.46	3,220.26	1,375.42	1,283.38	92.04	14.944		
7,950.00	7,296.14	7,702.61	6,579.25	56.50	76.07	-19.24	1,712.86	3,243.38	1,383.48	1,291.98	91.50	15.120		
8,000.00	7,341.56	7,745.00	6,613.43	56.64	76.59	-28.65	1,724.71	3,265.47	1,391.40	1,300.67	90.73	15.335		
8,050.00	7,385.86	7,785.08	6,645.76	56.74	77.08	-36.22	1,735.92	3,286.35	1,399.32	1,309.56	89.76	15.590		
8,100.00	7,428.71	7,822.56	6,675.98	56.79	77.54	-42.19	1,746.40	3,305.88	1,407.39	1,318.79	88.61	15.884		
8,150.00	7,469.77	7,857.14	6,703.87	56.80	77.97	-46.89	1,756.07	3,323.91	1,415.77	1,328.48	87.30	16.218		
8,200.00	7,508.75	7,888.57	6,729.21	56.77	78.36	-50.54	1,764.85	3,340.28	1,424.61	1,338.74	85.87	16.591		
8,250.00	7,545.33	7,916.61	6,751.82	56.70	78.70	-53.35	1,772.69	3,354.89	1,434.04	1,349.69	84.35	17.001		
8,300.00	7,579.25	7,941.03	6,771.51	56.59	79.00	-55.43	1,779.52	3,367.62	1,444.19	1,361.39	82.80	17.442		
8,350.00	7,610.24	7,961.66	6,788.15	56.45	79.25	-56.87	1,785.29	3,378.37	1,455.14	1,373.90	81.25	17.910		
8,400.00	7,638.06	7,978.34	6,801.60	56.28	79.46	-57.73	1,789.95	3,387.06	1,466.98	1,387.23	79.75	18.396		
8,450.00	7,662.52	8,009.06	6,811.76	56.09	79.84	-58.07	1,793.47	3,393.63	1,479.71	1,401.26	78.45	18.862		
8,500.00	7,683.41	8,000.64	6,818.55	55.88	79.73	-57.91	1,795.83	3,398.02	1,493.33	1,416.26	77.07	19.376		
8,550.00	7,700.59	8,003.55	6,821.93	55.64	79.77	-57.28	1,797.00	3,400.20	1,507.77	1,431.82	75.95	19.851		
8,600.00	7,713.91	8,003.46	6,821.86	55.39	79.77	-56.23	1,796.98	3,400.16	1,522.95	1,447.92	75.03	20.297		
8,650.00	7,723.29	8,000.89	6,818.35	55.14	79.74	-54.79	1,795.76	3,397.89	1,538.73	1,464.41	74.32	20.703		
8,700.00	7,728.64	8,009.48	6,811.42	54.87	79.84	-53.00	1,793.36	3,393.41	1,554.93	1,481.02	73.90	21.040		
8,740.83	7,730.00	7,980.41	6,803.27	54.65	79.48	-51.31	1,790.53	3,388.14	1,568.33	1,494.80	73.53	21.330		
8,800.00	7,730.00	7,963.76	6,789.84	54.33	79.28	-50.70	1,785.87	3,379.46	1,588.70	1,515.33	73.36	21.656		
8,900.00	7,730.00	7,935.62	6,767.15	53.82	78.93	-49.66	1,778.01	3,364.80	1,627.04	1,553.38	73.66	22.088		
9,000.00	7,730.00	7,907.49	6,744.46	53.33	78.59	-48.63	1,770.14	3,350.14	1,670.03	1,595.46	74.57	22.395		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	9,702.54	7,630.00	52.87	84.94	-86.65	913.56	3,918.49	1,692.24	1,608.18	84.06	20.131		
9,200.00	7,730.00	9,802.54	7,630.00	52.44	84.63	-86.65	813.56	3,918.16	1,692.24	1,608.67	83.57	20.250		
9,300.00	7,730.00	9,902.54	7,630.00	52.03	84.33	-86.65	713.56	3,917.82	1,692.25	1,609.02	83.22	20.334		
9,400.00	7,730.00	10,002.54	7,630.00	51.65	84.06	-86.65	613.56	3,917.48	1,692.25	1,609.22	83.03	20.382		
9,500.00	7,730.00	10,102.54	7,630.00	51.29	83.79	-86.65	513.56	3,917.15	1,692.26	1,609.28	82.98	20.393		
9,600.00	7,730.00	10,202.54	7,630.00	50.95	83.55	-86.65	413.56	3,916.81	1,692.26	1,609.17	83.09	20.367		
9,700.00	7,730.00	10,302.54	7,630.00	50.64	83.32	-86.65	313.56	3,916.48	1,692.27	1,608.92	83.34	20.305		
9,800.00	7,730.00	10,402.54	7,630.00	50.35	83.11	-86.65	213.56	3,916.14	1,692.27	1,608.53	83.75	20.207		
9,900.00	7,730.00	10,502.54	7,630.00	50.09	82.92	-86.65	113.56	3,915.80	1,692.28	1,607.98	84.30	20.075		
10,000.00	7,730.00	10,602.54	7,630.00	49.86	82.74	-86.65	13.56	3,915.47	1,692.28	1,607.29	84.99	19.911		
10,100.00	7,730.00	10,702.54	7,630.00	49.65	82.58	-86.65	-86.44	3,915.13	1,692.29	1,606.46	85.83	19.718		
10,200.00	7,730.00	10,802.54	7,630.00	49.48	82.44	-86.65	-186.44	3,914.80	1,692.29	1,605.50	86.80	19.497		
10,300.00	7,730.00	10,902.54	7,630.00	49.35	82.32	-86.65	-286.44	3,914.46	1,692.30	1,604.40	87.90	19.253		
10,400.00	7,730.00	11,002.54	7,630.00	49.27	82.22	-86.65	-386.44	3,914.12	1,692.30	1,603.18	89.12	18.988		
10,500.00	7,730.00	11,102.54	7,630.00	49.26	82.14	-86.65	-486.44	3,913.79	1,692.31	1,601.84	90.47	18.705		
10,600.00	7,730.00	11,202.54	7,630.00	49.32	82.08	-86.65	-586.44	3,913.45	1,692.31	1,600.38	91.94	18.407		
10,700.00	7,730.00	11,302.54	7,630.00	49.51	82.04	-86.65	-686.43	3,913.12	1,692.32	1,598.81	93.51	18.097		
10,800.00	7,730.00	11,402.54	7,630.00	49.83	82.02	-86.65	-786.43	3,912.78	1,692.32	1,597.13	95.19	17.778		
10,900.00	7,730.00	11,502.54	7,630.00	50.31	82.03	-86.65	-886.43	3,912.45	1,692.33	1,595.36	96.97	17.452		
11,000.00	7,730.00	11,602.54	7,630.00	50.96	82.07	-86.65	-986.43	3,912.11	1,692.33	1,593.49	98.84	17.122		
11,100.00	7,730.00	11,702.54	7,630.00	51.75	82.13	-86.65	-1,086.43	3,911.77	1,692.34	1,591.54	100.80	16.789		
11,200.00	7,730.00	11,802.54	7,630.00	52.66	82.21	-86.65	-1,186.43	3,911.44	1,692.34	1,589.50	102.85	16.455		
11,300.00	7,730.00	11,902.54	7,630.00	53.67	82.33	-86.65	-1,286.43	3,911.10	1,692.35	1,587.38	104.97	16.122		
11,400.00	7,730.00	12,002.54	7,630.00	54.75	82.48	-86.65	-1,386.43	3,910.77	1,692.35	1,585.18	107.17	15.791		
11,500.00	7,730.00	12,102.54	7,630.00	55.89	82.67	-86.65	-1,486.43	3,910.43	1,692.36	1,582.92	109.44	15.464		
11,600.00	7,730.00	12,202.54	7,630.00	57.07	82.89	-86.65	-1,586.43	3,910.09	1,692.36	1,580.60	111.77	15.142		
11,700.00	7,730.00	12,302.54	7,630.00	58.30	83.15	-86.65	-1,686.43	3,909.76	1,692.37	1,578.21	114.16	14.824		
11,800.00	7,730.00	12,402.54	7,630.00	59.55	83.45	-86.65	-1,786.43	3,909.42	1,692.37	1,575.76	116.61	14.513		
11,900.00	7,730.00	12,502.54	7,630.00	60.84	83.80	-86.65	-1,886.43	3,909.09	1,692.38	1,573.26	119.12	14.207		
12,000.00	7,730.00	12,602.54	7,630.00	62.15	84.19	-86.65	-1,986.43	3,908.75	1,692.38	1,570.71	121.68	13.909		
12,100.00	7,730.00	12,702.54	7,630.00	63.49	84.63	-86.65	-2,086.43	3,908.42	1,692.39	1,568.11	124.28	13.618		
12,200.00	7,730.00	12,802.54	7,630.00	64.85	85.11	-86.65	-2,186.43	3,908.08	1,692.39	1,565.47	126.93	13.334		
12,300.00	7,730.00	12,902.54	7,630.00	66.22	85.65	-86.65	-2,286.43	3,907.74	1,692.40	1,562.78	129.62	13.057		
12,400.00	7,730.00	13,002.54	7,630.00	67.62	86.24	-86.65	-2,386.42	3,907.41	1,692.41	1,560.06	132.35	12.788		
12,500.00	7,730.00	13,102.54	7,630.00	69.03	86.88	-86.65	-2,486.42	3,907.07	1,692.41	1,557.30	135.11	12.526		
12,600.00	7,730.00	13,202.54	7,630.00	70.45	87.57	-86.65	-2,586.42	3,906.74	1,692.42	1,554.50	137.91	12.272		
12,700.00	7,730.00	13,302.54	7,630.00	71.90	88.32	-86.65	-2,686.42	3,906.40	1,692.42	1,551.67	140.75	12.024		
12,800.00	7,730.00	13,402.54	7,630.00	73.35	89.12	-86.65	-2,786.42	3,906.06	1,692.43	1,548.81	143.61	11.785		
12,900.00	7,730.00	13,502.54	7,630.00	74.81	89.97	-86.65	-2,886.42	3,905.73	1,692.43	1,545.92	146.51	11.552		
13,000.00	7,730.00	13,602.54	7,630.00	76.29	90.86	-86.65	-2,986.42	3,905.39	1,692.44	1,543.01	149.43	11.326		
13,100.00	7,730.00	13,702.54	7,630.00	77.78	91.81	-86.65	-3,086.42	3,905.06	1,692.44	1,540.07	152.37	11.107		
13,200.00	7,730.00	13,802.54	7,630.00	79.28	92.79	-86.65	-3,186.42	3,904.72	1,692.45	1,537.10	155.34	10.895		
13,300.00	7,730.00	13,902.54	7,630.00	80.79	93.82	-86.65	-3,286.42	3,904.39	1,692.45	1,534.11	158.34	10.689		
13,400.00	7,730.00	14,002.54	7,630.00	82.31	94.89	-86.65	-3,386.42	3,904.05	1,692.46	1,531.10	161.35	10.489		
13,500.00	7,730.00	14,102.54	7,630.00	83.84	96.00	-86.65	-3,486.42	3,903.71	1,692.46	1,528.07	164.39	10.295		
13,600.00	7,730.00	14,202.54	7,630.00	85.37	97.14	-86.65	-3,586.42	3,903.38	1,692.47	1,525.02	167.44	10.108		
13,700.00	7,730.00	14,302.54	7,630.00	86.92	98.31	-86.65	-3,686.42	3,903.04	1,692.47	1,521.95	170.52	9.925		
13,800.00	7,730.00	14,402.54	7,630.00	88.47	99.52	-86.65	-3,786.42	3,902.71	1,692.48	1,518.87	173.61	9.749		
13,900.00	7,730.00	14,502.54	7,630.00	90.03	100.75	-86.65	-3,886.42	3,902.37	1,692.48	1,515.76	176.72	9.577		
14,000.00	7,730.00	14,602.54	7,630.00	91.59	102.01	-86.65	-3,986.42	3,902.03	1,692.49	1,512.65	179.84	9.411		
14,100.00	7,730.00	14,702.54	7,630.00	93.16	103.29	-86.65	-4,086.42	3,901.70	1,692.49	1,509.51	182.98	9.250		
14,200.00	7,730.00	14,802.54	7,630.00	94.74	104.60	-86.65	-4,186.41	3,901.36	1,692.50	1,506.37	186.13	9.093		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	14,902.54	7,630.00	96.33	105.92	-86.65	-4,286.41	3,901.03	1,692.50	1,503.21	189.29	8.941		
14,400.00	7,730.00	15,002.54	7,630.00	97.92	107.27	-86.65	-4,386.41	3,900.69	1,692.51	1,500.04	192.47	8.794		
14,500.00	7,730.00	15,102.54	7,630.00	99.51	108.64	-86.65	-4,486.41	3,900.35	1,692.51	1,496.85	195.66	8.650		
14,600.00	7,730.00	15,202.54	7,630.00	101.11	110.02	-86.65	-4,586.41	3,900.02	1,692.52	1,493.66	198.86	8.511		
14,700.00	7,730.00	15,302.54	7,630.00	102.72	111.42	-86.65	-4,686.41	3,899.68	1,692.52	1,490.45	202.07	8.376		
14,800.00	7,730.00	15,402.54	7,630.00	104.33	112.83	-86.65	-4,786.41	3,899.35	1,692.53	1,487.23	205.30	8.244		
14,900.00	7,730.00	15,502.54	7,630.00	105.94	114.26	-86.65	-4,886.41	3,899.01	1,692.53	1,484.00	208.53	8.117		
15,000.00	7,730.00	15,602.54	7,630.00	107.56	115.70	-86.65	-4,986.41	3,898.68	1,692.54	1,480.77	211.77	7.992		
15,100.00	7,730.00	15,702.54	7,630.00	109.18	117.15	-86.65	-5,086.41	3,898.34	1,692.54	1,477.52	215.02	7.872		
15,200.00	7,730.00	15,802.54	7,630.00	110.81	118.61	-86.65	-5,186.41	3,898.00	1,692.55	1,474.27	218.28	7.754		
15,300.00	7,730.00	15,902.54	7,630.00	112.44	120.09	-86.65	-5,286.41	3,897.67	1,692.55	1,471.00	221.55	7.640		
15,400.00	7,730.00	16,002.54	7,630.00	114.08	121.57	-86.65	-5,386.41	3,897.33	1,692.56	1,467.73	224.82	7.528		
15,500.00	7,730.00	16,102.54	7,630.00	115.72	123.06	-86.65	-5,486.41	3,897.00	1,692.56	1,464.45	228.11	7.420		
15,600.00	7,730.00	16,202.54	7,630.00	117.36	124.57	-86.65	-5,586.41	3,896.66	1,692.57	1,461.17	231.40	7.315		
15,700.00	7,730.00	16,302.54	7,630.00	119.00	126.08	-86.65	-5,686.41	3,896.32	1,692.57	1,457.88	234.70	7.212		
15,800.00	7,730.00	16,402.54	7,630.00	120.65	127.60	-86.65	-5,786.41	3,895.99	1,692.58	1,454.58	238.00	7.112		
15,900.00	7,730.00	16,502.54	7,630.00	122.30	129.13	-86.65	-5,886.41	3,895.65	1,692.58	1,451.27	241.31	7.014		
16,000.00	7,730.00	16,602.54	7,630.00	123.96	130.66	-86.65	-5,986.40	3,895.32	1,692.59	1,447.96	244.63	6.919		
16,100.00	7,730.00	16,702.54	7,630.00	125.61	132.20	-86.65	-6,086.40	3,894.98	1,692.59	1,444.64	247.95	6.826		
16,200.00	7,730.00	16,802.54	7,630.00	127.27	133.75	-86.65	-6,186.40	3,894.65	1,692.60	1,441.32	251.28	6.736		
16,300.00	7,730.00	16,902.54	7,630.00	128.94	135.31	-86.65	-6,286.40	3,894.31	1,692.60	1,437.99	254.61	6.648		
16,400.00	7,730.00	17,002.54	7,630.00	130.60	136.87	-86.65	-6,386.40	3,893.97	1,692.61	1,434.66	257.95	6.562		
16,500.00	7,730.00	17,102.54	7,630.00	132.27	138.43	-86.65	-6,486.40	3,893.64	1,692.61	1,431.32	261.30	6.478		
16,600.00	7,730.00	17,202.54	7,630.00	133.94	140.01	-86.65	-6,586.40	3,893.30	1,692.62	1,427.97	264.64	6.396		
16,700.00	7,730.00	17,302.54	7,630.00	135.61	141.58	-86.65	-6,686.40	3,892.97	1,692.62	1,424.63	268.00	6.316		
16,800.00	7,730.00	17,402.54	7,630.00	137.28	143.17	-86.65	-6,786.40	3,892.63	1,692.63	1,421.27	271.35	6.238		
16,900.00	7,730.00	17,502.54	7,630.00	138.96	144.75	-86.65	-6,886.40	3,892.29	1,692.63	1,417.92	274.72	6.161		
17,000.00	7,730.00	17,602.54	7,630.00	140.64	146.34	-86.65	-6,986.40	3,891.96	1,692.64	1,414.56	278.08	6.087		
17,100.00	7,730.00	17,702.54	7,630.00	142.32	147.94	-86.65	-7,086.40	3,891.62	1,692.64	1,411.19	281.45	6.014		
17,200.00	7,730.00	17,802.54	7,630.00	144.00	149.54	-86.65	-7,186.40	3,891.29	1,692.65	1,407.82	284.83	5.943		
17,300.00	7,730.00	17,902.54	7,630.00	145.69	151.14	-86.65	-7,286.40	3,890.95	1,692.65	1,404.45	288.21	5.873		
17,400.00	7,730.00	18,002.54	7,630.00	147.37	152.75	-86.65	-7,386.40	3,890.62	1,692.66	1,401.07	291.59	5.805		
17,500.00	7,730.00	18,102.54	7,630.00	149.06	154.36	-86.65	-7,486.40	3,890.28	1,692.66	1,397.69	294.97	5.738		
17,600.00	7,730.00	18,202.54	7,630.00	150.75	155.98	-86.65	-7,586.40	3,889.94	1,692.67	1,394.31	298.36	5.673		
17,700.00	7,730.00	18,302.54	7,630.00	152.44	157.60	-86.65	-7,686.40	3,889.61	1,692.67	1,390.92	301.75	5.609		
17,800.00	7,730.00	18,402.54	7,630.00	154.13	159.22	-86.65	-7,786.39	3,889.27	1,692.68	1,387.53	305.15	5.547		
17,900.00	7,730.00	18,502.54	7,630.00	155.83	160.84	-86.65	-7,886.39	3,888.94	1,692.68	1,384.14	308.54	5.486		
18,000.00	7,730.00	18,602.54	7,630.00	157.52	162.47	-86.65	-7,986.39	3,888.60	1,692.69	1,380.74	311.95	5.426		
18,100.00	7,730.00	18,702.54	7,630.00	159.22	164.10	-86.65	-8,086.39	3,888.26	1,692.69	1,377.35	315.35	5.368		
18,200.00	7,730.00	18,802.54	7,630.00	160.92	165.74	-86.65	-8,186.39	3,887.93	1,692.70	1,373.94	318.75	5.310		
18,300.00	7,730.00	18,902.54	7,630.00	162.62	167.38	-86.65	-8,286.39	3,887.59	1,692.70	1,370.54	322.16	5.254		
18,400.00	7,730.00	19,002.54	7,630.00	164.32	169.02	-86.65	-8,386.39	3,887.26	1,692.71	1,367.13	325.58	5.199		
18,400.00	7,730.00	19,002.55	7,630.00	164.32	169.02	-86.65	-8,386.39	3,887.26	1,692.71	1,367.13	325.58	5.199		
18,426.22	7,730.00	19,021.79	7,630.00	164.76	169.33	-86.65	-8,405.64	3,887.19	1,692.73	1,366.09	326.63	5.182 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1.00	-1.00	0.00	0.00	90.35	-0.36	59.92	59.92					
100.00	100.00	101.00	99.00	0.13	0.14	90.35	-0.36	59.92	59.92	59.65	0.27	219.945		
200.00	200.00	201.00	199.00	0.49	0.50	90.35	-0.36	59.92	59.92	58.93	0.99	60.565		
300.00	300.00	301.00	299.00	0.85	0.85	90.35	-0.36	59.92	59.92	58.22	1.71	35.117		
400.00	400.00	401.00	399.00	1.21	1.21	90.35	-0.36	59.92	59.92	57.50	2.42	24.728		
500.00	500.00	501.00	499.00	1.57	1.57	90.35	-0.36	59.92	59.92	56.78	3.14	19.082		
600.00	600.00	599.00	599.00	1.93	1.92	90.35	-0.36	59.92	59.92	56.07	3.85	15.564	CC, ES	
700.00	700.00	697.14	697.13	2.29	2.27	89.66	0.36	61.40	61.43	56.87	4.56	13.485		
800.00	800.00	795.04	794.89	2.64	2.62	87.77	2.56	65.88	66.05	60.80	5.25	12.572		
900.00	900.00	892.49	891.98	3.00	2.97	85.15	6.22	73.31	73.91	67.96	5.95	12.424		
1,000.00	1,000.00	989.26	988.06	3.36	3.33	82.31	11.29	83.62	85.08	78.44	6.64	12.820		
1,100.00	1,100.00	1,085.14	1,082.83	3.72	3.70	79.62	17.72	96.70	99.63	92.31	7.31	13.620		
1,200.00	1,200.00	1,179.94	1,175.99	4.08	4.10	77.25	25.45	112.42	117.54	109.56	7.98	14.724		
1,300.00	1,299.98	1,273.82	1,267.63	4.43	4.51	28.26	34.44	130.71	137.26	128.63	8.63	15.898		
1,400.00	1,399.84	1,367.09	1,357.95	4.79	4.95	27.19	44.68	151.54	157.18	147.91	9.27	16.954		
1,500.00	1,499.45	1,459.74	1,446.89	5.15	5.42	26.64	56.13	174.83	177.20	167.29	9.91	17.889		
1,600.00	1,598.70	1,551.78	1,534.37	5.51	5.93	26.44	68.75	200.51	197.27	186.74	10.54	18.722		
1,700.00	1,697.47	1,643.22	1,620.32	5.89	6.47	26.50	82.52	228.51	217.38	206.21	11.17	19.465		
1,800.00	1,795.62	1,734.07	1,704.68	6.28	7.06	26.75	97.38	258.75	237.50	225.70	11.80	20.124		
1,900.00	1,893.06	1,824.34	1,787.41	6.69	7.69	27.13	113.32	291.15	257.62	245.18	12.44	20.704		
2,000.00	1,989.64	1,914.03	1,868.43	7.13	8.36	27.62	130.28	325.66	277.76	264.66	13.10	21.209		
2,100.00	2,085.27	2,003.15	1,947.72	7.61	9.07	28.19	148.24	362.18	297.90	284.13	13.77	21.639		
2,200.00	2,179.82	2,091.73	2,025.22	8.12	9.84	28.81	167.15	400.65	318.05	303.58	14.46	21.990		
2,300.00	2,273.17	2,179.75	2,100.90	8.67	10.66	29.49	186.99	441.00	338.21	323.02	15.19	22.262		
2,400.00	2,365.21	2,267.25	2,174.71	9.27	11.52	30.20	207.71	483.15	358.39	342.43	15.96	22.455		
2,500.00	2,455.84	2,354.22	2,246.63	9.92	12.44	30.94	229.28	527.04	378.59	361.82	16.78	22.565		
2,580.62	2,527.80	2,435.69	2,302.64	10.49	13.33	31.54	247.09	563.25	394.90	377.37	17.53	22.528		
2,600.00	2,544.97	2,442.16	2,317.83	10.63	13.40	31.75	252.06	573.36	398.86	381.18	17.68	22.562		
2,700.00	2,633.58	2,539.77	2,396.20	11.37	14.52	32.77	277.73	625.58	419.37	400.52	18.85	22.251		
2,800.00	2,722.19	2,637.38	2,474.57	12.13	15.65	33.70	303.40	677.79	439.99	419.94	20.06	21.937		
2,900.00	2,810.80	2,734.99	2,552.95	12.91	16.80	34.55	329.07	730.01	460.72	439.42	21.30	21.625		
3,000.00	2,899.41	2,832.60	2,631.32	13.71	17.96	35.33	354.74	782.22	481.54	458.95	22.59	21.320		
3,100.00	2,988.02	2,930.21	2,709.69	14.52	19.12	36.04	380.41	834.44	502.43	478.54	23.90	21.025		
3,200.00	3,076.63	3,027.82	2,788.07	15.34	20.29	36.69	406.08	886.65	523.40	498.16	25.23	20.742		
3,300.00	3,165.24	3,125.43	2,866.44	16.16	21.47	37.29	431.75	938.86	544.42	517.83	26.59	20.472		
3,400.00	3,253.85	3,223.04	2,944.81	17.00	22.65	37.85	457.42	991.08	565.50	537.52	27.97	20.215		
3,500.00	3,342.46	3,320.65	3,023.19	17.84	23.84	38.37	483.09	1,043.29	586.62	557.25	29.37	19.971		
3,600.00	3,431.07	3,418.26	3,101.56	18.69	25.03	38.85	508.76	1,095.51	607.79	577.00	30.79	19.741		
3,700.00	3,519.68	3,515.87	3,179.94	19.55	26.22	39.30	534.43	1,147.72	629.00	596.78	32.22	19.523		
3,800.00	3,608.29	3,613.48	3,258.31	20.40	27.42	39.72	560.10	1,199.94	650.24	616.58	33.66	19.317		
3,900.00	3,696.90	3,711.09	3,336.68	21.26	28.62	40.12	585.77	1,252.15	671.51	636.39	35.12	19.123		
4,000.00	3,785.51	3,808.70	3,415.06	22.13	29.82	40.49	611.44	1,304.36	692.81	656.23	36.58	18.939		
4,100.00	3,874.12	3,906.31	3,493.43	23.00	31.02	40.84	637.11	1,356.58	714.14	676.08	38.06	18.765		
4,200.00	3,962.73	4,003.92	3,571.80	23.87	32.22	41.16	662.78	1,408.79	735.49	695.95	39.54	18.601		
4,300.00	4,051.34	4,101.53	3,650.18	24.74	33.43	41.47	688.45	1,461.01	756.86	715.83	41.03	18.446		
4,400.00	4,139.95	4,200.86	3,728.55	25.62	34.65	41.77	714.12	1,513.22	778.25	735.71	42.54	18.294		
4,500.00	4,228.56	4,303.25	3,806.92	26.49	35.92	42.04	739.79	1,565.44	799.66	755.58	44.08	18.140		
4,600.00	4,317.17	4,405.64	3,885.30	27.37	37.19	42.30	765.46	1,617.65	821.09	775.46	45.63	17.994		
4,700.00	4,405.78	4,508.03	3,963.67	28.25	38.46	42.55	791.13	1,669.86	842.54	795.35	47.18	17.857		
4,800.00	4,494.39	4,589.58	4,042.05	29.13	39.47	42.79	816.80	1,722.08	863.99	815.41	48.58	17.783		
4,900.00	4,583.00	4,687.19	4,120.42	30.02	40.68	43.02	842.47	1,774.29	885.46	835.35	50.11	17.670		
5,000.00	4,671.61	4,784.80	4,198.79	30.90	41.89	43.23	868.14	1,826.51	906.95	855.31	51.64	17.562		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,882.41	4,277.17	31.79	43.10	43.44	893.81	1,878.72	928.44	875.27	53.18	17.460		
5,200.00	4,848.83	4,980.02	4,355.54	32.67	44.32	43.63	919.48	1,930.93	949.95	895.23	54.71	17.362		
5,300.00	4,937.44	5,077.63	4,433.91	33.56	45.53	43.82	945.15	1,983.15	971.46	915.21	56.26	17.268		
5,400.00	5,026.05	5,175.24	4,512.29	34.45	46.75	44.00	970.82	2,035.36	992.99	935.19	57.80	17.179		
5,500.00	5,114.66	5,272.85	4,590.66	35.34	47.96	44.17	996.49	2,087.58	1,014.52	955.17	59.35	17.094		
5,600.00	5,203.27	5,370.46	4,669.03	36.23	49.18	44.33	1,022.16	2,139.79	1,036.07	975.17	60.90	17.012		
5,700.00	5,291.88	5,468.07	4,747.41	37.12	50.39	44.49	1,047.83	2,192.01	1,057.62	995.16	62.45	16.934		
5,800.00	5,380.50	5,565.68	4,825.78	38.01	51.61	44.64	1,073.50	2,244.22	1,079.17	1,015.16	64.01	16.860		
5,900.00	5,469.11	5,663.29	4,904.16	38.90	52.82	44.78	1,099.17	2,296.43	1,100.74	1,035.17	65.57	16.788		
6,000.00	5,557.72	5,760.90	4,982.53	39.79	54.04	44.92	1,124.84	2,348.65	1,122.31	1,055.18	67.13	16.719		
6,100.00	5,646.33	5,858.51	5,060.90	40.68	55.26	45.06	1,150.51	2,400.86	1,143.89	1,075.20	68.69	16.653		
6,200.00	5,734.94	5,956.12	5,139.28	41.58	56.47	45.19	1,176.18	2,453.08	1,165.47	1,095.21	70.25	16.589		
6,300.00	5,823.55	6,053.73	5,217.65	42.47	57.69	45.31	1,201.85	2,505.29	1,187.06	1,115.24	71.82	16.528		
6,400.00	5,912.16	6,151.34	5,296.02	43.36	58.91	45.43	1,227.52	2,557.51	1,208.65	1,135.26	73.39	16.470		
6,500.00	6,000.77	6,248.95	5,374.40	44.26	60.13	45.55	1,253.19	2,609.72	1,230.25	1,155.29	74.96	16.413		
6,600.00	6,089.38	6,346.56	5,452.77	45.15	61.34	45.66	1,278.86	2,661.93	1,251.85	1,175.32	76.53	16.358		
6,700.00	6,177.99	6,444.17	5,531.14	46.05	62.56	45.77	1,304.53	2,714.15	1,273.46	1,195.36	78.10	16.306		
6,800.00	6,266.60	6,541.78	5,609.52	46.94	63.78	45.87	1,330.20	2,766.36	1,295.07	1,215.40	79.67	16.255		
6,900.00	6,355.21	6,639.39	5,687.89	47.84	65.00	45.97	1,355.87	2,818.58	1,316.69	1,235.44	81.25	16.206		
7,000.00	6,443.82	6,737.00	5,766.27	48.74	66.22	46.07	1,381.54	2,870.79	1,338.30	1,255.48	82.82	16.159		
7,100.00	6,532.43	6,834.61	5,844.64	49.63	67.44	46.17	1,407.21	2,923.01	1,359.93	1,275.53	84.40	16.113		
7,200.00	6,621.04	6,932.22	5,923.01	50.53	68.66	46.26	1,432.88	2,975.22	1,381.55	1,295.58	85.98	16.069		
7,300.00	6,709.65	7,029.83	6,001.39	51.42	69.88	46.35	1,458.55	3,027.43	1,403.18	1,315.63	87.56	16.026		
7,400.00	6,798.26	7,127.44	6,079.76	52.32	71.10	46.43	1,484.22	3,079.65	1,424.82	1,335.68	89.14	15.985		
7,500.00	6,886.87	7,225.05	6,158.13	53.22	72.32	46.52	1,509.89	3,131.86	1,446.45	1,355.74	90.72	15.945		
7,600.00	6,975.48	7,322.66	6,236.51	54.12	73.54	46.60	1,535.56	3,184.08	1,468.09	1,375.79	92.30	15.906		
7,656.30	7,025.36	7,377.61	6,280.63	54.62	74.22	46.64	1,550.01	3,213.47	1,480.27	1,387.08	93.19	15.885		
7,700.00	7,064.54	7,420.31	6,314.91	55.00	74.76	40.40	1,561.24	3,236.31	1,489.52	1,395.73	93.80	15.881		
7,750.00	7,110.29	7,469.03	6,354.03	55.40	75.37	31.18	1,574.05	3,262.37	1,499.56	1,405.28	94.28	15.906		
7,800.00	7,156.67	7,517.25	6,392.75	55.75	75.97	19.89	1,586.74	3,288.17	1,508.99	1,414.46	94.53	15.963		
7,850.00	7,203.34	7,564.62	6,430.78	56.05	76.56	7.32	1,599.19	3,313.50	1,517.80	1,423.26	94.55	16.053		
7,900.00	7,249.95	7,610.76	6,467.83	56.30	77.14	-5.17	1,611.33	3,338.19	1,526.05	1,431.72	94.34	16.177		
7,950.00	7,296.14	7,655.34	6,503.62	56.50	77.69	-16.39	1,623.05	3,362.03	1,533.81	1,439.91	93.90	16.335		
8,000.00	7,341.56	7,702.00	6,537.87	56.64	78.28	-25.77	1,634.27	3,384.85	1,541.16	1,447.89	93.27	16.523		
8,050.00	7,385.86	7,738.43	6,570.33	56.74	78.73	-33.33	1,644.90	3,406.48	1,548.25	1,455.86	92.38	16.759		
8,100.00	7,428.71	7,776.31	6,600.75	56.79	79.21	-39.33	1,654.87	3,426.75	1,555.19	1,463.85	91.34	17.026		
8,150.00	7,469.77	7,811.36	6,628.90	56.80	79.64	-44.08	1,664.08	3,445.50	1,562.14	1,472.01	90.13	17.332		
8,200.00	7,508.75	7,843.32	6,654.56	56.77	80.04	-47.83	1,672.49	3,462.59	1,569.24	1,480.46	88.78	17.675		
8,250.00	7,545.33	7,871.93	6,677.53	56.70	80.40	-50.77	1,680.01	3,477.90	1,576.63	1,489.30	87.32	18.055		
8,300.00	7,579.25	7,903.01	6,697.65	56.59	80.79	-53.03	1,686.60	3,491.30	1,584.44	1,498.60	85.83	18.459		
8,350.00	7,610.24	7,918.29	6,714.75	56.45	80.98	-54.70	1,692.21	3,502.70	1,592.77	1,508.54	84.23	18.910		
8,400.00	7,638.06	7,935.69	6,728.72	56.28	81.20	-55.84	1,696.78	3,512.00	1,601.70	1,519.04	82.66	19.376		
8,450.00	7,662.52	7,949.04	6,739.44	56.09	81.37	-56.49	1,700.29	3,519.14	1,611.30	1,530.15	81.15	19.857		
8,500.00	7,683.41	7,958.24	6,746.83	55.88	81.48	-56.69	1,702.71	3,524.06	1,621.57	1,541.86	79.71	20.344		
8,550.00	7,700.59	7,963.23	6,750.83	55.64	81.54	-56.47	1,704.02	3,526.73	1,632.49	1,554.10	78.39	20.826		
8,600.00	7,713.91	7,963.96	6,751.42	55.39	81.55	-55.85	1,704.21	3,527.12	1,644.00	1,566.79	77.21	21.292		
8,650.00	7,723.29	7,960.43	6,748.59	55.14	81.51	-54.87	1,703.29	3,525.24	1,656.03	1,579.82	76.21	21.731		
8,700.00	7,728.64	7,952.67	6,742.36	54.87	81.41	-53.55	1,701.25	3,521.09	1,668.42	1,593.05	75.38	22.134		
8,740.83	7,730.00	7,943.24	6,734.78	54.65	81.29	-52.25	1,698.77	3,516.04	1,678.71	1,603.88	74.84	22.432		
8,800.00	7,730.00	7,927.57	6,722.20	54.33	81.10	-51.72	1,694.65	3,507.66	1,694.58	1,620.30	74.28	22.814		
8,900.00	7,730.00	7,901.09	6,700.94	53.82	80.77	-50.83	1,687.68	3,493.49	1,725.36	1,651.44	73.92	23.342		
9,000.00	7,730.00	7,874.61	6,679.68	53.33	80.44	-49.93	1,680.72	3,479.33	1,760.88	1,686.66	74.22	23.724		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,848.13	6,658.42	52.87	80.10	-49.04	1,673.75	3,465.16	1,800.88	1,725.78	75.10	23.981		
9,200.00	7,730.00	7,821.65	6,637.15	52.44	79.77	-48.16	1,666.79	3,451.00	1,845.05	1,768.63	76.42	24.145		
9,300.00	7,730.00	7,804.83	6,615.89	52.03	79.56	-47.27	1,659.82	3,436.83	1,893.10	1,814.98	78.12	24.232		
9,400.00	7,730.00	7,768.69	6,594.63	51.65	79.11	-46.39	1,652.86	3,422.67	1,944.76	1,864.81	79.95	24.325		
9,500.00	7,730.00	7,742.20	6,573.37	51.29	78.78	-45.52	1,645.90	3,408.50	1,999.73	1,917.76	81.97	24.396		
9,600.00	7,730.00	10,565.88	7,870.00	50.95	90.96	-93.96	412.36	4,266.76	2,044.18	1,963.63	80.55	25.377		
9,700.00	7,730.00	10,665.88	7,870.00	50.64	90.74	-93.96	312.36	4,266.42	2,044.18	1,963.48	80.71	25.328		
9,800.00	7,730.00	10,765.88	7,870.00	50.35	90.54	-93.96	212.36	4,266.08	2,044.19	1,963.17	81.02	25.231		
9,900.00	7,730.00	10,865.88	7,870.00	50.09	90.36	-93.96	112.36	4,265.75	2,044.19	1,962.71	81.48	25.087		
10,000.00	7,730.00	10,965.88	7,870.00	49.86	90.20	-93.96	12.36	4,265.41	2,044.20	1,962.10	82.10	24.900		
10,100.00	7,730.00	11,065.88	7,870.00	49.65	90.05	-93.96	-87.64	4,265.07	2,044.20	1,961.34	82.86	24.672		
10,200.00	7,730.00	11,165.88	7,870.00	49.48	89.92	-93.96	-187.64	4,264.73	2,044.20	1,960.45	83.76	24.407		
10,300.00	7,730.00	11,265.88	7,870.00	49.35	89.80	-93.96	-287.64	4,264.40	2,044.21	1,959.41	84.79	24.108		
10,400.00	7,730.00	11,365.88	7,870.00	49.27	89.71	-93.96	-387.64	4,264.06	2,044.21	1,958.25	85.96	23.780		
10,500.00	7,730.00	11,465.88	7,870.00	49.26	89.63	-93.96	-487.64	4,263.72	2,044.21	1,956.95	87.26	23.426		
10,600.00	7,730.00	11,565.88	7,870.00	49.32	89.56	-93.96	-587.64	4,263.39	2,044.22	1,955.54	88.68	23.051		
10,700.00	7,730.00	11,665.88	7,870.00	49.51	89.52	-93.96	-687.63	4,263.05	2,044.22	1,954.01	90.21	22.659		
10,800.00	7,730.00	11,765.88	7,870.00	49.83	89.50	-93.96	-787.63	4,262.71	2,044.23	1,952.37	91.86	22.254		
10,900.00	7,730.00	11,865.88	7,870.00	50.31	89.50	-93.96	-887.63	4,262.37	2,044.23	1,950.62	93.61	21.838		
11,000.00	7,730.00	11,965.88	7,870.00	50.96	89.52	-93.96	-987.63	4,262.04	2,044.23	1,948.78	95.45	21.416		
11,100.00	7,730.00	12,065.88	7,870.00	51.75	89.57	-93.96	-1,087.63	4,261.70	2,044.24	1,946.85	97.39	20.990		
11,200.00	7,730.00	12,165.88	7,870.00	52.66	89.63	-93.96	-1,187.63	4,261.36	2,044.24	1,944.83	99.42	20.563		
11,300.00	7,730.00	12,265.88	7,870.00	53.67	89.73	-93.96	-1,287.63	4,261.03	2,044.25	1,942.72	101.52	20.136		
11,400.00	7,730.00	12,365.88	7,870.00	54.75	89.85	-93.96	-1,387.63	4,260.69	2,044.25	1,940.54	103.71	19.712		
11,500.00	7,730.00	12,465.88	7,870.00	55.89	89.99	-93.96	-1,487.63	4,260.35	2,044.25	1,938.29	105.96	19.292		
11,600.00	7,730.00	12,565.88	7,870.00	57.07	90.17	-93.96	-1,587.63	4,260.01	2,044.26	1,935.97	108.29	18.878		
11,700.00	7,730.00	12,665.88	7,870.00	58.30	90.38	-93.96	-1,687.63	4,259.68	2,044.26	1,933.59	110.67	18.471		
11,800.00	7,730.00	12,765.88	7,870.00	59.55	90.62	-93.96	-1,787.63	4,259.34	2,044.26	1,931.14	113.12	18.071		
11,900.00	7,730.00	12,865.88	7,870.00	60.84	90.89	-93.96	-1,887.63	4,259.00	2,044.27	1,928.65	115.62	17.680		
12,000.00	7,730.00	12,965.88	7,870.00	62.15	91.20	-93.96	-1,987.63	4,258.67	2,044.27	1,926.09	118.18	17.298		
12,100.00	7,730.00	13,065.88	7,870.00	63.49	91.55	-93.96	-2,087.63	4,258.33	2,044.28	1,923.50	120.78	16.925		
12,200.00	7,730.00	13,165.88	7,870.00	64.85	91.93	-93.96	-2,187.63	4,257.99	2,044.28	1,920.85	123.43	16.562		
12,300.00	7,730.00	13,265.88	7,870.00	66.22	92.36	-93.95	-2,287.63	4,257.66	2,044.28	1,918.16	126.12	16.209		
12,400.00	7,730.00	13,365.88	7,870.00	67.62	92.83	-93.95	-2,387.63	4,257.32	2,044.29	1,915.43	128.85	15.865		
12,500.00	7,730.00	13,465.88	7,870.00	69.03	93.34	-93.95	-2,487.62	4,256.98	2,044.29	1,912.67	131.62	15.531		
12,600.00	7,730.00	13,565.88	7,870.00	70.45	93.90	-93.95	-2,587.62	4,256.64	2,044.30	1,909.87	134.43	15.207		
12,700.00	7,730.00	13,665.88	7,870.00	71.90	94.50	-93.95	-2,687.62	4,256.31	2,044.30	1,907.03	137.27	14.893		
12,800.00	7,730.00	13,765.88	7,870.00	73.35	95.15	-93.95	-2,787.62	4,255.97	2,044.30	1,904.17	140.14	14.588		
12,900.00	7,730.00	13,865.88	7,870.00	74.81	95.84	-93.95	-2,887.62	4,255.63	2,044.31	1,901.27	143.04	14.292		
13,000.00	7,730.00	13,965.88	7,870.00	76.29	96.58	-93.95	-2,987.62	4,255.30	2,044.31	1,898.35	145.96	14.006		
13,100.00	7,730.00	14,065.88	7,870.00	77.78	97.36	-93.95	-3,087.62	4,254.96	2,044.31	1,895.40	148.92	13.728		
13,200.00	7,730.00	14,165.88	7,870.00	79.28	98.19	-93.95	-3,187.62	4,254.62	2,044.32	1,892.43	151.89	13.459		
13,300.00	7,730.00	14,265.88	7,870.00	80.79	99.06	-93.95	-3,287.62	4,254.28	2,044.32	1,889.43	154.89	13.198		
13,400.00	7,730.00	14,365.88	7,870.00	82.31	99.97	-93.95	-3,387.62	4,253.95	2,044.33	1,886.41	157.91	12.946		
13,500.00	7,730.00	14,465.88	7,870.00	83.84	100.93	-93.95	-3,487.62	4,253.61	2,044.33	1,883.37	160.96	12.701		
13,600.00	7,730.00	14,565.88	7,870.00	85.37	101.92	-93.95	-3,587.62	4,253.27	2,044.33	1,880.31	164.02	12.464		
13,700.00	7,730.00	14,665.88	7,870.00	86.92	102.95	-93.95	-3,687.62	4,252.94	2,044.34	1,877.24	167.10	12.234		
13,800.00	7,730.00	14,765.88	7,870.00	88.47	104.01	-93.95	-3,787.62	4,252.60	2,044.34	1,874.14	170.20	12.012		
13,900.00	7,730.00	14,865.88	7,870.00	90.03	105.11	-93.95	-3,887.62	4,252.26	2,044.35	1,871.03	173.31	11.796		
14,000.00	7,730.00	14,965.88	7,870.00	91.59	106.24	-93.95	-3,987.62	4,251.92	2,044.35	1,867.91	176.44	11.587		
14,100.00	7,730.00	15,065.88	7,870.00	93.16	107.40	-93.95	-4,087.62	4,251.59	2,044.35	1,864.77	179.58	11.384		
14,200.00	7,730.00	15,165.88	7,870.00	94.74	108.59	-93.95	-4,187.62	4,251.25	2,044.36	1,861.61	182.74	11.187		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	15,265.88	7,870.00	96.33	109.80	-93.95	-4,287.61	4,250.91	2,044.36	1,858.45	185.91	10.996		
14,400.00	7,730.00	15,365.88	7,870.00	97.92	111.04	-93.95	-4,387.61	4,250.58	2,044.36	1,855.27	189.10	10.811		
14,500.00	7,730.00	15,465.88	7,870.00	99.51	112.30	-93.95	-4,487.61	4,250.24	2,044.37	1,852.07	192.29	10.631		
14,600.00	7,730.00	15,565.88	7,870.00	101.11	113.59	-93.95	-4,587.61	4,249.90	2,044.37	1,848.87	195.50	10.457		
14,700.00	7,730.00	15,665.88	7,870.00	102.72	114.89	-93.95	-4,687.61	4,249.57	2,044.38	1,845.66	198.72	10.288		
14,800.00	7,730.00	15,765.88	7,870.00	104.33	116.22	-93.95	-4,787.61	4,249.23	2,044.38	1,842.43	201.95	10.123		
14,900.00	7,730.00	15,865.88	7,870.00	105.94	117.56	-93.95	-4,887.61	4,248.89	2,044.38	1,839.20	205.19	9.964		
15,000.00	7,730.00	15,965.88	7,870.00	107.56	118.92	-93.95	-4,987.61	4,248.55	2,044.39	1,835.95	208.43	9.808		
15,100.00	7,730.00	16,065.88	7,870.00	109.18	120.30	-93.95	-5,087.61	4,248.22	2,044.39	1,832.70	211.69	9.657		
15,200.00	7,730.00	16,165.88	7,870.00	110.81	121.69	-93.95	-5,187.61	4,247.88	2,044.40	1,829.44	214.96	9.511		
15,300.00	7,730.00	16,265.88	7,870.00	112.44	123.09	-93.95	-5,287.61	4,247.54	2,044.40	1,826.17	218.23	9.368		
15,400.00	7,730.00	16,365.88	7,870.00	114.08	124.51	-93.95	-5,387.61	4,247.21	2,044.40	1,822.89	221.51	9.229		
15,500.00	7,730.00	16,465.88	7,870.00	115.72	125.94	-93.95	-5,487.61	4,246.87	2,044.41	1,819.61	224.80	9.094		
15,600.00	7,730.00	16,565.88	7,870.00	117.36	127.39	-93.95	-5,587.61	4,246.53	2,044.41	1,816.32	228.10	8.963		
15,700.00	7,730.00	16,665.88	7,870.00	119.00	128.84	-93.95	-5,687.61	4,246.19	2,044.41	1,813.02	231.40	8.835		
15,800.00	7,730.00	16,765.88	7,870.00	120.65	130.30	-93.95	-5,787.61	4,245.86	2,044.42	1,809.71	234.71	8.711		
15,900.00	7,730.00	16,865.88	7,870.00	122.30	131.78	-93.95	-5,887.61	4,245.52	2,044.42	1,806.40	238.02	8.589		
16,000.00	7,730.00	16,965.88	7,870.00	123.96	133.26	-93.95	-5,987.60	4,245.18	2,044.43	1,803.08	241.34	8.471		
16,100.00	7,730.00	17,065.88	7,870.00	125.61	134.76	-93.95	-6,087.60	4,244.85	2,044.43	1,799.76	244.67	8.356		
16,200.00	7,730.00	17,165.88	7,870.00	127.27	136.26	-93.95	-6,187.60	4,244.51	2,044.43	1,796.43	248.00	8.244		
16,300.00	7,730.00	17,265.88	7,870.00	128.94	137.77	-93.95	-6,287.60	4,244.17	2,044.44	1,793.10	251.34	8.134		
16,400.00	7,730.00	17,365.88	7,870.00	130.60	139.28	-93.95	-6,387.60	4,243.83	2,044.44	1,789.76	254.69	8.027		
16,500.00	7,730.00	17,465.88	7,870.00	132.27	140.81	-93.95	-6,487.60	4,243.50	2,044.45	1,786.41	258.03	7.923		
16,600.00	7,730.00	17,565.88	7,870.00	133.94	142.34	-93.95	-6,587.60	4,243.16	2,044.45	1,783.06	261.39	7.822		
16,700.00	7,730.00	17,665.88	7,870.00	135.61	143.88	-93.95	-6,687.60	4,242.82	2,044.45	1,779.71	264.74	7.722		
16,800.00	7,730.00	17,765.88	7,870.00	137.28	145.42	-93.95	-6,787.60	4,242.49	2,044.46	1,776.35	268.11	7.626		
16,900.00	7,730.00	17,865.88	7,870.00	138.96	146.97	-93.95	-6,887.60	4,242.15	2,044.46	1,772.99	271.47	7.531		
17,000.00	7,730.00	17,965.88	7,870.00	140.64	148.53	-93.95	-6,987.60	4,241.81	2,044.46	1,769.62	274.84	7.439		
17,100.00	7,730.00	18,065.88	7,870.00	142.32	150.09	-93.95	-7,087.60	4,241.48	2,044.47	1,766.25	278.22	7.349		
17,200.00	7,730.00	18,165.88	7,870.00	144.00	151.66	-93.95	-7,187.60	4,241.14	2,044.47	1,762.88	281.59	7.260		
17,300.00	7,730.00	18,265.88	7,870.00	145.69	153.23	-93.95	-7,287.60	4,240.80	2,044.48	1,759.50	284.97	7.174		
17,400.00	7,730.00	18,365.88	7,870.00	147.37	154.81	-93.95	-7,387.60	4,240.46	2,044.48	1,756.12	288.36	7.090		
17,500.00	7,730.00	18,465.88	7,870.00	149.06	156.39	-93.95	-7,487.60	4,240.13	2,044.48	1,752.74	291.75	7.008		
17,600.00	7,730.00	18,565.88	7,870.00	150.75	157.98	-93.95	-7,587.60	4,239.79	2,044.49	1,749.35	295.14	6.927		
17,700.00	7,730.00	18,665.88	7,870.00	152.44	159.57	-93.95	-7,687.60	4,239.45	2,044.49	1,745.96	298.53	6.848		
17,800.00	7,730.00	18,765.88	7,870.00	154.13	161.16	-93.95	-7,787.59	4,239.12	2,044.50	1,742.56	301.93	6.771		
17,900.00	7,730.00	18,865.88	7,870.00	155.83	162.76	-93.95	-7,887.59	4,238.78	2,044.50	1,739.17	305.33	6.696		
18,000.00	7,730.00	18,965.88	7,870.00	157.52	164.37	-93.95	-7,987.59	4,238.44	2,044.50	1,735.77	308.73	6.622		
18,100.00	7,730.00	19,065.88	7,870.00	159.22	165.97	-93.95	-8,087.59	4,238.10	2,044.51	1,732.37	312.14	6.550		
18,200.00	7,730.00	19,165.88	7,870.00	160.92	167.58	-93.95	-8,187.59	4,237.77	2,044.51	1,728.96	315.55	6.479		
18,300.00	7,730.00	19,265.88	7,870.00	162.62	169.20	-93.95	-8,287.59	4,237.43	2,044.51	1,725.55	318.96	6.410		
18,400.00	7,730.00	19,365.88	7,870.00	164.32	170.81	-93.95	-8,387.59	4,237.09	2,044.52	1,722.14	322.38	6.342		
18,401.03	7,730.00	19,366.92	7,870.00	164.34	170.83	-93.95	-8,388.62	4,237.09	2,044.52	1,722.11	322.41	6.341		
18,426.22	7,730.00	19,383.51	7,870.00	164.76	171.10	-93.95	-8,405.22	4,237.03	2,044.54	1,721.12	323.42	6.322 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	2.00	-2.00	0.00	0.00	90.30	-0.36	70.00	70.00					
100.00	100.00	102.00	98.00	0.13	0.14	90.30	-0.36	70.00	70.00	69.73	0.28	253.607		
200.00	200.00	202.00	198.00	0.49	0.50	90.30	-0.36	70.00	70.00	69.01	0.99	70.497		
300.00	300.00	302.00	298.00	0.85	0.86	90.30	-0.36	70.00	70.00	68.29	1.71	40.939		
400.00	400.00	402.00	398.00	1.21	1.22	90.30	-0.36	70.00	70.00	67.57	2.43	28.845		
500.00	500.00	498.00	498.00	1.57	1.56	90.30	-0.36	70.00	70.00	66.87	3.13	22.369 CC, ES		
600.00	600.00	595.84	595.82	1.93	1.91	89.76	0.30	71.46	71.49	67.66	3.83	18.646		
700.00	700.00	693.41	693.27	2.29	2.25	88.22	2.36	75.93	76.12	71.58	4.53	16.788		
800.00	800.00	790.54	790.04	2.64	2.61	86.04	5.78	83.38	83.96	78.73	5.23	16.053		
900.00	900.00	887.00	885.83	3.00	2.97	83.59	10.52	93.72	95.09	89.17	5.92	16.061		
1,000.00	1,000.00	982.59	980.31	3.36	3.34	81.20	16.55	106.86	109.57	102.97	6.60	16.593		
1,100.00	1,100.00	1,077.10	1,073.21	3.72	3.74	79.02	23.80	122.65	127.38	120.10	7.28	17.506		
1,200.00	1,200.00	1,170.36	1,164.26	4.08	4.15	77.13	32.20	140.96	148.48	140.54	7.94	18.702		
1,300.00	1,299.98	1,262.59	1,253.61	4.43	4.60	28.46	41.72	161.71	171.31	162.73	8.58	19.970		
1,400.00	1,399.84	1,354.13	1,341.53	4.79	5.07	27.55	52.35	184.87	194.29	185.08	9.22	21.084		
1,500.00	1,499.45	1,444.99	1,427.95	5.15	5.58	27.06	64.05	210.38	217.33	207.49	9.84	22.076		
1,600.00	1,598.70	1,535.18	1,512.80	5.51	6.12	26.89	76.79	238.15	240.38	229.91	10.47	22.956		
1,700.00	1,697.47	1,624.71	1,596.04	5.89	6.70	26.93	90.54	268.10	263.42	252.32	11.10	23.734		
1,800.00	1,795.62	1,713.60	1,677.62	6.28	7.33	27.13	105.25	300.16	286.43	274.70	11.73	24.419		
1,900.00	1,893.06	1,801.84	1,757.50	6.69	7.99	27.46	120.89	334.25	309.40	297.04	12.37	25.017		
2,000.00	1,989.64	1,889.46	1,835.62	7.13	8.71	27.88	137.43	370.29	332.34	319.32	13.02	25.525		
2,100.00	2,085.27	1,976.46	1,911.96	7.61	9.47	28.37	154.83	408.22	355.23	341.54	13.69	25.948		
2,200.00	2,179.82	2,062.86	1,986.49	8.12	10.27	28.92	173.06	447.95	378.09	363.70	14.38	26.286		
2,300.00	2,273.17	2,148.67	2,059.16	8.67	11.12	29.51	192.09	489.41	400.90	385.79	15.11	26.536		
2,400.00	2,365.21	2,233.91	2,129.97	9.27	12.02	30.13	211.88	532.53	423.68	407.81	15.87	26.697		
2,500.00	2,455.84	2,318.58	2,198.88	9.92	12.96	30.78	232.40	577.24	446.44	429.76	16.68	26.767		
2,580.62	2,527.80	2,386.44	2,253.04	10.49	13.75	31.32	249.45	614.41	464.76	447.39	17.37	26.757		
2,600.00	2,544.97	2,402.69	2,265.86	10.63	13.94	31.50	253.61	623.48	469.21	451.68	17.54	26.753		
2,700.00	2,633.58	2,494.86	2,337.95	11.37	15.06	32.40	277.56	675.67	493.33	474.71	18.62	26.501		
2,800.00	2,722.19	2,608.43	2,413.49	12.13	16.48	33.25	302.74	730.54	517.71	497.79	19.92	25.983		
2,900.00	2,810.80	2,688.27	2,489.04	12.91	17.48	34.03	327.92	785.42	542.20	521.13	21.06	25.741		
3,000.00	2,899.41	2,784.97	2,564.58	13.71	18.70	34.74	353.10	840.29	566.77	544.43	22.34	25.373		
3,100.00	2,988.02	2,881.68	2,640.12	14.52	19.94	35.39	378.28	895.16	591.42	567.78	23.64	25.017		
3,200.00	3,076.63	2,978.38	2,715.66	15.34	21.17	35.99	403.46	950.03	616.13	591.16	24.97	24.677		
3,300.00	3,165.24	3,075.08	2,791.20	16.16	22.42	36.54	428.64	1,004.91	640.90	614.59	26.32	24.353		
3,400.00	3,253.85	3,171.79	2,866.75	17.00	23.67	37.06	453.82	1,059.78	665.73	638.04	27.69	24.046		
3,500.00	3,342.46	3,268.49	2,942.29	17.84	24.92	37.53	479.00	1,114.65	690.60	661.52	29.07	23.755		
3,600.00	3,431.07	3,365.20	3,017.83	18.69	26.18	37.97	504.18	1,169.53	715.51	685.04	30.47	23.479		
3,700.00	3,519.68	3,461.90	3,093.37	19.55	27.44	38.39	529.36	1,224.40	740.46	708.57	31.89	23.219		
3,800.00	3,608.29	3,558.60	3,168.91	20.40	28.70	38.77	554.54	1,279.27	765.44	732.13	33.32	22.974		
3,900.00	3,696.90	3,655.31	3,244.46	21.26	29.97	39.13	579.72	1,334.14	790.46	755.70	34.76	22.742		
4,000.00	3,785.51	3,752.01	3,320.00	22.13	31.23	39.47	604.90	1,389.02	815.50	779.29	36.21	22.523		
4,100.00	3,874.12	3,848.72	3,395.54	23.00	32.50	39.79	630.08	1,443.89	840.57	802.90	37.67	22.316		
4,200.00	3,962.73	3,945.42	3,471.08	23.87	33.77	40.09	655.25	1,498.76	865.66	826.52	39.13	22.121		
4,300.00	4,051.34	4,042.12	3,546.62	24.74	35.04	40.38	680.43	1,553.63	890.77	850.16	40.61	21.936		
4,400.00	4,139.95	4,138.83	3,622.17	25.62	36.32	40.65	705.61	1,608.51	915.90	873.81	42.09	21.760		
4,500.00	4,228.56	4,235.53	3,697.71	26.49	37.59	40.90	730.79	1,663.38	941.05	897.47	43.58	21.594		
4,600.00	4,317.17	4,332.23	3,773.25	27.37	38.87	41.14	755.97	1,718.25	966.22	921.14	45.07	21.437		
4,700.00	4,405.78	4,428.94	3,848.79	28.25	40.14	41.37	781.15	1,773.12	991.40	944.82	46.57	21.288		
4,800.00	4,494.39	4,525.64	3,924.34	29.13	41.42	41.59	806.33	1,828.00	1,016.59	968.52	48.08	21.146		
4,900.00	4,583.00	4,622.35	3,999.88	30.02	42.70	41.79	831.51	1,882.87	1,041.80	992.21	49.58	21.011		
5,000.00	4,671.61	4,719.05	4,075.42	30.90	43.97	41.99	856.69	1,937.74	1,067.02	1,015.92	51.10	20.882		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,815.75	4,150.96	31.79	45.25	42.18	881.87	1,992.61	1,092.25	1,039.64	52.61	20.760		
5,200.00	4,848.83	4,912.46	4,226.50	32.67	46.53	42.36	907.05	2,047.49	1,117.49	1,063.36	54.13	20.643		
5,300.00	4,937.44	5,009.16	4,302.05	33.56	47.81	42.53	932.23	2,102.36	1,142.74	1,087.09	55.66	20.532		
5,400.00	5,026.05	5,105.86	4,377.59	34.45	49.09	42.69	957.41	2,157.23	1,168.00	1,110.82	57.18	20.426		
5,500.00	5,114.66	5,202.57	4,453.13	35.34	50.37	42.85	982.59	2,212.11	1,193.27	1,134.56	58.71	20.324		
5,600.00	5,203.27	5,299.27	4,528.67	36.23	51.66	43.00	1,007.77	2,266.98	1,218.55	1,158.31	60.25	20.227		
5,700.00	5,291.88	5,395.98	4,604.21	37.12	52.94	43.15	1,032.95	2,321.85	1,243.84	1,182.06	61.78	20.133		
5,800.00	5,380.50	5,492.68	4,679.76	38.01	54.22	43.29	1,058.13	2,376.72	1,269.13	1,205.81	63.32	20.044		
5,900.00	5,469.11	5,589.38	4,755.30	38.90	55.50	43.42	1,083.31	2,431.60	1,294.43	1,229.57	64.86	19.958		
6,000.00	5,557.72	5,686.09	4,830.84	39.79	56.78	43.55	1,108.49	2,486.47	1,319.73	1,253.34	66.40	19.876		
6,100.00	5,646.33	5,782.79	4,906.38	40.68	58.07	43.67	1,133.67	2,541.34	1,345.04	1,277.10	67.94	19.797		
6,200.00	5,734.94	5,879.49	4,981.92	41.58	59.35	43.79	1,158.85	2,596.21	1,370.36	1,300.87	69.49	19.721		
6,300.00	5,823.55	5,976.20	5,057.47	42.47	60.63	43.90	1,184.03	2,651.09	1,395.68	1,324.65	71.03	19.649		
6,400.00	5,912.16	6,072.90	5,133.01	43.36	61.92	44.01	1,209.20	2,705.96	1,421.01	1,348.43	72.58	19.578		
6,500.00	6,000.77	6,169.61	5,208.55	44.26	63.20	44.12	1,234.38	2,760.83	1,446.34	1,372.21	74.13	19.511		
6,600.00	6,089.38	6,266.31	5,284.09	45.15	64.49	44.22	1,259.56	2,815.70	1,471.68	1,396.00	75.68	19.445		
6,700.00	6,177.99	6,363.01	5,359.64	46.05	65.77	44.32	1,284.74	2,870.58	1,497.02	1,419.78	77.24	19.383		
6,800.00	6,266.60	6,459.72	5,435.18	46.94	67.06	44.42	1,309.92	2,925.45	1,522.36	1,443.57	78.79	19.322		
6,900.00	6,355.21	6,556.42	5,510.72	47.84	68.34	44.51	1,335.10	2,980.32	1,547.71	1,467.37	80.34	19.263		
7,000.00	6,443.82	6,653.13	5,586.26	48.74	69.62	44.60	1,360.28	3,035.19	1,573.06	1,491.16	81.90	19.207		
7,100.00	6,532.43	6,749.83	5,661.80	49.63	70.91	44.69	1,385.46	3,090.07	1,598.42	1,514.96	83.46	19.152		
7,200.00	6,621.04	6,846.53	5,737.35	50.53	72.20	44.78	1,410.64	3,144.94	1,623.78	1,538.76	85.02	19.099		
7,300.00	6,709.65	6,943.24	5,812.89	51.42	73.48	44.86	1,435.82	3,199.81	1,649.14	1,562.56	86.58	19.048		
7,400.00	6,798.26	7,039.94	5,888.43	52.32	74.77	44.94	1,461.00	3,254.69	1,674.51	1,586.37	88.14	18.999		
7,500.00	6,886.87	7,136.64	5,963.97	53.22	76.05	45.01	1,486.18	3,309.56	1,699.88	1,610.18	89.70	18.951		
7,600.00	6,975.48	7,233.35	6,039.51	54.12	77.34	45.09	1,511.36	3,364.43	1,725.25	1,633.99	91.26	18.904		
7,656.30	7,025.36	7,287.79	6,082.04	54.62	78.06	45.13	1,525.53	3,395.32	1,739.53	1,647.39	92.14	18.879		
7,700.00	7,064.54	7,330.09	6,115.08	55.00	78.62	39.08	1,536.55	3,419.32	1,750.46	1,657.71	92.75	18.873		
7,750.00	7,110.29	7,378.35	6,152.79	55.40	79.27	30.11	1,549.12	3,446.71	1,762.50	1,669.26	93.25	18.901		
7,800.00	7,156.67	7,426.13	6,190.11	55.75	79.90	19.09	1,561.56	3,473.82	1,774.02	1,680.48	93.54	18.966		
7,850.00	7,203.34	7,473.06	6,226.77	56.05	80.52	6.82	1,573.77	3,500.45	1,784.97	1,691.36	93.61	19.067		
7,900.00	7,249.95	7,518.77	6,262.48	56.30	81.13	-5.36	1,585.68	3,526.39	1,795.38	1,701.90	93.48	19.206		
7,950.00	7,296.14	7,562.93	6,296.98	56.50	81.72	-16.25	1,597.18	3,551.45	1,805.28	1,712.13	93.14	19.382		
8,000.00	7,341.56	7,605.20	6,330.00	56.64	82.28	-25.30	1,608.18	3,575.43	1,814.72	1,722.11	92.61	19.596		
8,050.00	7,385.86	7,645.26	6,361.28	56.74	82.82	-32.53	1,618.61	3,598.16	1,823.78	1,731.89	91.89	19.847		
8,100.00	7,428.71	7,682.79	6,390.60	56.79	83.31	-38.21	1,628.38	3,619.46	1,832.56	1,741.56	91.01	20.137		
8,150.00	7,469.77	7,717.52	6,417.73	56.80	83.78	-42.65	1,637.43	3,639.16	1,841.16	1,751.19	89.97	20.464		
8,200.00	7,508.75	7,749.18	6,442.47	56.77	84.20	-46.12	1,645.67	3,657.13	1,849.67	1,760.87	88.81	20.828		
8,250.00	7,545.33	7,777.53	6,464.61	56.70	84.57	-48.82	1,653.05	3,673.22	1,858.21	1,770.66	87.54	21.226		
8,300.00	7,579.25	7,802.35	6,484.00	56.59	84.90	-50.88	1,659.52	3,687.30	1,866.85	1,780.65	86.21	21.656		
8,350.00	7,610.24	7,823.46	6,500.49	56.45	85.19	-52.39	1,665.01	3,699.28	1,875.68	1,790.86	84.82	22.113		
8,400.00	7,638.06	7,840.70	6,513.96	56.28	85.41	-53.43	1,669.50	3,709.06	1,884.75	1,801.32	83.43	22.590		
8,450.00	7,662.52	7,853.92	6,524.29	56.09	85.59	-54.04	1,672.94	3,716.56	1,894.10	1,812.04	82.06	23.082		
8,500.00	7,683.41	7,863.04	6,531.41	55.88	85.71	-54.26	1,675.32	3,721.74	1,903.74	1,823.00	80.74	23.578		
8,550.00	7,700.59	7,867.99	6,535.27	55.64	85.78	-54.13	1,676.61	3,724.54	1,913.65	1,834.14	79.50	24.070		
8,600.00	7,713.91	7,868.72	6,535.84	55.39	85.79	-53.66	1,676.80	3,724.96	1,923.78	1,845.41	78.37	24.547		
8,650.00	7,723.29	7,865.22	6,533.12	55.14	85.74	-52.89	1,675.89	3,722.98	1,934.06	1,856.69	77.36	24.999		
8,700.00	7,728.64	7,857.54	6,527.11	54.87	85.64	-51.84	1,673.89	3,718.62	1,944.38	1,867.89	76.50	25.418		
8,740.83	7,730.00	7,848.19	6,519.81	54.65	85.51	-50.80	1,671.45	3,713.31	1,952.76	1,876.87	75.89	25.730		
8,800.00	7,730.00	7,832.67	6,507.69	54.33	85.31	-50.36	1,667.41	3,704.51	1,965.62	1,890.41	75.21	26.136		
8,900.00	7,730.00	7,806.44	6,487.20	53.82	84.96	-49.60	1,660.58	3,689.62	1,990.88	1,916.34	74.54	26.708		
9,000.00	7,730.00	7,780.21	6,466.71	53.33	84.61	-48.85	1,653.75	3,674.74	2,020.44	1,945.97	74.47	27.131		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,753.98	6,446.22	52.87	84.26	-48.09	1,646.92	3,659.85	2,054.11	1,979.19	74.93	27.415		
9,200.00	7,730.00	7,727.75	6,425.72	52.44	83.91	-47.34	1,640.09	3,644.97	2,091.70	2,015.86	75.84	27.580		
9,300.00	7,730.00	7,701.52	6,405.23	52.03	83.56	-46.59	1,633.26	3,630.08	2,132.99	2,055.87	77.13	27.656		
9,400.00	7,730.00	7,675.29	6,384.74	51.65	83.21	-45.85	1,626.43	3,615.20	2,177.78	2,099.08	78.70	27.672		
9,500.00	7,730.00	7,649.05	6,364.25	51.29	82.87	-45.11	1,619.60	3,600.32	2,225.85	2,145.37	80.48	27.657		
9,600.00	7,730.00	7,622.82	6,343.76	50.95	82.52	-44.37	1,612.77	3,585.43	2,277.00	2,194.60	82.40	27.634		
9,700.00	7,730.00	7,603.41	6,323.27	50.64	82.26	-43.63	1,605.94	3,570.55	2,331.03	2,246.59	84.44	27.605		
9,800.00	7,730.00	10,814.08	7,730.00	50.35	97.96	-90.05	211.25	4,586.07	2,359.31	2,275.08	84.22	28.012		
9,900.00	7,730.00	10,914.08	7,730.00	50.09	97.78	-90.05	111.25	4,585.73	2,359.31	2,274.60	84.71	27.851		
10,000.00	7,730.00	11,014.08	7,730.00	49.86	97.62	-90.05	11.25	4,585.39	2,359.31	2,273.97	85.35	27.644		
10,100.00	7,730.00	11,114.08	7,730.00	49.65	97.48	-90.05	-88.75	4,585.05	2,359.31	2,273.19	86.12	27.396		
10,200.00	7,730.00	11,214.08	7,730.00	49.48	97.34	-90.05	-188.75	4,584.71	2,359.32	2,272.29	87.03	27.109		
10,300.00	7,730.00	11,314.08	7,730.00	49.35	97.23	-90.05	-288.75	4,584.38	2,359.32	2,271.24	88.07	26.788		
10,400.00	7,730.00	11,414.08	7,730.00	49.27	97.13	-90.05	-388.75	4,584.04	2,359.32	2,270.08	89.25	26.436		
10,500.00	7,730.00	11,514.08	7,730.00	49.26	97.04	-90.05	-488.75	4,583.70	2,359.32	2,268.78	90.54	26.058		
10,600.00	7,730.00	11,614.08	7,730.00	49.32	96.98	-90.05	-588.75	4,583.36	2,359.33	2,267.37	91.95	25.658		
10,700.00	7,730.00	11,714.08	7,730.00	49.51	96.92	-90.05	-688.75	4,583.02	2,359.33	2,265.85	93.48	25.239		
10,800.00	7,730.00	11,814.08	7,730.00	49.83	96.89	-90.05	-788.75	4,582.68	2,359.33	2,264.22	95.11	24.807		
10,900.00	7,730.00	11,914.08	7,730.00	50.31	96.88	-90.05	-888.74	4,582.34	2,359.33	2,262.49	96.84	24.363		
11,000.00	7,730.00	12,014.08	7,730.00	50.96	96.88	-90.05	-988.74	4,582.01	2,359.34	2,260.67	98.67	23.911		
11,100.00	7,730.00	12,114.08	7,730.00	51.75	96.90	-90.05	-1,088.74	4,581.67	2,359.34	2,258.75	100.59	23.455		
11,200.00	7,730.00	12,214.08	7,730.00	52.66	96.94	-90.05	-1,188.74	4,581.33	2,359.34	2,256.75	102.59	22.997		
11,300.00	7,730.00	12,314.08	7,730.00	53.67	97.01	-90.05	-1,288.74	4,580.99	2,359.34	2,254.67	104.68	22.539		
11,400.00	7,730.00	12,414.08	7,730.00	54.75	97.09	-90.05	-1,388.74	4,580.65	2,359.35	2,252.51	106.84	22.083		
11,500.00	7,730.00	12,514.08	7,730.00	55.89	97.20	-90.05	-1,488.74	4,580.31	2,359.35	2,250.28	109.07	21.631		
11,600.00	7,730.00	12,614.08	7,730.00	57.07	97.33	-90.05	-1,588.74	4,579.98	2,359.35	2,247.98	111.37	21.184		
11,700.00	7,730.00	12,714.08	7,730.00	58.30	97.49	-90.05	-1,688.74	4,579.64	2,359.35	2,245.62	113.73	20.744		
11,800.00	7,730.00	12,814.08	7,730.00	59.55	97.67	-90.05	-1,788.74	4,579.30	2,359.36	2,243.20	116.16	20.312		
11,900.00	7,730.00	12,914.08	7,730.00	60.84	97.88	-90.05	-1,888.74	4,578.96	2,359.36	2,240.73	118.63	19.888		
12,000.00	7,730.00	13,014.08	7,730.00	62.15	98.12	-90.05	-1,988.74	4,578.62	2,359.36	2,238.20	121.16	19.473		
12,100.00	7,730.00	13,114.08	7,730.00	63.49	98.39	-90.05	-2,088.74	4,578.28	2,359.36	2,235.62	123.74	19.067		
12,200.00	7,730.00	13,214.08	7,730.00	64.85	98.69	-90.05	-2,188.74	4,577.94	2,359.37	2,233.00	126.37	18.671		
12,300.00	7,730.00	13,314.08	7,730.00	66.22	99.03	-90.05	-2,288.74	4,577.61	2,359.37	2,230.34	129.03	18.285		
12,400.00	7,730.00	13,414.08	7,730.00	67.62	99.39	-90.05	-2,388.74	4,577.27	2,359.37	2,227.63	131.74	17.909		
12,500.00	7,730.00	13,514.08	7,730.00	69.03	99.80	-90.05	-2,488.74	4,576.93	2,359.37	2,224.89	134.49	17.543		
12,600.00	7,730.00	13,614.08	7,730.00	70.45	100.24	-90.05	-2,588.73	4,576.59	2,359.38	2,222.11	137.27	17.188		
12,700.00	7,730.00	13,714.08	7,730.00	71.90	100.72	-90.05	-2,688.73	4,576.25	2,359.38	2,219.29	140.09	16.842		
12,800.00	7,730.00	13,814.08	7,730.00	73.35	101.23	-90.05	-2,788.73	4,575.91	2,359.38	2,216.45	142.93	16.507		
12,900.00	7,730.00	13,914.08	7,730.00	74.81	101.79	-90.05	-2,888.73	4,575.58	2,359.38	2,213.57	145.81	16.181		
13,000.00	7,730.00	14,014.08	7,730.00	76.29	102.38	-90.05	-2,988.73	4,575.24	2,359.39	2,210.67	148.72	15.865		
13,100.00	7,730.00	14,114.08	7,730.00	77.78	103.02	-90.05	-3,088.73	4,574.90	2,359.39	2,207.74	151.65	15.558		
13,200.00	7,730.00	14,214.08	7,730.00	79.28	103.70	-90.05	-3,188.73	4,574.56	2,359.39	2,204.78	154.61	15.260		
13,300.00	7,730.00	14,314.08	7,730.00	80.79	104.42	-90.05	-3,288.73	4,574.22	2,359.39	2,201.80	157.59	14.972		
13,400.00	7,730.00	14,414.08	7,730.00	82.31	105.18	-90.05	-3,388.73	4,573.88	2,359.40	2,198.80	160.59	14.692		
13,500.00	7,730.00	14,514.08	7,730.00	83.84	105.98	-90.05	-3,488.73	4,573.54	2,359.40	2,195.78	163.62	14.420		
13,600.00	7,730.00	14,614.08	7,730.00	85.37	106.82	-90.05	-3,588.73	4,573.21	2,359.40	2,192.74	166.66	14.157		
13,700.00	7,730.00	14,714.08	7,730.00	86.92	107.70	-90.05	-3,688.73	4,572.87	2,359.40	2,189.68	169.73	13.901		
13,800.00	7,730.00	14,814.08	7,730.00	88.47	108.61	-90.05	-3,788.73	4,572.53	2,359.41	2,186.60	172.81	13.653		
13,900.00	7,730.00	14,914.08	7,730.00	90.03	109.57	-90.05	-3,888.73	4,572.19	2,359.41	2,183.50	175.91	13.413		
14,000.00	7,730.00	15,014.08	7,730.00	91.59	110.56	-90.05	-3,988.73	4,571.85	2,359.41	2,180.39	179.02	13.179		
14,100.00	7,730.00	15,114.08	7,730.00	93.16	111.58	-90.05	-4,088.73	4,571.51	2,359.41	2,177.26	182.15	12.953		
14,200.00	7,730.00	15,214.08	7,730.00	94.74	112.64	-90.05	-4,188.73	4,571.18	2,359.42	2,174.12	185.30	12.733		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	15,314.08	7,730.00	96.33	113.72	-90.05	-4,288.73	4,570.84	2,359.42	2,170.96	188.46	12.520		
14,400.00	7,730.00	15,414.08	7,730.00	97.92	114.84	-90.05	-4,388.72	4,570.50	2,359.42	2,167.79	191.63	12.313		
14,500.00	7,730.00	15,514.08	7,730.00	99.51	115.99	-90.05	-4,488.72	4,570.16	2,359.42	2,164.61	194.81	12.111		
14,600.00	7,730.00	15,614.08	7,730.00	101.11	117.16	-90.05	-4,588.72	4,569.82	2,359.43	2,161.42	198.01	11.916		
14,700.00	7,730.00	15,714.08	7,730.00	102.72	118.36	-90.05	-4,688.72	4,569.48	2,359.43	2,158.22	201.21	11.726		
14,800.00	7,730.00	15,814.08	7,730.00	104.33	119.58	-90.05	-4,788.72	4,569.14	2,359.43	2,155.00	204.43	11.541		
14,900.00	7,730.00	15,914.08	7,730.00	105.94	120.83	-90.05	-4,888.72	4,568.81	2,359.43	2,151.77	207.66	11.362		
15,000.00	7,730.00	16,014.08	7,730.00	107.56	122.09	-90.05	-4,988.72	4,568.47	2,359.44	2,148.54	210.90	11.188		
15,100.00	7,730.00	16,114.08	7,730.00	109.18	123.38	-90.05	-5,088.72	4,568.13	2,359.44	2,145.29	214.14	11.018		
15,200.00	7,730.00	16,214.08	7,730.00	110.81	124.69	-90.05	-5,188.72	4,567.79	2,359.44	2,142.04	217.40	10.853		
15,300.00	7,730.00	16,314.08	7,730.00	112.44	126.01	-90.05	-5,288.72	4,567.45	2,359.44	2,138.78	220.67	10.692		
15,400.00	7,730.00	16,414.08	7,730.00	114.08	127.35	-90.05	-5,388.72	4,567.11	2,359.45	2,135.51	223.94	10.536		
15,500.00	7,730.00	16,514.08	7,730.00	115.72	128.71	-90.05	-5,488.72	4,566.78	2,359.45	2,132.23	227.22	10.384		
15,600.00	7,730.00	16,614.08	7,730.00	117.36	130.08	-90.05	-5,588.72	4,566.44	2,359.45	2,128.94	230.51	10.236		
15,700.00	7,730.00	16,714.08	7,730.00	119.00	131.47	-90.05	-5,688.72	4,566.10	2,359.45	2,125.65	233.80	10.092		
15,800.00	7,730.00	16,814.08	7,730.00	120.65	132.87	-90.05	-5,788.72	4,565.76	2,359.46	2,122.35	237.11	9.951		
15,900.00	7,730.00	16,914.08	7,730.00	122.30	134.29	-90.05	-5,888.72	4,565.42	2,359.46	2,119.04	240.41	9.814		
16,000.00	7,730.00	17,014.08	7,730.00	123.96	135.71	-90.05	-5,988.72	4,565.08	2,359.46	2,115.73	243.73	9.681		
16,100.00	7,730.00	17,114.08	7,730.00	125.61	137.15	-90.05	-6,088.71	4,564.74	2,359.46	2,112.41	247.05	9.551		
16,200.00	7,730.00	17,214.08	7,730.00	127.27	138.60	-90.05	-6,188.71	4,564.41	2,359.47	2,109.09	250.38	9.424		
16,300.00	7,730.00	17,314.08	7,730.00	128.94	140.06	-90.05	-6,288.71	4,564.07	2,359.47	2,105.76	253.71	9.300		
16,400.00	7,730.00	17,414.08	7,730.00	130.60	141.53	-90.05	-6,388.71	4,563.73	2,359.47	2,102.42	257.05	9.179		
16,500.00	7,730.00	17,514.08	7,730.00	132.27	143.01	-90.05	-6,488.71	4,563.39	2,359.47	2,099.08	260.39	9.061		
16,600.00	7,730.00	17,614.08	7,730.00	133.94	144.49	-90.05	-6,588.71	4,563.05	2,359.48	2,095.74	263.74	8.946		
16,700.00	7,730.00	17,714.08	7,730.00	135.61	145.99	-90.05	-6,688.71	4,562.71	2,359.48	2,092.39	267.09	8.834		
16,800.00	7,730.00	17,814.08	7,730.00	137.28	147.49	-90.05	-6,788.71	4,562.38	2,359.48	2,089.03	270.45	8.724		
16,900.00	7,730.00	17,914.08	7,730.00	138.96	149.01	-90.05	-6,888.71	4,562.04	2,359.48	2,085.67	273.81	8.617		
17,000.00	7,730.00	18,014.08	7,730.00	140.64	150.52	-90.05	-6,988.71	4,561.70	2,359.49	2,082.31	277.18	8.512		
17,100.00	7,730.00	18,114.08	7,730.00	142.32	152.05	-90.05	-7,088.71	4,561.36	2,359.49	2,078.94	280.55	8.410		
17,200.00	7,730.00	18,214.08	7,730.00	144.00	153.58	-90.05	-7,188.71	4,561.02	2,359.49	2,075.57	283.92	8.310		
17,300.00	7,730.00	18,314.08	7,730.00	145.69	155.12	-90.05	-7,288.71	4,560.68	2,359.49	2,072.19	287.30	8.213		
17,400.00	7,730.00	18,414.08	7,730.00	147.37	156.67	-90.05	-7,388.71	4,560.34	2,359.50	2,068.81	290.69	8.117		
17,500.00	7,730.00	18,514.08	7,730.00	149.06	158.22	-90.05	-7,488.71	4,560.01	2,359.50	2,065.43	294.07	8.024		
17,600.00	7,730.00	18,614.08	7,730.00	150.75	159.77	-90.05	-7,588.71	4,559.67	2,359.50	2,062.04	297.46	7.932		
17,700.00	7,730.00	18,714.08	7,730.00	152.44	161.33	-90.05	-7,688.71	4,559.33	2,359.50	2,058.65	300.85	7.843		
17,800.00	7,730.00	18,814.08	7,730.00	154.13	162.90	-90.05	-7,788.71	4,558.99	2,359.51	2,055.26	304.25	7.755		
17,900.00	7,730.00	18,914.08	7,730.00	155.83	164.47	-90.05	-7,888.70	4,558.65	2,359.51	2,051.86	307.65	7.670		
18,000.00	7,730.00	19,014.08	7,730.00	157.52	166.05	-90.05	-7,988.70	4,558.31	2,359.51	2,048.46	311.05	7.586		
18,100.00	7,730.00	19,114.08	7,730.00	159.22	167.63	-90.05	-8,088.70	4,557.98	2,359.51	2,045.06	314.45	7.504		
18,200.00	7,730.00	19,214.08	7,730.00	160.92	169.22	-90.05	-8,188.70	4,557.64	2,359.52	2,041.65	317.86	7.423		
18,300.00	7,730.00	19,314.08	7,730.00	162.62	170.81	-90.05	-8,288.70	4,557.30	2,359.52	2,038.25	321.27	7.344		
18,400.00	7,730.00	19,414.08	7,730.00	164.32	172.40	-90.05	-8,388.70	4,556.96	2,359.52	2,034.84	324.68	7.267		
18,400.17	7,730.00	19,414.25	7,730.00	164.32	172.40	-90.05	-8,388.87	4,556.96	2,359.52	2,034.83	324.69	7.267		
18,426.22	7,730.00	19,430.54	7,730.00	164.76	172.66	-90.05	-8,405.16	4,556.90	2,359.54	2,033.82	325.72	7.244 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	2.00	-2.00	0.00	0.00	90.26	-0.36	80.08	80.08					
100.00	100.00	102.00	98.00	0.13	0.14	90.26	-0.36	80.08	80.08	79.81	0.28	290.126		
200.00	200.00	202.00	198.00	0.49	0.50	90.26	-0.36	80.08	80.08	79.09	0.99	80.649		
300.00	300.00	302.00	298.00	0.85	0.86	90.26	-0.36	80.08	80.08	78.37	1.71	46.834		
400.00	400.00	398.00	398.00	1.21	1.20	90.26	-0.36	80.08	80.08	77.67	2.41	33.194	CC, ES	
500.00	500.00	495.52	495.50	1.57	1.55	89.81	0.26	81.54	81.58	78.47	3.12	26.174		
600.00	600.00	592.76	592.62	1.93	1.89	88.54	2.20	86.04	86.23	82.41	3.82	22.588		
700.00	700.00	689.56	689.07	2.29	2.25	86.69	5.41	93.51	94.09	89.58	4.52	20.837		
800.00	800.00	785.71	784.54	2.64	2.61	84.57	9.88	103.90	105.23	100.02	5.21	20.200		
900.00	900.00	880.99	878.73	3.00	2.99	82.43	15.55	117.09	119.68	113.78	5.90	20.297		
1,000.00	1,000.00	975.20	971.34	3.36	3.39	80.45	22.38	132.95	137.43	130.85	6.57	20.903		
1,100.00	1,100.00	1,068.17	1,062.13	3.72	3.81	78.68	30.29	151.34	158.45	151.21	7.24	21.875		
1,200.00	1,200.00	1,159.73	1,150.86	4.08	4.26	77.16	39.21	172.08	182.68	174.78	7.90	23.134		
1,300.00	1,299.98	1,250.16	1,237.74	4.43	4.73	28.71	49.12	195.11	208.56	200.03	8.54	24.427		
1,400.00	1,399.84	1,339.85	1,323.08	4.79	5.24	27.91	60.01	220.44	234.53	225.37	9.17	25.584		
1,500.00	1,499.45	1,428.81	1,406.83	5.15	5.79	27.48	71.85	247.96	260.52	250.72	9.79	26.605		
1,600.00	1,598.70	1,517.04	1,488.95	5.51	6.37	27.30	84.61	277.61	286.46	276.05	10.42	27.503		
1,700.00	1,697.47	1,604.57	1,569.39	5.89	6.99	27.32	98.24	309.31	312.35	301.31	11.04	28.293		
1,800.00	1,795.62	1,691.41	1,648.11	6.28	7.65	27.48	112.72	342.97	338.17	326.50	11.67	28.980		
1,900.00	1,893.06	1,777.56	1,725.08	6.69	8.36	27.75	128.01	378.52	363.89	351.58	12.31	29.569		
2,000.00	1,989.64	1,863.05	1,800.28	7.13	9.12	28.11	144.08	415.87	389.53	376.57	12.96	30.064		
2,100.00	2,085.27	1,947.88	1,873.66	7.61	9.91	28.53	160.90	454.96	415.07	401.44	13.62	30.466		
2,200.00	2,179.82	2,032.08	1,945.21	8.12	10.75	29.00	178.43	495.72	440.52	426.20	14.31	30.775		
2,300.00	2,273.17	2,115.65	2,014.92	8.67	11.62	29.51	196.64	538.06	465.87	450.84	15.03	30.989		
2,400.00	2,365.21	2,198.61	2,082.76	9.27	12.54	30.06	215.51	581.93	491.13	475.35	15.79	31.106		
2,500.00	2,455.84	2,280.98	2,148.71	9.92	13.51	30.63	235.01	627.25	516.31	499.72	16.59	31.118		
2,580.62	2,527.80	2,346.97	2,200.51	10.49	14.32	31.10	251.16	664.80	536.54	519.27	17.28	31.057		
2,600.00	2,544.97	2,362.76	2,212.77	10.63	14.52	31.27	255.10	673.95	541.45	524.01	17.44	31.039		
2,700.00	2,633.58	2,447.89	2,277.96	11.37	15.61	32.07	276.73	724.24	568.33	549.92	18.41	30.868		
2,800.00	2,722.19	2,543.66	2,350.86	12.13	16.87	32.88	301.27	781.28	596.00	576.39	19.61	30.386		
2,900.00	2,810.80	2,639.42	2,423.77	12.91	18.14	33.61	325.81	838.33	623.78	602.93	20.85	29.915		
3,000.00	2,899.41	2,735.19	2,496.67	13.71	19.43	34.29	350.35	895.38	651.64	629.52	22.12	29.459		
3,100.00	2,988.02	2,830.96	2,569.58	14.52	20.72	34.91	374.89	952.42	679.58	656.16	23.42	29.022		
3,200.00	3,076.63	2,926.73	2,642.48	15.34	22.01	35.48	399.43	1,009.47	707.58	682.85	24.74	28.605		
3,300.00	3,165.24	3,022.50	2,715.38	16.16	23.32	36.00	423.96	1,066.52	735.65	709.57	26.08	28.209		
3,400.00	3,253.85	3,118.27	2,788.29	17.00	24.62	36.49	448.50	1,123.56	763.77	736.33	27.44	27.835		
3,500.00	3,342.46	3,214.03	2,861.19	17.84	25.94	36.95	473.04	1,180.61	791.94	763.12	28.82	27.482		
3,600.00	3,431.07	3,309.80	2,934.10	18.69	27.25	37.37	497.58	1,237.66	820.15	789.94	30.21	27.148		
3,700.00	3,519.68	3,405.57	3,007.00	19.55	28.57	37.76	522.12	1,294.70	848.39	816.78	31.62	26.834		
3,800.00	3,608.29	3,501.34	3,079.91	20.40	29.89	38.13	546.66	1,351.75	876.68	843.64	33.04	26.537		
3,900.00	3,696.90	3,602.89	3,152.81	21.26	31.29	38.48	571.20	1,408.79	904.99	870.48	34.51	26.226		
4,000.00	3,785.51	3,707.12	3,225.72	22.13	32.73	38.80	595.74	1,465.84	933.34	897.33	36.01	25.919		
4,100.00	3,874.12	3,788.64	3,298.62	23.00	33.86	39.11	620.28	1,522.89	961.70	924.35	37.35	25.746		
4,200.00	3,962.73	3,884.41	3,371.53	23.87	35.18	39.40	644.82	1,579.93	990.10	951.29	38.81	25.511		
4,300.00	4,051.34	3,980.18	3,444.43	24.74	36.51	39.67	669.36	1,636.98	1,018.51	978.24	40.28	25.288		
4,400.00	4,139.95	4,075.95	3,517.34	25.62	37.84	39.93	693.90	1,694.03	1,046.95	1,005.20	41.75	25.078		
4,500.00	4,228.56	4,171.72	3,590.24	26.49	39.17	40.17	718.44	1,751.07	1,075.40	1,032.18	43.22	24.879		
4,600.00	4,317.17	4,267.48	3,663.15	27.37	40.50	40.41	742.98	1,808.12	1,103.87	1,059.16	44.71	24.691		
4,700.00	4,405.78	4,363.25	3,736.05	28.25	41.84	40.63	767.51	1,865.17	1,132.36	1,086.16	46.20	24.512		
4,800.00	4,494.39	4,459.02	3,808.96	29.13	43.17	40.83	792.05	1,922.21	1,160.86	1,113.17	47.69	24.342		
4,900.00	4,583.00	4,554.79	3,881.86	30.02	44.50	41.03	816.59	1,979.26	1,189.37	1,140.19	49.19	24.180		
5,000.00	4,671.61	4,650.56	3,954.76	30.90	45.84	41.22	841.13	2,036.30	1,217.90	1,167.21	50.69	24.026		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,746.33	4,027.67	31.79	47.17	41.41	865.67	2,093.35	1,246.44	1,194.24	52.20	23.880		
5,200.00	4,848.83	4,842.09	4,100.57	32.67	48.51	41.58	890.21	2,150.40	1,274.99	1,221.29	53.71	23.740		
5,300.00	4,937.44	4,937.86	4,173.48	33.56	49.85	41.74	914.75	2,207.44	1,303.55	1,248.33	55.22	23.607		
5,400.00	5,026.05	5,033.63	4,246.38	34.45	51.18	41.90	939.29	2,264.49	1,332.12	1,275.39	56.73	23.480		
5,500.00	5,114.66	5,129.40	4,319.29	35.34	52.52	42.05	963.83	2,321.54	1,360.70	1,302.45	58.25	23.359		
5,600.00	5,203.27	5,225.17	4,392.19	36.23	53.86	42.20	988.37	2,378.58	1,389.29	1,329.51	59.77	23.242		
5,700.00	5,291.88	5,320.94	4,465.10	37.12	55.20	42.34	1,012.91	2,435.63	1,417.88	1,356.58	61.30	23.131		
5,800.00	5,380.50	5,416.70	4,538.00	38.01	56.53	42.47	1,037.45	2,492.68	1,446.48	1,383.66	62.82	23.024		
5,900.00	5,469.11	5,512.47	4,610.91	38.90	57.87	42.60	1,061.99	2,549.72	1,475.09	1,410.74	64.35	22.922		
6,000.00	5,557.72	5,608.24	4,683.81	39.79	59.21	42.73	1,086.53	2,606.77	1,503.71	1,437.83	65.88	22.824		
6,100.00	5,646.33	5,704.01	4,756.72	40.68	60.55	42.85	1,111.06	2,663.81	1,532.33	1,464.92	67.42	22.730		
6,200.00	5,734.94	5,799.78	4,829.62	41.58	61.89	42.96	1,135.60	2,720.86	1,560.96	1,492.01	68.95	22.639		
6,300.00	5,823.55	5,904.45	4,902.53	42.47	63.35	43.07	1,160.14	2,777.91	1,589.59	1,519.04	70.56	22.529		
6,400.00	5,912.16	5,991.31	4,975.43	43.36	64.57	43.18	1,184.68	2,834.95	1,618.23	1,546.21	72.02	22.468		
6,500.00	6,000.77	6,087.08	5,048.34	44.26	65.91	43.28	1,209.22	2,892.00	1,646.88	1,573.31	73.56	22.387		
6,600.00	6,089.38	6,182.85	5,121.24	45.15	67.25	43.38	1,233.76	2,949.05	1,675.53	1,600.42	75.10	22.309		
6,700.00	6,177.99	6,278.62	5,194.14	46.05	68.59	43.48	1,258.30	3,006.09	1,704.18	1,627.53	76.65	22.234		
6,800.00	6,266.60	6,374.39	5,267.05	46.94	69.93	43.57	1,282.84	3,063.14	1,732.84	1,654.65	78.19	22.162		
6,900.00	6,355.21	6,470.16	5,339.95	47.84	71.27	43.66	1,307.38	3,120.19	1,761.50	1,681.76	79.73	22.092		
7,000.00	6,443.82	6,565.92	5,412.86	48.74	72.61	43.75	1,331.92	3,177.23	1,790.16	1,708.88	81.28	22.025		
7,100.00	6,532.43	6,661.69	5,485.76	49.63	73.95	43.83	1,356.46	3,234.28	1,818.83	1,736.01	82.83	21.959		
7,200.00	6,621.04	6,757.46	5,558.67	50.53	75.29	43.92	1,381.00	3,291.32	1,847.51	1,763.13	84.38	21.896		
7,300.00	6,709.65	6,853.23	5,631.57	51.42	76.64	43.99	1,405.54	3,348.37	1,876.18	1,790.26	85.92	21.835		
7,400.00	6,798.26	6,949.00	5,704.48	52.32	77.98	44.07	1,430.08	3,405.42	1,904.86	1,817.39	87.47	21.776		
7,500.00	6,886.87	7,044.76	5,777.38	53.22	79.32	44.15	1,454.61	3,462.46	1,933.54	1,844.52	89.03	21.719		
7,600.00	6,975.48	7,140.53	5,850.29	54.12	80.66	44.22	1,479.15	3,519.51	1,962.23	1,871.65	90.58	21.663		
7,656.30	7,025.36	7,205.55	5,891.33	54.62	81.57	44.26	1,492.97	3,551.62	1,978.38	1,886.84	91.54	21.611		
7,700.00	7,064.54	7,236.34	5,923.22	55.00	82.00	38.38	1,503.70	3,576.58	1,990.78	1,898.72	92.06	21.625		
7,750.00	7,110.29	7,284.15	5,959.62	55.40	82.67	29.62	1,515.95	3,605.06	2,004.56	1,911.99	92.57	21.654		
7,800.00	7,156.67	7,331.48	5,995.65	55.75	83.34	18.83	1,528.08	3,633.25	2,017.84	1,924.95	92.89	21.722		
7,850.00	7,203.34	7,377.97	6,031.04	56.05	83.99	6.81	1,539.99	3,660.95	2,030.59	1,937.57	93.01	21.831		
7,900.00	7,249.95	7,423.28	6,065.53	56.30	84.62	-5.12	1,551.60	3,687.93	2,042.77	1,949.83	92.94	21.979		
7,950.00	7,296.14	7,467.05	6,098.85	56.50	85.24	-15.76	1,562.82	3,714.01	2,054.40	1,961.73	92.68	22.167		
8,000.00	7,341.56	7,508.95	6,130.75	56.64	85.82	-24.55	1,573.56	3,738.96	2,065.51	1,973.28	92.23	22.395		
8,050.00	7,385.86	7,548.66	6,160.98	56.74	86.38	-31.53	1,583.73	3,762.62	2,076.15	1,984.53	91.62	22.661		
8,100.00	7,428.71	7,585.89	6,189.32	56.79	86.90	-36.97	1,593.27	3,784.79	2,086.37	1,995.52	90.85	22.966		
8,150.00	7,469.77	7,620.34	6,215.54	56.80	87.39	-41.19	1,602.10	3,805.32	2,096.24	2,006.31	89.93	23.308		
8,200.00	7,508.75	7,651.76	6,239.46	56.77	87.83	-44.46	1,610.15	3,824.03	2,105.84	2,016.94	88.90	23.687		
8,250.00	7,545.33	7,679.90	6,260.88	56.70	88.22	-46.99	1,617.36	3,840.79	2,115.24	2,027.47	87.77	24.099		
8,300.00	7,579.25	7,704.55	6,279.65	56.59	88.57	-48.90	1,623.68	3,855.48	2,124.50	2,037.93	86.57	24.541		
8,350.00	7,610.24	7,725.53	6,295.62	56.45	88.86	-50.31	1,629.05	3,867.98	2,133.68	2,048.36	85.32	25.009		
8,400.00	7,638.06	7,742.67	6,308.67	56.28	89.10	-51.29	1,633.44	3,878.19	2,142.82	2,058.78	84.04	25.496		
8,450.00	7,662.52	7,755.85	6,318.70	56.09	89.28	-51.89	1,636.82	3,886.04	2,151.94	2,069.17	82.78	25.997		
8,500.00	7,683.41	7,764.96	6,325.64	55.88	89.41	-52.14	1,639.15	3,891.46	2,161.06	2,079.51	81.55	26.501		
8,550.00	7,700.59	7,769.93	6,329.43	55.64	89.48	-52.08	1,640.43	3,894.43	2,170.15	2,089.77	80.37	27.001		
8,600.00	7,713.91	7,770.73	6,330.04	55.39	89.49	-51.73	1,640.63	3,894.90	2,179.16	2,099.89	79.28	27.488		
8,650.00	7,723.29	7,767.36	6,327.46	55.14	89.45	-51.13	1,639.77	3,892.89	2,188.05	2,109.77	78.28	27.951		
8,700.00	7,728.64	7,759.82	6,321.73	54.87	89.34	-50.29	1,637.84	3,888.40	2,196.72	2,119.32	77.40	28.382		
8,740.83	7,730.00	7,750.63	6,314.73	54.65	89.21	-49.44	1,635.48	3,882.93	2,203.57	2,126.81	76.77	28.705		
8,800.00	7,730.00	7,735.35	6,303.10	54.33	89.00	-49.05	1,631.57	3,873.82	2,214.03	2,138.02	76.01	29.129		
8,900.00	7,730.00	7,709.52	6,283.44	53.82	88.64	-48.40	1,624.95	3,858.44	2,234.91	2,159.76	75.15	29.738		
9,000.00	7,730.00	7,683.69	6,263.78	53.33	88.27	-47.74	1,618.33	3,843.06	2,259.74	2,184.91	74.83	30.198		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,657.87	6,244.11	52.87	87.91	-47.09	1,611.71	3,827.67	2,288.38	2,213.38	75.00	30.513		
9,200.00	7,730.00	7,632.04	6,224.45	52.44	87.55	-46.43	1,605.10	3,812.29	2,320.69	2,245.08	75.61	30.694		
9,300.00	7,730.00	7,606.22	6,204.79	52.03	87.19	-45.78	1,598.48	3,796.90	2,356.52	2,279.92	76.60	30.765		
9,400.00	7,730.00	7,580.39	6,185.13	51.65	86.83	-45.13	1,591.86	3,781.52	2,395.71	2,317.81	77.90	30.753		
9,500.00	7,730.00	7,554.56	6,165.47	51.29	86.46	-44.49	1,585.24	3,766.14	2,438.10	2,358.65	79.46	30.685		
9,600.00	7,730.00	7,528.74	6,145.81	50.95	86.10	-43.84	1,578.63	3,750.75	2,483.53	2,402.34	81.19	30.588		
9,700.00	7,730.00	7,502.91	6,126.15	50.64	85.74	-43.19	1,572.01	3,735.37	2,531.83	2,448.77	83.06	30.482		
9,800.00	7,730.00	7,477.08	6,106.49	50.35	85.38	-42.55	1,565.39	3,719.98	2,582.85	2,497.84	85.01	30.383		
9,900.00	7,730.00	7,451.26	6,086.83	50.09	85.02	-41.91	1,558.77	3,704.60	2,636.41	2,549.42	87.00	30.304		
10,000.00	7,730.00	11,103.57	7,630.00	49.86	105.20	-87.91	10.21	4,905.13	2,680.84	2,593.28	87.57	30.615		
10,100.00	7,730.00	11,203.57	7,630.00	49.65	105.06	-87.91	-89.79	4,904.79	2,680.85	2,592.50	88.35	30.345		
10,200.00	7,730.00	11,303.57	7,630.00	49.48	104.93	-87.91	-189.79	4,904.46	2,680.85	2,591.59	89.26	30.035		
10,300.00	7,730.00	11,403.57	7,630.00	49.35	104.81	-87.91	-289.79	4,904.12	2,680.86	2,590.55	90.30	29.688		
10,400.00	7,730.00	11,503.57	7,630.00	49.27	104.71	-87.91	-389.79	4,903.78	2,680.86	2,589.39	91.47	29.309		
10,500.00	7,730.00	11,603.57	7,630.00	49.26	104.62	-87.91	-489.79	4,903.44	2,680.86	2,588.11	92.75	28.903		
10,600.00	7,730.00	11,703.57	7,630.00	49.32	104.55	-87.91	-589.79	4,903.11	2,680.87	2,586.71	94.16	28.472		
10,700.00	7,730.00	11,803.57	7,630.00	49.51	104.49	-87.91	-689.79	4,902.77	2,680.87	2,585.20	95.67	28.023		
10,800.00	7,730.00	11,903.57	7,630.00	49.83	104.45	-87.91	-789.79	4,902.43	2,680.88	2,583.59	97.28	27.557		
10,900.00	7,730.00	12,003.57	7,630.00	50.31	104.43	-87.91	-889.79	4,902.10	2,680.88	2,581.88	99.00	27.079		
11,000.00	7,730.00	12,103.57	7,630.00	50.96	104.42	-87.91	-989.79	4,901.76	2,680.88	2,580.07	100.81	26.593		
11,100.00	7,730.00	12,203.57	7,630.00	51.75	104.42	-87.91	-1,089.79	4,901.42	2,680.89	2,578.18	102.71	26.101		
11,200.00	7,730.00	12,303.57	7,630.00	52.66	104.45	-87.91	-1,189.78	4,901.09	2,680.89	2,576.20	104.69	25.607		
11,300.00	7,730.00	12,403.57	7,630.00	53.67	104.49	-87.91	-1,289.78	4,900.75	2,680.90	2,574.14	106.76	25.112		
11,400.00	7,730.00	12,503.57	7,630.00	54.75	104.55	-87.91	-1,389.78	4,900.41	2,680.90	2,572.00	108.90	24.619		
11,500.00	7,730.00	12,603.57	7,630.00	55.89	104.63	-87.91	-1,489.78	4,900.08	2,680.90	2,569.80	111.10	24.129		
11,600.00	7,730.00	12,703.57	7,630.00	57.07	104.73	-87.91	-1,589.78	4,899.74	2,680.91	2,567.53	113.38	23.645		
11,700.00	7,730.00	12,803.57	7,630.00	58.30	104.85	-87.91	-1,689.78	4,899.40	2,680.91	2,565.19	115.72	23.167		
11,800.00	7,730.00	12,903.57	7,630.00	59.55	104.99	-87.91	-1,789.78	4,899.06	2,680.92	2,562.80	118.12	22.697		
11,900.00	7,730.00	13,003.57	7,630.00	60.84	105.16	-87.91	-1,889.78	4,898.73	2,680.92	2,560.35	120.57	22.235		
12,000.00	7,730.00	13,103.57	7,630.00	62.15	105.35	-87.91	-1,989.78	4,898.39	2,680.92	2,557.85	123.07	21.783		
12,100.00	7,730.00	13,203.57	7,630.00	63.49	105.56	-87.91	-2,089.78	4,898.05	2,680.93	2,555.30	125.63	21.340		
12,200.00	7,730.00	13,303.57	7,630.00	64.85	105.80	-87.91	-2,189.78	4,897.72	2,680.93	2,552.70	128.23	20.907		
12,300.00	7,730.00	13,403.57	7,630.00	66.22	106.07	-87.91	-2,289.78	4,897.38	2,680.94	2,550.06	130.87	20.485		
12,400.00	7,730.00	13,503.57	7,630.00	67.62	106.37	-87.91	-2,389.78	4,897.04	2,680.94	2,547.38	133.56	20.073		
12,500.00	7,730.00	13,603.57	7,630.00	69.03	106.69	-87.91	-2,489.78	4,896.71	2,680.94	2,544.66	136.28	19.672		
12,600.00	7,730.00	13,703.57	7,630.00	70.45	107.05	-87.91	-2,589.78	4,896.37	2,680.95	2,541.91	139.04	19.282		
12,700.00	7,730.00	13,803.57	7,630.00	71.90	107.43	-87.91	-2,689.78	4,896.03	2,680.95	2,539.12	141.83	18.902		
12,800.00	7,730.00	13,903.57	7,630.00	73.35	107.85	-87.91	-2,789.78	4,895.69	2,680.96	2,536.30	144.66	18.533		
12,900.00	7,730.00	14,003.57	7,630.00	74.81	108.30	-87.91	-2,889.77	4,895.36	2,680.96	2,533.45	147.51	18.174		
13,000.00	7,730.00	14,103.57	7,630.00	76.29	108.78	-87.91	-2,989.77	4,895.02	2,680.96	2,530.56	150.40	17.826		
13,100.00	7,730.00	14,203.57	7,630.00	77.78	109.30	-87.91	-3,089.77	4,894.68	2,680.97	2,527.66	153.31	17.487		
13,200.00	7,730.00	14,303.57	7,630.00	79.28	109.86	-87.91	-3,189.77	4,894.35	2,680.97	2,524.72	156.25	17.159		
13,300.00	7,730.00	14,403.57	7,630.00	80.79	110.45	-87.91	-3,289.77	4,894.01	2,680.98	2,521.77	159.21	16.840		
13,400.00	7,730.00	14,503.57	7,630.00	82.31	111.08	-87.91	-3,389.77	4,893.67	2,680.98	2,518.79	162.19	16.530		
13,500.00	7,730.00	14,603.57	7,630.00	83.84	111.75	-87.91	-3,489.77	4,893.34	2,680.98	2,515.79	165.20	16.229		
13,600.00	7,730.00	14,703.57	7,630.00	85.37	112.45	-87.91	-3,589.77	4,893.00	2,680.99	2,512.77	168.22	15.937		
13,700.00	7,730.00	14,803.57	7,630.00	86.92	113.19	-87.91	-3,689.77	4,892.66	2,680.99	2,509.72	171.27	15.654		
13,800.00	7,730.00	14,903.57	7,630.00	88.47	113.97	-87.91	-3,789.77	4,892.33	2,681.00	2,506.67	174.33	15.379		
13,900.00	7,730.00	15,003.57	7,630.00	90.03	114.78	-87.91	-3,889.77	4,891.99	2,681.00	2,503.59	177.41	15.112		
14,000.00	7,730.00	15,103.57	7,630.00	91.59	115.63	-87.91	-3,989.77	4,891.65	2,681.00	2,500.50	180.51	14.853		
14,100.00	7,730.00	15,203.57	7,630.00	93.16	116.52	-87.91	-4,089.77	4,891.31	2,681.01	2,497.39	183.62	14.601		
14,200.00	7,730.00	15,303.57	7,630.00	94.74	117.43	-87.91	-4,189.77	4,890.98	2,681.01	2,494.26	186.75	14.356		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	15,403.57	7,630.00	96.33	118.39	-87.91	-4,289.77	4,890.64	2,681.02	2,491.13	189.89	14.119		
14,400.00	7,730.00	15,503.57	7,630.00	97.92	119.37	-87.91	-4,389.77	4,890.30	2,681.02	2,487.97	193.04	13.888		
14,500.00	7,730.00	15,603.57	7,630.00	99.51	120.39	-87.91	-4,489.77	4,889.97	2,681.02	2,484.81	196.21	13.664		
14,600.00	7,730.00	15,703.57	7,630.00	101.11	121.44	-87.91	-4,589.77	4,889.63	2,681.03	2,481.63	199.39	13.446		
14,700.00	7,730.00	15,803.57	7,630.00	102.72	122.52	-87.91	-4,689.76	4,889.29	2,681.03	2,478.45	202.59	13.234		
14,800.00	7,730.00	15,903.57	7,630.00	104.33	123.62	-87.91	-4,789.76	4,888.96	2,681.04	2,475.25	205.79	13.028		
14,900.00	7,730.00	16,003.57	7,630.00	105.94	124.75	-87.91	-4,889.76	4,888.62	2,681.04	2,472.04	209.00	12.828		
15,000.00	7,730.00	16,103.57	7,630.00	107.56	125.91	-87.91	-4,989.76	4,888.28	2,681.04	2,468.82	212.23	12.633		
15,100.00	7,730.00	16,203.57	7,630.00	109.18	127.09	-87.91	-5,089.76	4,887.95	2,681.05	2,465.59	215.46	12.443		
15,200.00	7,730.00	16,303.57	7,630.00	110.81	128.30	-87.91	-5,189.76	4,887.61	2,681.05	2,462.35	218.70	12.259		
15,300.00	7,730.00	16,403.57	7,630.00	112.44	129.53	-87.91	-5,289.76	4,887.27	2,681.06	2,459.10	221.95	12.079		
15,400.00	7,730.00	16,503.57	7,630.00	114.08	130.78	-87.91	-5,389.76	4,886.93	2,681.06	2,455.85	225.21	11.905		
15,500.00	7,730.00	16,603.57	7,630.00	115.72	132.04	-87.91	-5,489.76	4,886.60	2,681.06	2,452.58	228.48	11.734		
15,600.00	7,730.00	16,703.57	7,630.00	117.36	133.33	-87.91	-5,589.76	4,886.26	2,681.07	2,449.31	231.76	11.568		
15,700.00	7,730.00	16,803.57	7,630.00	119.00	134.64	-87.91	-5,689.76	4,885.92	2,681.07	2,446.03	235.04	11.407		
15,800.00	7,730.00	16,903.57	7,630.00	120.65	135.96	-87.91	-5,789.76	4,885.59	2,681.08	2,442.75	238.33	11.249		
15,900.00	7,730.00	17,003.57	7,630.00	122.30	137.30	-87.91	-5,889.76	4,885.25	2,681.08	2,439.45	241.63	11.096		
16,000.00	7,730.00	17,103.57	7,630.00	123.96	138.65	-87.91	-5,989.76	4,884.91	2,681.08	2,436.15	244.93	10.946		
16,100.00	7,730.00	17,203.57	7,630.00	125.61	140.02	-87.91	-6,089.76	4,884.58	2,681.09	2,432.85	248.24	10.800		
16,200.00	7,730.00	17,303.57	7,630.00	127.27	141.41	-87.91	-6,189.76	4,884.24	2,681.09	2,429.53	251.56	10.658		
16,300.00	7,730.00	17,403.57	7,630.00	128.94	142.80	-87.91	-6,289.76	4,883.90	2,681.10	2,426.22	254.88	10.519		
16,400.00	7,730.00	17,503.57	7,630.00	130.60	144.21	-87.91	-6,389.76	4,883.57	2,681.10	2,422.89	258.21	10.384		
16,500.00	7,730.00	17,603.57	7,630.00	132.27	145.63	-87.91	-6,489.75	4,883.23	2,681.10	2,419.56	261.54	10.251		
16,600.00	7,730.00	17,703.57	7,630.00	133.94	147.06	-87.91	-6,589.75	4,882.89	2,681.11	2,416.23	264.88	10.122		
16,700.00	7,730.00	17,803.57	7,630.00	135.61	148.51	-87.91	-6,689.75	4,882.55	2,681.11	2,412.89	268.22	9.996		
16,800.00	7,730.00	17,903.57	7,630.00	137.28	149.96	-87.91	-6,789.75	4,882.22	2,681.12	2,409.55	271.57	9.873		
16,900.00	7,730.00	18,003.57	7,630.00	138.96	151.42	-87.91	-6,889.75	4,881.88	2,681.12	2,406.20	274.92	9.752		
17,000.00	7,730.00	18,103.57	7,630.00	140.64	152.89	-87.91	-6,989.75	4,881.54	2,681.12	2,402.85	278.28	9.635		
17,100.00	7,730.00	18,203.57	7,630.00	142.32	154.37	-87.91	-7,089.75	4,881.21	2,681.13	2,399.49	281.64	9.520		
17,200.00	7,730.00	18,303.57	7,630.00	144.00	155.86	-87.91	-7,189.75	4,880.87	2,681.13	2,396.13	285.00	9.407		
17,300.00	7,730.00	18,403.57	7,630.00	145.69	157.36	-87.91	-7,289.75	4,880.53	2,681.14	2,392.76	288.37	9.297		
17,400.00	7,730.00	18,503.57	7,630.00	147.37	158.86	-87.91	-7,389.75	4,880.20	2,681.14	2,389.39	291.75	9.190		
17,500.00	7,730.00	18,603.57	7,630.00	149.06	160.38	-87.91	-7,489.75	4,879.86	2,681.14	2,386.02	295.12	9.085		
17,600.00	7,730.00	18,703.57	7,630.00	150.75	161.89	-87.91	-7,589.75	4,879.52	2,681.15	2,382.64	298.50	8.982		
17,700.00	7,730.00	18,803.57	7,630.00	152.44	163.42	-87.91	-7,689.75	4,879.19	2,681.15	2,379.26	301.89	8.881		
17,800.00	7,730.00	18,903.57	7,630.00	154.13	164.95	-87.91	-7,789.75	4,878.85	2,681.16	2,375.88	305.27	8.783		
17,900.00	7,730.00	19,003.57	7,630.00	155.83	166.49	-87.91	-7,889.75	4,878.51	2,681.16	2,372.50	308.66	8.686		
18,000.00	7,730.00	19,103.57	7,630.00	157.52	168.03	-87.91	-7,989.75	4,878.17	2,681.16	2,369.11	312.06	8.592		
18,100.00	7,730.00	19,203.57	7,630.00	159.22	169.58	-87.91	-8,089.75	4,877.84	2,681.17	2,365.71	315.45	8.499		
18,200.00	7,730.00	19,303.57	7,630.00	160.92	171.14	-87.91	-8,189.74	4,877.50	2,681.17	2,362.32	318.85	8.409		
18,300.00	7,730.00	19,403.57	7,630.00	162.62	172.70	-87.91	-8,289.74	4,877.16	2,681.18	2,358.92	322.26	8.320		
18,400.00	7,730.00	19,503.57	7,630.00	164.32	174.26	-87.91	-8,389.74	4,876.83	2,681.18	2,355.52	325.66	8.233		
18,400.00	7,730.00	19,503.57	7,630.00	164.32	174.26	-87.91	-8,389.74	4,876.83	2,681.18	2,355.52	325.66	8.233		
18,426.22	7,730.00	19,518.56	7,630.00	164.76	174.50	-87.91	-8,404.73	4,876.78	2,681.20	2,354.51	326.69	8.207 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	2.00	-2.00	0.00	0.00	90.23	-0.36	90.16	90.16					
100.00	100.00	102.00	98.00	0.13	0.14	90.23	-0.36	90.16	90.16	89.89	0.28	326.645		
200.00	200.00	202.00	198.00	0.49	0.50	90.23	-0.36	90.16	90.16	89.17	0.99	90.800		
300.00	300.00	298.00	298.00	0.85	0.84	90.23	-0.36	90.16	90.16	88.47	1.70	53.175 CC, ES		
400.00	400.00	395.19	395.17	1.21	1.19	89.86	0.22	91.63	91.67	89.27	2.40	38.198		
500.00	500.00	492.10	491.96	1.57	1.54	88.79	2.03	96.14	96.35	93.25	3.10	31.058		
600.00	600.00	588.58	588.09	1.93	1.89	87.21	5.04	103.64	104.23	100.43	3.80	27.409		
700.00	700.00	684.40	683.25	2.29	2.26	85.38	9.22	114.06	115.38	110.88	4.50	25.639		
800.00	800.00	779.36	777.13	2.64	2.64	83.49	14.53	127.30	129.81	124.62	5.19	25.006		
900.00	900.00	873.28	869.46	3.00	3.04	81.69	20.92	143.22	147.53	141.65	5.88	25.111		
1,000.00	1,000.00	965.96	959.98	3.36	3.47	80.06	28.32	161.68	168.49	161.94	6.55	25.723		
1,100.00	1,100.00	1,057.24	1,048.46	3.72	3.92	78.64	36.68	182.51	192.64	185.42	7.22	26.692		
1,200.00	1,200.00	1,146.98	1,134.70	4.08	4.40	77.41	45.91	205.52	219.90	212.03	7.86	27.963		
1,300.00	1,299.98	1,235.50	1,218.96	4.43	4.92	29.13	55.99	230.67	248.73	240.23	8.50	29.258		
1,400.00	1,399.84	1,323.24	1,301.62	4.79	5.46	28.42	66.94	257.97	277.60	268.48	9.13	30.420		
1,500.00	1,499.45	1,410.20	1,382.62	5.15	6.04	28.01	78.72	287.33	306.43	296.68	9.75	31.439		
1,600.00	1,598.70	1,496.40	1,461.93	5.51	6.66	27.84	91.29	318.68	335.18	324.81	10.37	32.330		
1,700.00	1,697.47	1,581.86	1,539.51	5.89	7.33	27.84	104.62	351.93	363.82	352.83	10.99	33.103		
1,800.00	1,795.62	1,666.59	1,615.35	6.28	8.03	27.96	118.69	386.99	392.35	380.73	11.62	33.769		
1,900.00	1,893.06	1,750.61	1,689.41	6.69	8.78	28.19	133.46	423.81	420.73	408.48	12.25	34.334		
2,000.00	1,989.64	1,833.92	1,761.67	7.13	9.56	28.49	148.89	462.29	448.98	436.08	12.90	34.800		
2,100.00	2,085.27	1,916.56	1,832.12	7.61	10.38	28.85	164.96	502.37	477.08	463.52	13.57	35.167		
2,200.00	2,179.82	1,998.53	1,900.75	8.12	11.24	29.26	181.65	543.97	505.04	490.79	14.25	35.433		
2,300.00	2,273.17	2,079.84	1,967.53	8.67	12.15	29.70	198.92	587.02	532.86	517.89	14.97	35.591		
2,400.00	2,365.21	2,160.53	2,032.47	9.27	13.10	30.18	216.74	631.46	560.53	544.80	15.73	35.644		
2,500.00	2,455.84	2,240.59	2,095.55	9.92	14.09	30.68	235.10	677.22	588.05	571.53	16.52	35.593		
2,580.62	2,527.80	2,304.71	2,145.05	10.49	14.90	31.10	250.26	715.04	610.14	592.95	17.20	35.480		
2,600.00	2,544.97	2,320.05	2,156.76	10.63	15.10	31.26	253.95	724.24	615.49	598.13	17.36	35.449		
2,700.00	2,633.58	2,413.90	2,228.07	11.37	16.35	32.16	276.66	780.86	643.68	625.17	18.51	34.783		
2,800.00	2,722.19	2,509.35	2,300.59	12.13	17.63	32.99	299.77	838.46	672.01	652.30	19.71	34.087		
2,900.00	2,810.80	2,604.80	2,373.12	12.91	18.93	33.76	322.87	896.07	700.47	679.51	20.96	33.421		
3,000.00	2,899.41	2,700.25	2,445.64	13.71	20.23	34.47	345.97	953.67	729.03	706.80	22.24	32.787		
3,100.00	2,988.02	2,795.71	2,518.16	14.52	21.53	35.13	369.08	1,011.27	757.70	734.16	23.54	32.188		
3,200.00	3,076.63	2,891.16	2,590.69	15.34	22.84	35.74	392.18	1,068.87	786.44	761.57	24.87	31.624		
3,300.00	3,165.24	2,986.61	2,663.21	16.16	24.16	36.31	415.28	1,126.47	815.27	789.05	26.22	31.093		
3,400.00	3,253.85	3,082.07	2,735.73	17.00	25.48	36.84	438.38	1,184.08	844.16	816.57	27.59	30.594		
3,500.00	3,342.46	3,177.52	2,808.25	17.84	26.80	37.33	461.49	1,241.68	873.11	844.13	28.98	30.127		
3,600.00	3,431.07	3,272.97	2,880.78	18.69	28.13	37.79	484.59	1,299.28	902.12	871.74	30.39	29.688		
3,700.00	3,519.68	3,368.43	2,953.30	19.55	29.46	38.22	507.69	1,356.88	931.18	899.38	31.81	29.276		
3,800.00	3,608.29	3,463.88	3,025.82	20.40	30.79	38.63	530.80	1,414.48	960.29	927.05	33.24	28.890		
3,900.00	3,696.90	3,559.33	3,098.34	21.26	32.12	39.02	553.90	1,472.09	989.44	954.76	34.68	28.527		
4,000.00	3,785.51	3,654.79	3,170.87	22.13	33.45	39.38	577.00	1,529.69	1,018.63	982.49	36.14	28.186		
4,100.00	3,874.12	3,750.24	3,243.39	23.00	34.79	39.72	600.11	1,587.29	1,047.85	1,010.24	37.61	27.864		
4,200.00	3,962.73	3,845.69	3,315.91	23.87	36.12	40.04	623.21	1,644.89	1,077.10	1,038.02	39.08	27.562		
4,300.00	4,051.34	3,941.14	3,388.44	24.74	37.46	40.35	646.31	1,702.49	1,106.39	1,065.83	40.56	27.277		
4,400.00	4,139.95	4,036.60	3,460.96	25.62	38.80	40.64	669.42	1,760.10	1,135.70	1,093.65	42.05	27.007		
4,500.00	4,228.56	4,132.05	3,533.48	26.49	40.14	40.91	692.52	1,817.70	1,165.04	1,121.49	43.55	26.753		
4,600.00	4,317.17	4,227.50	3,606.00	27.37	41.48	41.17	715.62	1,875.30	1,194.40	1,149.35	45.05	26.512		
4,700.00	4,405.78	4,322.96	3,678.53	28.25	42.82	41.42	738.72	1,932.90	1,223.78	1,177.22	46.56	26.284		
4,800.00	4,494.39	4,418.41	3,751.05	29.13	44.16	41.66	761.83	1,990.50	1,253.18	1,205.11	48.07	26.068		
4,900.00	4,583.00	4,513.86	3,823.57	30.02	45.50	41.89	784.93	2,048.11	1,282.60	1,233.01	49.59	25.863		
5,000.00	4,671.61	4,609.32	3,896.09	30.90	46.85	42.11	808.03	2,105.71	1,312.04	1,260.92	51.12	25.668		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,704.77	3,968.62	31.79	48.19	42.31	831.14	2,163.31	1,341.50	1,288.85	52.64	25.483		
5,200.00	4,848.83	4,800.22	4,041.14	32.67	49.53	42.51	854.24	2,220.91	1,370.97	1,316.79	54.18	25.306		
5,300.00	4,937.44	4,904.33	4,113.66	33.56	51.00	42.70	877.34	2,278.51	1,400.45	1,344.67	55.78	25.107		
5,400.00	5,026.05	5,008.87	4,186.19	34.45	52.47	42.88	900.45	2,336.12	1,429.95	1,372.56	57.39	24.916		
5,500.00	5,114.66	5,086.58	4,258.71	35.34	53.57	43.06	923.55	2,393.72	1,459.46	1,400.67	58.79	24.824		
5,600.00	5,203.27	5,182.03	4,331.23	36.23	54.91	43.23	946.65	2,451.32	1,488.99	1,428.65	60.34	24.678		
5,700.00	5,291.88	5,277.49	4,403.75	37.12	56.26	43.39	969.76	2,508.92	1,518.52	1,456.63	61.89	24.538		
5,800.00	5,380.50	5,372.94	4,476.28	38.01	57.60	43.54	992.86	2,566.52	1,548.07	1,484.63	63.44	24.404		
5,900.00	5,469.11	5,468.39	4,548.80	38.90	58.95	43.69	1,015.96	2,624.13	1,577.62	1,512.63	64.99	24.275		
6,000.00	5,557.72	5,563.85	4,621.32	39.79	60.30	43.84	1,039.07	2,681.73	1,607.19	1,540.64	66.54	24.152		
6,100.00	5,646.33	5,659.30	4,693.84	40.68	61.64	43.98	1,062.17	2,739.33	1,636.76	1,568.66	68.10	24.034		
6,200.00	5,734.94	5,754.75	4,766.37	41.58	62.99	44.11	1,085.27	2,796.93	1,666.34	1,596.68	69.66	23.920		
6,300.00	5,823.55	5,850.21	4,838.89	42.47	64.34	44.24	1,108.37	2,854.53	1,695.93	1,624.71	71.22	23.811		
6,400.00	5,912.16	5,945.66	4,911.41	43.36	65.68	44.36	1,131.48	2,912.14	1,725.53	1,652.74	72.79	23.706		
6,500.00	6,000.77	6,041.11	4,983.93	44.26	67.03	44.48	1,154.58	2,969.74	1,755.13	1,680.78	74.35	23.605		
6,600.00	6,089.38	6,136.57	5,056.46	45.15	68.38	44.60	1,177.68	3,027.34	1,784.75	1,708.83	75.92	23.508		
6,700.00	6,177.99	6,232.02	5,128.98	46.05	69.73	44.71	1,200.79	3,084.94	1,814.36	1,736.88	77.49	23.415		
6,800.00	6,266.60	6,327.47	5,201.50	46.94	71.07	44.82	1,223.89	3,142.54	1,843.99	1,764.93	79.06	23.324		
6,900.00	6,355.21	6,422.92	5,274.03	47.84	72.42	44.93	1,246.99	3,200.15	1,873.62	1,792.99	80.63	23.237		
7,000.00	6,443.82	6,518.38	5,346.55	48.74	73.77	45.03	1,270.10	3,257.75	1,903.26	1,821.05	82.20	23.153		
7,100.00	6,532.43	6,613.83	5,419.07	49.63	75.12	45.13	1,293.20	3,315.35	1,932.90	1,849.12	83.78	23.072		
7,200.00	6,621.04	6,709.28	5,491.59	50.53	76.47	45.23	1,316.30	3,372.95	1,962.54	1,877.19	85.35	22.993		
7,300.00	6,709.65	6,804.74	5,564.12	51.42	77.82	45.32	1,339.41	3,430.55	1,992.19	1,905.26	86.93	22.917		
7,400.00	6,798.26	6,900.19	5,636.64	52.32	79.16	45.41	1,362.51	3,488.16	2,021.85	1,933.34	88.51	22.844		
7,500.00	6,886.87	7,004.36	5,709.16	53.22	80.64	45.50	1,385.61	3,545.76	2,051.51	1,961.35	90.16	22.754		
7,600.00	6,975.48	7,108.90	5,781.68	54.12	82.11	45.58	1,408.71	3,603.36	2,081.18	1,989.36	91.82	22.667		
7,656.30	7,025.36	7,144.83	5,822.51	54.62	82.62	45.63	1,421.72	3,635.79	2,097.88	2,005.32	92.56	22.666		
7,700.00	7,064.54	7,186.61	5,854.25	55.00	83.21	39.80	1,431.83	3,661.00	2,110.67	2,017.49	93.18	22.652		
7,750.00	7,110.29	7,234.35	5,890.52	55.40	83.89	31.09	1,443.39	3,689.81	2,124.80	2,031.08	93.72	22.672		
7,800.00	7,156.67	7,281.67	5,926.47	55.75	84.56	20.35	1,454.84	3,718.36	2,138.33	2,044.26	94.07	22.732		
7,850.00	7,203.34	7,328.21	5,961.84	56.05	85.21	8.36	1,466.11	3,746.45	2,151.19	2,056.97	94.23	22.830		
7,900.00	7,249.95	7,373.63	5,996.35	56.30	85.85	-3.54	1,477.10	3,773.86	2,163.38	2,069.18	94.20	22.967		
7,950.00	7,296.14	7,417.57	6,029.73	56.50	86.48	-14.17	1,487.73	3,800.38	2,174.88	2,080.90	93.98	23.142		
8,000.00	7,341.56	7,459.70	6,061.74	56.64	87.07	-22.96	1,497.93	3,825.80	2,185.73	2,092.14	93.59	23.355		
8,050.00	7,385.86	7,499.71	6,092.14	56.74	87.64	-29.94	1,507.61	3,849.94	2,195.95	2,102.93	93.02	23.606		
8,100.00	7,428.71	7,537.28	6,120.68	56.79	88.17	-35.40	1,516.71	3,872.61	2,205.62	2,113.31	92.31	23.895		
8,150.00	7,469.77	7,572.13	6,147.16	56.80	88.66	-39.67	1,525.14	3,893.64	2,214.78	2,123.34	91.44	24.220		
8,200.00	7,508.75	7,603.99	6,171.37	56.77	89.11	-43.00	1,532.85	3,912.87	2,223.52	2,133.06	90.46	24.580		
8,250.00	7,545.33	7,632.63	6,193.13	56.70	89.52	-45.60	1,539.79	3,930.16	2,231.90	2,142.54	89.37	24.974		
8,300.00	7,579.25	7,657.82	6,212.27	56.59	89.87	-47.62	1,545.88	3,945.36	2,240.00	2,151.81	88.19	25.399		
8,350.00	7,610.24	7,679.38	6,228.65	56.45	90.18	-49.15	1,551.10	3,958.37	2,247.87	2,160.91	86.96	25.849		
8,400.00	7,638.06	7,702.87	6,242.14	56.28	90.51	-50.27	1,555.40	3,969.08	2,255.56	2,169.83	85.73	26.309		
8,450.00	7,662.52	7,710.95	6,252.63	56.09	90.62	-51.02	1,558.74	3,977.42	2,263.11	2,178.69	84.42	26.809		
8,500.00	7,683.41	7,720.72	6,260.06	55.88	90.76	-51.45	1,561.11	3,983.32	2,270.53	2,187.37	83.16	27.304		
8,550.00	7,700.59	7,726.38	6,264.36	55.64	90.84	-51.58	1,562.48	3,986.73	2,277.82	2,195.88	81.94	27.799		
8,600.00	7,713.91	7,727.88	6,265.50	55.39	90.86	-51.44	1,562.84	3,987.64	2,284.96	2,204.17	80.78	28.285		
8,650.00	7,723.29	7,725.21	6,263.47	55.14	90.83	-51.05	1,562.19	3,986.02	2,291.90	2,212.19	79.71	28.752		
8,700.00	7,728.64	7,718.39	6,258.29	54.87	90.73	-50.43	1,560.54	3,981.91	2,298.58	2,219.84	78.74	29.193		
8,740.83	7,730.00	7,709.78	6,251.74	54.65	90.61	-49.77	1,558.46	3,976.71	2,303.78	2,225.76	78.02	29.528		
8,800.00	7,730.00	7,704.66	6,240.77	54.33	90.53	-49.42	1,554.96	3,968.00	2,311.83	2,234.65	77.18	29.954		
8,900.00	7,730.00	7,670.93	6,222.23	53.82	90.06	-48.83	1,549.05	3,953.27	2,328.58	2,252.56	76.02	30.632		
9,000.00	7,730.00	7,646.52	6,203.68	53.33	89.71	-48.24	1,543.15	3,938.54	2,349.22	2,273.80	75.42	31.149		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,622.11	6,185.13	52.87	89.37	-47.65	1,537.24	3,923.81	2,373.64	2,298.33	75.31	31.519		
9,200.00	7,730.00	7,597.70	6,166.59	52.44	89.02	-47.06	1,531.33	3,909.08	2,401.74	2,326.09	75.65	31.747		
9,300.00	7,730.00	7,573.29	6,148.04	52.03	88.68	-46.47	1,525.42	3,894.35	2,433.38	2,356.97	76.40	31.850		
9,400.00	7,730.00	7,548.88	6,129.50	51.65	88.33	-45.88	1,519.52	3,879.62	2,468.42	2,390.92	77.50	31.851		
9,500.00	7,730.00	7,524.47	6,110.95	51.29	87.99	-45.29	1,513.61	3,864.89	2,506.73	2,427.85	78.88	31.778		
9,600.00	7,730.00	7,500.06	6,092.41	50.95	87.64	-44.71	1,507.70	3,850.16	2,548.15	2,467.66	80.49	31.658		
9,700.00	7,730.00	7,475.65	6,073.86	50.64	87.30	-44.12	1,501.79	3,835.43	2,592.54	2,510.27	82.27	31.512		
9,800.00	7,730.00	7,451.24	6,055.32	50.35	86.95	-43.54	1,495.88	3,820.70	2,639.75	2,555.58	84.17	31.362		
9,900.00	7,730.00	7,426.83	6,036.77	50.09	86.61	-42.96	1,489.98	3,805.97	2,689.63	2,603.49	86.14	31.223		
10,000.00	7,730.00	7,402.43	6,018.22	49.86	86.26	-42.38	1,484.07	3,791.24	2,742.03	2,653.88	88.15	31.105		
10,100.00	7,730.00	7,378.02	5,999.68	49.65	85.92	-41.80	1,478.16	3,776.51	2,796.81	2,706.65	90.17	31.017		
10,200.00	7,730.00	7,353.61	5,981.13	49.48	85.57	-41.23	1,472.25	3,761.78	2,853.84	2,761.68	92.17	30.964		
10,300.00	7,730.00	7,329.20	5,962.59	49.35	85.23	-40.65	1,466.34	3,747.05	2,912.98	2,818.86	94.13	30.948		
10,400.00	7,730.00	7,304.79	5,944.04	49.27	84.88	-40.08	1,460.44	3,732.32	2,974.11	2,878.08	96.03	30.970		
10,500.00	7,730.00	11,975.83	7,870.00	49.26	112.37	-92.68	-490.92	5,253.43	3,032.39	2,941.63	90.75	33.414		
10,600.00	7,730.00	12,075.83	7,870.00	49.32	112.30	-92.68	-590.92	5,253.10	3,032.39	2,940.27	92.12	32.919		
10,700.00	7,730.00	12,175.83	7,870.00	49.51	112.25	-92.68	-690.92	5,252.76	3,032.40	2,938.80	93.60	32.399		
10,800.00	7,730.00	12,275.83	7,870.00	49.83	112.20	-92.68	-790.92	5,252.42	3,032.40	2,937.22	95.18	31.859		
10,900.00	7,730.00	12,375.83	7,870.00	50.31	112.18	-92.68	-890.92	5,252.09	3,032.41	2,935.54	96.87	31.304		
11,000.00	7,730.00	12,475.83	7,870.00	50.96	112.16	-92.68	-990.91	5,251.75	3,032.41	2,933.76	98.65	30.738		
11,100.00	7,730.00	12,575.83	7,870.00	51.75	112.16	-92.68	-1,090.91	5,251.42	3,032.42	2,931.89	100.53	30.163		
11,200.00	7,730.00	12,675.83	7,870.00	52.66	112.18	-92.68	-1,190.91	5,251.08	3,032.43	2,929.93	102.50	29.586		
11,300.00	7,730.00	12,775.83	7,870.00	53.67	112.22	-92.68	-1,290.91	5,250.75	3,032.43	2,927.89	104.54	29.007		
11,400.00	7,730.00	12,875.83	7,870.00	54.75	112.27	-92.68	-1,390.91	5,250.41	3,032.44	2,925.77	106.66	28.430		
11,500.00	7,730.00	12,975.83	7,870.00	55.89	112.34	-92.68	-1,490.91	5,250.08	3,032.44	2,923.58	108.86	27.856		
11,600.00	7,730.00	13,075.83	7,870.00	57.07	112.42	-92.68	-1,590.91	5,249.74	3,032.45	2,921.32	111.12	27.289		
11,700.00	7,730.00	13,175.83	7,870.00	58.30	112.53	-92.68	-1,690.91	5,249.41	3,032.45	2,919.00	113.45	26.729		
11,800.00	7,730.00	13,275.83	7,870.00	59.55	112.65	-92.68	-1,790.91	5,249.07	3,032.46	2,916.62	115.84	26.178		
11,900.00	7,730.00	13,375.83	7,870.00	60.84	112.79	-92.68	-1,890.91	5,248.74	3,032.46	2,914.18	118.28	25.637		
12,000.00	7,730.00	13,475.83	7,870.00	62.15	112.96	-92.68	-1,990.91	5,248.40	3,032.47	2,911.69	120.78	25.107		
12,100.00	7,730.00	13,575.83	7,870.00	63.49	113.14	-92.68	-2,090.91	5,248.07	3,032.48	2,909.14	123.33	24.588		
12,200.00	7,730.00	13,675.83	7,870.00	64.85	113.35	-92.68	-2,190.91	5,247.73	3,032.48	2,906.55	125.93	24.081		
12,300.00	7,730.00	13,775.83	7,870.00	66.22	113.57	-92.68	-2,290.91	5,247.40	3,032.49	2,903.92	128.57	23.587		
12,400.00	7,730.00	13,875.83	7,870.00	67.62	113.83	-92.68	-2,390.91	5,247.06	3,032.49	2,901.24	131.25	23.105		
12,500.00	7,730.00	13,975.83	7,870.00	69.03	114.10	-92.68	-2,490.91	5,246.72	3,032.50	2,898.53	133.97	22.636		
12,600.00	7,730.00	14,075.83	7,870.00	70.45	114.41	-92.68	-2,590.91	5,246.39	3,032.50	2,895.78	136.73	22.179		
12,700.00	7,730.00	14,175.83	7,870.00	71.90	114.74	-92.68	-2,690.91	5,246.05	3,032.51	2,892.99	139.52	21.736		
12,800.00	7,730.00	14,275.83	7,870.00	73.35	115.09	-92.68	-2,790.90	5,245.72	3,032.52	2,890.17	142.34	21.304		
12,900.00	7,730.00	14,375.83	7,870.00	74.81	115.48	-92.68	-2,890.90	5,245.38	3,032.52	2,887.32	145.20	20.885		
13,000.00	7,730.00	14,475.83	7,870.00	76.29	115.89	-92.68	-2,990.90	5,245.05	3,032.53	2,884.44	148.08	20.479		
13,100.00	7,730.00	14,575.83	7,870.00	77.78	116.33	-92.68	-3,090.90	5,244.71	3,032.53	2,881.54	150.99	20.084		
13,200.00	7,730.00	14,675.83	7,870.00	79.28	116.80	-92.68	-3,190.90	5,244.38	3,032.54	2,878.61	153.93	19.701		
13,300.00	7,730.00	14,775.83	7,870.00	80.79	117.31	-92.68	-3,290.90	5,244.04	3,032.54	2,875.65	156.89	19.329		
13,400.00	7,730.00	14,875.83	7,870.00	82.31	117.85	-92.68	-3,390.90	5,243.71	3,032.55	2,872.67	159.88	18.968		
13,500.00	7,730.00	14,975.83	7,870.00	83.84	118.41	-92.68	-3,490.90	5,243.37	3,032.56	2,869.67	162.88	18.618		
13,600.00	7,730.00	15,075.83	7,870.00	85.37	119.01	-92.68	-3,590.90	5,243.04	3,032.56	2,866.65	165.91	18.278		
13,700.00	7,730.00	15,175.83	7,870.00	86.92	119.65	-92.68	-3,690.90	5,242.70	3,032.57	2,863.61	168.96	17.949		
13,800.00	7,730.00	15,275.83	7,870.00	88.47	120.32	-92.68	-3,790.90	5,242.37	3,032.57	2,860.55	172.02	17.629		
13,900.00	7,730.00	15,375.83	7,870.00	90.03	121.02	-92.68	-3,890.90	5,242.03	3,032.58	2,857.47	175.10	17.319		
14,000.00	7,730.00	15,475.83	7,870.00	91.59	121.75	-92.68	-3,990.90	5,241.70	3,032.58	2,854.38	178.20	17.018		
14,100.00	7,730.00	15,575.83	7,870.00	93.16	122.52	-92.68	-4,090.90	5,241.36	3,032.59	2,851.27	181.32	16.725		
14,200.00	7,730.00	15,675.83	7,870.00	94.74	123.32	-92.68	-4,190.90	5,241.02	3,032.59	2,848.15	184.45	16.441		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	15,775.83	7,870.00	96.33	124.15	-92.68	-4,290.90	5,240.69	3,032.60	2,845.01	187.59	16.166		
14,400.00	7,730.00	15,875.83	7,870.00	97.92	125.02	-92.68	-4,390.90	5,240.35	3,032.61	2,841.86	190.75	15.898		
14,500.00	7,730.00	15,975.83	7,870.00	99.51	125.92	-92.68	-4,490.90	5,240.02	3,032.61	2,838.69	193.92	15.639		
14,600.00	7,730.00	16,075.83	7,870.00	101.11	126.85	-92.68	-4,590.89	5,239.68	3,032.62	2,835.52	197.10	15.386		
14,700.00	7,730.00	16,175.83	7,870.00	102.72	127.80	-92.68	-4,690.89	5,239.35	3,032.62	2,832.33	200.30	15.141		
14,800.00	7,730.00	16,275.83	7,870.00	104.33	128.79	-92.68	-4,790.89	5,239.01	3,032.63	2,829.13	203.50	14.902		
14,900.00	7,730.00	16,375.83	7,870.00	105.94	129.81	-92.68	-4,890.89	5,238.68	3,032.63	2,825.92	206.72	14.670		
15,000.00	7,730.00	16,475.83	7,870.00	107.56	130.85	-92.68	-4,990.89	5,238.34	3,032.64	2,822.70	209.94	14.445		
15,100.00	7,730.00	16,575.83	7,870.00	109.18	131.93	-92.68	-5,090.89	5,238.01	3,032.65	2,819.47	213.18	14.226		
15,200.00	7,730.00	16,675.83	7,870.00	110.81	133.02	-92.68	-5,190.89	5,237.67	3,032.65	2,816.23	216.42	14.013		
15,300.00	7,730.00	16,775.83	7,870.00	112.44	134.14	-92.68	-5,290.89	5,237.34	3,032.66	2,812.98	219.68	13.805		
15,400.00	7,730.00	16,875.83	7,870.00	114.08	135.29	-92.68	-5,390.89	5,237.00	3,032.66	2,809.72	222.94	13.603		
15,500.00	7,730.00	16,975.83	7,870.00	115.72	136.46	-92.68	-5,490.89	5,236.67	3,032.67	2,806.46	226.21	13.407		
15,600.00	7,730.00	17,075.83	7,870.00	117.36	137.65	-92.68	-5,590.89	5,236.33	3,032.67	2,803.19	229.49	13.215		
15,700.00	7,730.00	17,175.83	7,870.00	119.00	138.86	-92.68	-5,690.89	5,236.00	3,032.68	2,799.91	232.77	13.029		
15,800.00	7,730.00	17,275.83	7,870.00	120.65	140.09	-92.68	-5,790.89	5,235.66	3,032.69	2,796.62	236.06	12.847		
15,900.00	7,730.00	17,375.83	7,870.00	122.30	141.34	-92.68	-5,890.89	5,235.32	3,032.69	2,793.33	239.36	12.670		
16,000.00	7,730.00	17,475.83	7,870.00	123.96	142.61	-92.68	-5,990.89	5,234.99	3,032.70	2,790.03	242.67	12.497		
16,100.00	7,730.00	17,575.83	7,870.00	125.61	143.90	-92.68	-6,090.89	5,234.65	3,032.70	2,786.72	245.98	12.329		
16,200.00	7,730.00	17,675.83	7,870.00	127.27	145.20	-92.68	-6,190.89	5,234.32	3,032.71	2,783.41	249.30	12.165		
16,300.00	7,730.00	17,775.83	7,870.00	128.94	146.52	-92.68	-6,290.89	5,233.98	3,032.71	2,780.09	252.62	12.005		
16,400.00	7,730.00	17,875.83	7,870.00	130.60	147.86	-92.68	-6,390.88	5,233.65	3,032.72	2,776.77	255.95	11.849		
16,500.00	7,730.00	17,975.83	7,870.00	132.27	149.21	-92.68	-6,490.88	5,233.31	3,032.72	2,773.44	259.29	11.696		
16,600.00	7,730.00	18,075.83	7,870.00	133.94	150.57	-92.68	-6,590.88	5,232.98	3,032.73	2,770.10	262.63	11.548		
16,700.00	7,730.00	18,175.83	7,870.00	135.61	151.95	-92.68	-6,690.88	5,232.64	3,032.74	2,766.77	265.97	11.403		
16,800.00	7,730.00	18,275.83	7,870.00	137.28	153.33	-92.68	-6,790.88	5,232.31	3,032.74	2,763.42	269.32	11.261		
16,900.00	7,730.00	18,375.83	7,870.00	138.96	154.73	-92.68	-6,890.88	5,231.97	3,032.75	2,760.07	272.67	11.122		
17,000.00	7,730.00	18,475.83	7,870.00	140.64	156.15	-92.68	-6,990.88	5,231.64	3,032.75	2,756.72	276.03	10.987		
17,100.00	7,730.00	18,575.83	7,870.00	142.32	157.57	-92.68	-7,090.88	5,231.30	3,032.76	2,753.36	279.39	10.855		
17,200.00	7,730.00	18,675.83	7,870.00	144.00	159.00	-92.68	-7,190.88	5,230.97	3,032.76	2,750.00	282.76	10.726		
17,300.00	7,730.00	18,775.83	7,870.00	145.69	160.44	-92.68	-7,290.88	5,230.63	3,032.77	2,746.64	286.13	10.599		
17,400.00	7,730.00	18,875.83	7,870.00	147.37	161.90	-92.68	-7,390.88	5,230.30	3,032.78	2,743.27	289.51	10.476		
17,500.00	7,730.00	18,975.83	7,870.00	149.06	163.36	-92.68	-7,490.88	5,229.96	3,032.78	2,739.90	292.88	10.355		
17,600.00	7,730.00	19,075.83	7,870.00	150.75	164.83	-92.68	-7,590.88	5,229.62	3,032.79	2,736.52	296.27	10.237		
17,700.00	7,730.00	19,175.83	7,870.00	152.44	166.30	-92.68	-7,690.88	5,229.29	3,032.79	2,733.14	299.65	10.121		
17,800.00	7,730.00	19,275.83	7,870.00	154.13	167.79	-92.68	-7,790.88	5,228.95	3,032.80	2,729.76	303.04	10.008		
17,900.00	7,730.00	19,375.83	7,870.00	155.83	169.28	-92.68	-7,890.88	5,228.62	3,032.80	2,726.37	306.43	9.897		
18,000.00	7,730.00	19,475.83	7,870.00	157.52	170.79	-92.68	-7,990.88	5,228.28	3,032.81	2,722.98	309.83	9.789		
18,100.00	7,730.00	19,575.83	7,870.00	159.22	172.29	-92.68	-8,090.88	5,227.95	3,032.82	2,719.59	313.23	9.683		
18,200.00	7,730.00	19,675.83	7,870.00	160.92	173.81	-92.68	-8,190.87	5,227.61	3,032.82	2,716.19	316.63	9.579		
18,300.00	7,730.00	19,775.83	7,870.00	162.62	175.33	-92.68	-8,290.87	5,227.28	3,032.83	2,712.80	320.03	9.477		
18,400.00	7,730.00	19,875.83	7,870.00	164.32	176.86	-92.68	-8,390.87	5,226.94	3,032.83	2,709.40	323.44	9.377		
18,400.01	7,730.00	19,875.84	7,870.00	164.32	176.86	-92.68	-8,390.88	5,226.94	3,032.83	2,709.40	323.44	9.377		
18,426.22	7,730.00	19,889.26	7,870.00	164.76	177.06	-92.68	-8,404.30	5,226.90	3,032.86	2,708.40	324.46	9.348 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
0.00	0.00	2.00	-2.00	0.00	0.00	90.21	-0.36	99.96	99.96				
100.00	100.00	102.00	98.00	0.13	0.14	90.21	-0.36	99.96	99.96	99.69	0.28	362.149	
200.00	200.00	198.00	198.00	0.49	0.49	90.21	-0.36	99.96	99.96	98.98	0.98	102.145 CC, ES	
300.00	300.00	294.87	294.85	0.85	0.83	89.89	0.19	101.43	101.48	99.80	1.68	60.266	
400.00	400.00	391.46	391.32	1.21	1.18	88.97	1.90	105.94	106.17	103.78	2.39	44.444	
500.00	500.00	487.62	487.14	1.57	1.53	87.61	4.74	113.46	114.07	110.98	3.09	36.882	
600.00	600.00	583.14	582.00	1.93	1.90	85.99	8.68	123.89	125.22	121.43	3.79	33.004	
700.00	700.00	677.80	675.59	2.29	2.29	84.30	13.69	137.14	139.64	135.15	4.49	31.099	
800.00	800.00	771.42	767.64	2.64	2.70	82.66	19.72	153.09	157.31	152.13	5.18	30.372	
900.00	900.00	863.83	857.90	3.00	3.14	81.15	26.71	171.58	178.22	172.36	5.86	30.408	
1,000.00	1,000.00	954.84	946.14	3.36	3.60	79.81	34.60	192.45	202.29	195.76	6.53	30.957	
1,100.00	1,100.00	1,044.33	1,032.16	3.72	4.09	78.63	43.32	215.50	229.46	222.28	7.19	31.933	
1,200.00	1,200.00	1,132.15	1,115.79	4.08	4.60	77.62	52.79	240.57	259.65	251.81	7.84	33.116	
1,300.00	1,299.98	1,218.68	1,197.35	4.43	5.15	29.46	63.01	267.60	291.33	282.86	8.47	34.382	
1,400.00	1,399.84	1,304.40	1,277.24	4.79	5.73	28.80	73.99	296.63	322.98	313.89	9.09	35.517	
1,500.00	1,499.45	1,389.31	1,355.44	5.15	6.35	28.41	85.69	327.58	354.54	344.83	9.71	36.502	
1,600.00	1,598.70	1,473.44	1,431.92	5.51	7.02	28.23	98.09	360.38	385.97	375.64	10.33	37.357	
1,700.00	1,697.47	1,556.81	1,506.65	5.89	7.71	28.19	111.15	394.93	417.24	406.29	10.95	38.094	
1,800.00	1,795.62	1,639.42	1,579.61	6.28	8.45	28.27	124.85	431.16	448.34	436.76	11.58	38.723	
1,900.00	1,893.06	1,721.29	1,650.79	6.69	9.22	28.44	139.15	468.99	479.25	467.04	12.21	39.246	
2,000.00	1,989.64	1,802.45	1,720.18	7.13	10.03	28.69	154.04	508.36	509.96	497.10	12.86	39.667	
2,100.00	2,085.27	1,882.91	1,787.77	7.61	10.89	28.99	169.47	549.18	540.47	526.95	13.52	39.977	
2,200.00	2,179.82	1,962.68	1,853.55	8.12	11.78	29.33	185.43	591.40	570.78	556.58	14.21	40.181	
2,300.00	2,273.17	2,041.79	1,917.51	8.67	12.71	29.71	201.89	634.94	600.89	585.97	14.92	40.278	
2,400.00	2,365.21	2,120.25	1,979.66	9.27	13.67	30.12	218.83	679.74	630.79	615.13	15.67	40.267	
2,500.00	2,455.84	2,198.09	2,039.99	9.92	14.67	30.56	236.22	725.74	660.49	644.04	16.45	40.145	
2,580.62	2,527.80	2,260.40	2,087.30	10.49	15.51	30.92	250.55	763.65	684.28	667.16	17.12	39.960	
2,600.00	2,544.97	2,275.30	2,098.49	10.63	15.71	31.07	254.04	772.87	690.04	672.75	17.29	39.914	
2,700.00	2,633.58	2,351.53	2,154.90	11.37	16.78	31.77	272.17	820.82	721.28	703.12	18.16	39.717	
2,800.00	2,722.19	2,434.68	2,215.04	12.13	17.99	32.44	292.47	874.52	754.85	735.67	19.18	39.353	
2,900.00	2,810.80	2,528.29	2,282.51	12.91	19.36	33.12	315.42	935.23	788.90	768.49	20.41	38.652	
3,000.00	2,899.41	2,621.91	2,349.98	13.71	20.75	33.75	338.37	995.94	823.06	801.39	21.67	37.983	
3,100.00	2,988.02	2,715.52	2,417.44	14.52	22.14	34.33	361.32	1,056.65	857.29	834.33	22.95	37.348	
3,200.00	3,076.63	2,809.14	2,484.91	15.34	23.54	34.87	384.28	1,117.36	891.59	867.33	24.26	36.749	
3,300.00	3,165.24	2,902.76	2,552.38	16.16	24.95	35.36	407.23	1,178.06	925.96	900.37	25.59	36.183	
3,400.00	3,253.85	3,003.63	2,619.84	17.00	26.47	35.82	430.18	1,238.77	960.38	933.39	26.99	35.582	
3,500.00	3,342.46	3,089.99	2,687.31	17.84	27.77	36.25	453.13	1,299.48	994.86	966.56	28.30	35.151	
3,600.00	3,431.07	3,183.61	2,754.78	18.69	29.19	36.65	476.08	1,360.19	1,029.38	999.70	29.68	34.681	
3,700.00	3,519.68	3,277.22	2,822.24	19.55	30.61	37.03	499.03	1,420.90	1,063.95	1,032.87	31.07	34.240	
3,800.00	3,608.29	3,370.84	2,889.71	20.40	32.03	37.38	521.98	1,481.60	1,098.55	1,066.07	32.48	33.825	
3,900.00	3,696.90	3,464.45	2,957.18	21.26	33.46	37.71	544.94	1,542.31	1,133.18	1,099.29	33.89	33.436	
4,000.00	3,785.51	3,558.07	3,024.64	22.13	34.88	38.02	567.89	1,603.02	1,167.85	1,132.53	35.32	33.069	
4,100.00	3,874.12	3,651.69	3,092.11	23.00	36.31	38.31	590.84	1,663.73	1,202.54	1,165.80	36.75	32.723	
4,200.00	3,962.73	3,745.30	3,159.58	23.87	37.74	38.59	613.79	1,724.43	1,237.27	1,199.08	38.19	32.398	
4,300.00	4,051.34	3,838.92	3,227.05	24.74	39.17	38.85	636.74	1,785.14	1,272.01	1,232.37	39.64	32.090	
4,400.00	4,139.95	3,932.54	3,294.51	25.62	40.60	39.09	659.69	1,845.85	1,306.78	1,265.68	41.09	31.800	
4,500.00	4,228.56	4,026.15	3,361.98	26.49	42.03	39.33	682.65	1,906.56	1,341.57	1,299.01	42.56	31.525	
4,600.00	4,317.17	4,119.77	3,429.45	27.37	43.47	39.55	705.60	1,967.27	1,376.37	1,332.35	44.02	31.265	
4,700.00	4,405.78	4,213.38	3,496.91	28.25	44.90	39.76	728.55	2,027.97	1,411.20	1,365.70	45.49	31.019	
4,800.00	4,494.39	4,307.00	3,564.38	29.13	46.33	39.96	751.50	2,088.68	1,446.04	1,399.06	46.97	30.785	
4,900.00	4,583.00	4,400.62	3,631.85	30.02	47.77	40.15	774.45	2,149.39	1,480.89	1,432.44	48.45	30.563	
5,000.00	4,671.61	4,494.23	3,699.31	30.90	49.21	40.34	797.40	2,210.10	1,515.76	1,465.82	49.94	30.352	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,587.85	3,766.78	31.79	50.64	40.51	820.35	2,270.81	1,550.64	1,499.21	51.43	30.151		
5,200.00	4,848.83	4,681.47	3,834.25	32.67	52.08	40.68	843.31	2,331.51	1,585.54	1,532.61	52.92	29.960		
5,300.00	4,937.44	4,775.08	3,901.71	33.56	53.52	40.84	866.26	2,392.22	1,620.44	1,566.02	54.42	29.778		
5,400.00	5,026.05	4,868.70	3,969.18	34.45	54.95	40.99	889.21	2,452.93	1,655.36	1,599.44	55.92	29.604		
5,500.00	5,114.66	4,962.31	4,036.65	35.34	56.39	41.14	912.16	2,513.64	1,690.28	1,632.86	57.42	29.437		
5,600.00	5,203.27	5,055.93	4,104.11	36.23	57.83	41.28	935.11	2,574.35	1,725.22	1,666.29	58.93	29.278		
5,700.00	5,291.88	5,149.55	4,171.58	37.12	59.27	41.42	958.06	2,635.05	1,760.16	1,699.73	60.43	29.126		
5,800.00	5,380.50	5,243.16	4,239.05	38.01	60.71	41.55	981.01	2,695.76	1,795.11	1,733.17	61.94	28.980		
5,900.00	5,469.11	5,336.78	4,306.51	38.90	62.15	41.67	1,003.97	2,756.47	1,830.07	1,766.62	63.46	28.840		
6,000.00	5,557.72	5,430.39	4,373.98	39.79	63.59	41.79	1,026.92	2,817.18	1,865.04	1,800.07	64.97	28.706		
6,100.00	5,646.33	5,524.01	4,441.45	40.68	65.03	41.91	1,049.87	2,877.88	1,900.02	1,833.53	66.49	28.577		
6,200.00	5,734.94	5,617.63	4,508.91	41.58	66.47	42.02	1,072.82	2,938.59	1,935.00	1,866.99	68.01	28.454		
6,300.00	5,823.55	5,711.24	4,576.38	42.47	67.91	42.13	1,095.77	2,999.30	1,969.99	1,900.46	69.53	28.335		
6,400.00	5,912.16	5,804.86	4,643.85	43.36	69.35	42.23	1,118.72	3,060.01	2,004.98	1,933.93	71.05	28.220		
6,500.00	6,000.77	5,898.48	4,711.32	44.26	70.79	42.33	1,141.67	3,120.72	2,039.98	1,967.41	72.57	28.110		
6,600.00	6,089.38	6,007.91	4,778.78	45.15	72.48	42.43	1,164.63	3,181.42	2,074.98	2,000.75	74.23	27.954		
6,700.00	6,177.99	6,085.71	4,846.25	46.05	73.67	42.52	1,187.58	3,242.13	2,109.99	2,034.37	75.62	27.902		
6,800.00	6,266.60	6,179.32	4,913.72	46.94	75.12	42.61	1,210.53	3,302.84	2,145.01	2,067.86	77.15	27.803		
6,900.00	6,355.21	6,272.94	4,981.18	47.84	76.56	42.70	1,233.48	3,363.55	2,180.03	2,101.35	78.68	27.708		
7,000.00	6,443.82	6,366.56	5,048.65	48.74	78.00	42.79	1,256.43	3,424.26	2,215.05	2,134.84	80.21	27.616		
7,100.00	6,532.43	6,460.17	5,116.12	49.63	79.44	42.87	1,279.38	3,484.96	2,250.08	2,168.33	81.74	27.527		
7,200.00	6,621.04	6,553.79	5,183.58	50.53	80.88	42.95	1,302.33	3,545.67	2,285.11	2,201.83	83.27	27.441		
7,300.00	6,709.65	6,647.41	5,251.05	51.42	82.33	43.03	1,325.29	3,606.38	2,320.14	2,235.33	84.81	27.358		
7,400.00	6,798.26	6,741.02	5,318.52	52.32	83.77	43.10	1,348.24	3,667.09	2,355.18	2,268.84	86.34	27.277		
7,500.00	6,886.87	6,834.64	5,385.98	53.22	85.21	43.18	1,371.19	3,727.80	2,390.22	2,302.34	87.88	27.199		
7,600.00	6,975.48	6,928.25	5,453.45	54.12	86.65	43.25	1,394.14	3,788.50	2,425.27	2,335.85	89.42	27.124		
7,656.30	7,025.36	6,980.96	5,491.43	54.62	87.47	43.29	1,407.06	3,822.68	2,445.00	2,354.72	90.28	27.082		
7,700.00	7,064.54	7,021.92	5,520.95	55.00	88.10	37.74	1,417.10	3,849.24	2,460.20	2,369.31	90.89	27.068		
7,750.00	7,110.29	7,068.68	5,554.65	55.40	88.82	29.39	1,428.57	3,879.57	2,477.25	2,385.82	91.43	27.095		
7,800.00	7,156.67	7,115.01	5,588.04	55.75	89.53	19.03	1,439.93	3,909.61	2,493.81	2,402.02	91.79	27.168		
7,850.00	7,203.34	7,160.53	5,620.85	56.05	90.23	7.44	1,451.09	3,939.13	2,509.82	2,417.84	91.98	27.286		
7,900.00	7,249.95	7,204.92	5,652.84	56.30	90.92	-4.05	1,461.97	3,967.91	2,525.21	2,433.21	92.00	27.448		
7,950.00	7,296.14	7,247.83	5,683.76	56.50	91.58	-14.25	1,472.49	3,995.74	2,539.95	2,448.10	91.85	27.653		
8,000.00	7,341.56	7,288.93	5,713.38	56.64	92.21	-22.62	1,482.57	4,022.39	2,554.03	2,462.49	91.54	27.901		
8,050.00	7,385.86	7,327.91	5,741.47	56.74	92.81	-29.19	1,492.12	4,047.67	2,567.43	2,476.35	91.07	28.191		
8,100.00	7,428.71	7,364.48	5,767.83	56.79	93.38	-34.24	1,501.09	4,071.38	2,580.17	2,489.70	90.47	28.520		
8,150.00	7,469.77	7,401.65	5,792.24	56.80	93.95	-38.12	1,509.39	4,093.35	2,592.27	2,502.51	89.77	28.878		
8,200.00	7,508.75	7,429.27	5,814.52	56.77	94.37	-41.08	1,516.97	4,113.40	2,603.77	2,514.87	88.90	29.289		
8,250.00	7,545.33	7,457.00	5,834.51	56.70	94.80	-43.33	1,523.77	4,131.39	2,614.68	2,526.72	87.96	29.725		
8,300.00	7,579.25	7,481.34	5,852.05	56.59	95.18	-45.04	1,529.74	4,147.17	2,625.05	2,538.09	86.95	30.189		
8,350.00	7,610.24	7,502.09	5,867.00	56.45	95.50	-46.30	1,534.83	4,160.63	2,634.88	2,548.99	85.89	30.677		
8,400.00	7,638.06	7,519.11	5,879.26	56.28	95.76	-47.19	1,539.00	4,171.66	2,644.21	2,559.41	84.80	31.183		
8,450.00	7,662.52	7,532.25	5,888.73	56.09	95.96	-47.77	1,542.22	4,180.18	2,653.03	2,569.34	83.69	31.700		
8,500.00	7,683.41	7,541.42	5,895.34	55.88	96.10	-48.07	1,544.47	4,186.13	2,661.35	2,578.76	82.60	32.221		
8,550.00	7,700.59	7,546.55	5,899.04	55.64	96.18	-48.14	1,545.73	4,189.45	2,669.15	2,587.62	81.53	32.738		
8,600.00	7,713.91	7,547.60	5,899.80	55.39	96.20	-47.98	1,545.98	4,190.13	2,676.39	2,595.87	80.52	33.241		
8,650.00	7,723.29	7,544.56	5,897.61	55.14	96.15	-47.64	1,545.24	4,188.17	2,683.03	2,603.47	79.56	33.722		
8,700.00	7,728.64	7,537.46	5,892.49	54.87	96.04	-47.12	1,543.50	4,183.56	2,689.01	2,610.33	78.69	34.173		
8,740.83	7,730.00	7,528.69	5,886.17	54.65	95.91	-46.58	1,541.35	4,177.87	2,693.36	2,615.32	78.04	34.514		
8,800.00	7,730.00	7,514.05	5,875.62	54.33	95.68	-46.28	1,537.76	4,168.38	2,699.88	2,622.67	77.21	34.968		
8,900.00	7,730.00	7,489.31	5,857.79	53.82	95.30	-45.77	1,531.69	4,152.34	2,713.63	2,637.48	76.15	35.634		
9,000.00	7,730.00	7,464.57	5,839.96	53.33	94.92	-45.26	1,525.63	4,136.29	2,730.75	2,655.23	75.52	36.159		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,439.84	5,822.13	52.87	94.54	-44.75	1,519.56	4,120.25	2,751.17	2,675.87	75.31	36.533		
9,200.00	7,730.00	7,415.10	5,804.31	52.44	94.16	-44.24	1,513.50	4,104.21	2,774.83	2,699.35	75.48	36.760		
9,300.00	7,730.00	7,409.64	5,786.48	52.03	94.07	-43.73	1,507.43	4,088.17	2,801.64	2,725.50	76.14	36.795		
9,400.00	7,730.00	7,365.62	5,768.65	51.65	93.39	-43.22	1,501.37	4,072.13	2,831.52	2,754.63	76.89	36.825		
9,500.00	7,730.00	7,340.89	5,750.82	51.29	93.01	-42.71	1,495.30	4,056.09	2,864.36	2,786.33	78.04	36.705		
9,600.00	7,730.00	7,316.15	5,733.00	50.95	92.63	-42.20	1,489.24	4,040.04	2,900.07	2,820.66	79.42	36.517		
9,700.00	7,730.00	7,308.59	5,715.17	50.64	92.51	-41.69	1,483.17	4,024.00	2,938.55	2,857.45	81.10	36.235		
9,800.00	7,730.00	7,266.67	5,697.34	50.35	91.87	-41.19	1,477.11	4,007.96	2,979.67	2,896.97	82.70	36.028		
9,900.00	7,730.00	7,241.94	5,679.51	50.09	91.49	-40.68	1,471.04	3,991.92	3,023.35	2,938.82	84.53	35.767		
10,000.00	7,730.00	7,217.20	5,661.69	49.86	91.11	-40.18	1,464.98	3,975.88	3,069.46	2,983.03	86.43	35.515		
10,100.00	7,730.00	7,192.46	5,643.86	49.65	90.72	-39.68	1,458.92	3,959.84	3,117.90	3,029.53	88.37	35.284		
10,200.00	7,730.00	7,167.72	5,626.03	49.48	90.34	-39.18	1,452.85	3,943.79	3,168.57	3,078.24	90.32	35.080		
10,300.00	7,730.00	7,142.99	5,608.20	49.35	89.96	-38.68	1,446.79	3,927.75	3,221.35	3,129.07	92.28	34.910		
10,400.00	7,730.00	7,118.25	5,590.37	49.27	89.58	-38.18	1,440.72	3,911.71	3,276.15	3,181.94	94.21	34.776		
10,500.00	7,730.00	7,106.49	5,572.55	49.26	89.40	-37.68	1,434.66	3,895.67	3,332.86	3,236.66	96.20	34.644		
10,600.00	7,730.00	11,983.98	7,480.00	49.32	121.69	-85.80	-592.13	5,603.03	3,388.09	3,290.59	97.50	34.751		
10,700.00	7,730.00	12,083.98	7,480.00	49.51	121.62	-85.80	-692.13	5,602.69	3,388.09	3,289.11	98.98	34.231		
10,800.00	7,730.00	12,183.98	7,480.00	49.83	121.57	-85.80	-792.13	5,602.35	3,388.10	3,287.53	100.56	33.692		
10,900.00	7,730.00	12,283.98	7,480.00	50.31	121.53	-85.80	-892.13	5,602.02	3,388.10	3,285.86	102.24	33.138		
11,000.00	7,730.00	12,383.98	7,480.00	50.96	121.50	-85.80	-992.13	5,601.68	3,388.11	3,284.09	104.01	32.573		
11,100.00	7,730.00	12,483.98	7,480.00	51.75	121.48	-85.80	-1,092.13	5,601.34	3,388.11	3,282.24	105.87	32.001		
11,200.00	7,730.00	12,583.98	7,480.00	52.66	121.48	-85.80	-1,192.13	5,601.01	3,388.11	3,280.30	107.82	31.424		
11,300.00	7,730.00	12,683.98	7,480.00	53.67	121.49	-85.80	-1,292.13	5,600.67	3,388.12	3,278.28	109.84	30.847		
11,400.00	7,730.00	12,783.98	7,480.00	54.75	121.52	-85.80	-1,392.13	5,600.33	3,388.12	3,276.19	111.93	30.269		
11,500.00	7,730.00	12,883.98	7,480.00	55.89	121.56	-85.80	-1,492.13	5,600.00	3,388.13	3,274.03	114.10	29.695		
11,600.00	7,730.00	12,983.98	7,480.00	57.07	121.62	-85.80	-1,592.13	5,599.66	3,388.13	3,271.80	116.33	29.125		
11,700.00	7,730.00	13,083.98	7,480.00	58.30	121.69	-85.80	-1,692.13	5,599.33	3,388.14	3,269.51	118.62	28.562		
11,800.00	7,730.00	13,183.98	7,480.00	59.55	121.77	-85.80	-1,792.12	5,598.99	3,388.14	3,267.17	120.97	28.007		
11,900.00	7,730.00	13,283.98	7,480.00	60.84	121.88	-85.80	-1,892.12	5,598.65	3,388.15	3,264.76	123.38	27.461		
12,000.00	7,730.00	13,383.98	7,480.00	62.15	122.00	-85.80	-1,992.12	5,598.32	3,388.15	3,262.31	125.84	26.924		
12,100.00	7,730.00	13,483.98	7,480.00	63.49	122.13	-85.80	-2,092.12	5,597.98	3,388.15	3,259.80	128.35	26.398		
12,200.00	7,730.00	13,583.98	7,480.00	64.85	122.29	-85.80	-2,192.12	5,597.64	3,388.16	3,257.25	130.91	25.882		
12,300.00	7,730.00	13,683.98	7,480.00	66.22	122.46	-85.80	-2,292.12	5,597.31	3,388.16	3,254.66	133.51	25.378		
12,400.00	7,730.00	13,783.98	7,480.00	67.62	122.66	-85.80	-2,392.12	5,596.97	3,388.17	3,252.02	136.15	24.886		
12,500.00	7,730.00	13,883.98	7,480.00	69.03	122.87	-85.80	-2,492.12	5,596.63	3,388.17	3,249.34	138.83	24.406		
12,600.00	7,730.00	13,983.98	7,480.00	70.45	123.10	-85.80	-2,592.12	5,596.30	3,388.18	3,246.63	141.54	23.937		
12,700.00	7,730.00	14,083.98	7,480.00	71.90	123.36	-85.80	-2,692.12	5,595.96	3,388.18	3,243.89	144.29	23.481		
12,800.00	7,730.00	14,183.98	7,480.00	73.35	123.63	-85.80	-2,792.12	5,595.62	3,388.18	3,241.11	147.08	23.037		
12,900.00	7,730.00	14,283.98	7,480.00	74.81	123.93	-85.80	-2,892.12	5,595.29	3,388.19	3,238.30	149.89	22.604		
13,000.00	7,730.00	14,383.98	7,480.00	76.29	124.26	-85.80	-2,992.12	5,594.95	3,388.19	3,235.46	152.74	22.183		
13,100.00	7,730.00	14,483.98	7,480.00	77.78	124.60	-85.80	-3,092.12	5,594.61	3,388.20	3,232.59	155.61	21.774		
13,200.00	7,730.00	14,583.98	7,480.00	79.28	124.98	-85.80	-3,192.12	5,594.28	3,388.20	3,229.69	158.51	21.376		
13,300.00	7,730.00	14,683.98	7,480.00	80.79	125.37	-85.80	-3,292.12	5,593.94	3,388.21	3,226.78	161.43	20.989		
13,400.00	7,730.00	14,783.98	7,480.00	82.31	125.80	-85.80	-3,392.12	5,593.60	3,388.21	3,223.83	164.38	20.612		
13,500.00	7,730.00	14,883.98	7,480.00	83.84	126.25	-85.80	-3,492.11	5,593.27	3,388.22	3,220.87	167.35	20.247		
13,600.00	7,730.00	14,983.98	7,480.00	85.37	126.73	-85.80	-3,592.11	5,592.93	3,388.22	3,217.88	170.34	19.891		
13,700.00	7,730.00	15,083.98	7,480.00	86.92	127.24	-85.80	-3,692.11	5,592.60	3,388.22	3,214.88	173.35	19.546		
13,800.00	7,730.00	15,183.98	7,480.00	88.47	127.77	-85.80	-3,792.11	5,592.26	3,388.23	3,211.85	176.38	19.210		
13,900.00	7,730.00	15,283.98	7,480.00	90.03	128.34	-85.80	-3,892.11	5,591.92	3,388.23	3,208.81	179.42	18.884		
14,000.00	7,730.00	15,383.98	7,480.00	91.59	128.93	-85.80	-3,992.11	5,591.59	3,388.24	3,205.75	182.49	18.567		
14,100.00	7,730.00	15,483.98	7,480.00	93.16	129.56	-85.80	-4,092.11	5,591.25	3,388.24	3,202.68	185.57	18.259		
14,200.00	7,730.00	15,583.98	7,480.00	94.74	130.21	-85.80	-4,192.11	5,590.91	3,388.25	3,199.58	188.66	17.959		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	15,683.98	7,480.00	96.33	130.90	-85.80	-4,292.11	5,590.58	3,388.25	3,196.48	191.77	17.668		
14,400.00	7,730.00	15,783.98	7,480.00	97.92	131.62	-85.80	-4,392.11	5,590.24	3,388.26	3,193.36	194.90	17.385		
14,500.00	7,730.00	15,883.98	7,480.00	99.51	132.37	-85.80	-4,492.11	5,589.90	3,388.26	3,190.22	198.04	17.109		
14,600.00	7,730.00	15,983.98	7,480.00	101.11	133.14	-85.80	-4,592.11	5,589.57	3,388.26	3,187.08	201.19	16.841		
14,700.00	7,730.00	16,083.98	7,480.00	102.72	133.95	-85.80	-4,692.11	5,589.23	3,388.27	3,183.92	204.35	16.581		
14,800.00	7,730.00	16,183.98	7,480.00	104.33	134.79	-85.80	-4,792.11	5,588.89	3,388.27	3,180.75	207.53	16.327		
14,900.00	7,730.00	16,283.98	7,480.00	105.94	135.66	-85.80	-4,892.11	5,588.56	3,388.28	3,177.57	210.71	16.080		
15,000.00	7,730.00	16,383.98	7,480.00	107.56	136.56	-85.80	-4,992.11	5,588.22	3,388.28	3,174.37	213.91	15.840		
15,100.00	7,730.00	16,483.98	7,480.00	109.18	137.48	-85.80	-5,092.11	5,587.88	3,388.29	3,171.17	217.12	15.606		
15,200.00	7,730.00	16,583.98	7,480.00	110.81	138.44	-85.80	-5,192.11	5,587.55	3,388.29	3,167.96	220.33	15.378		
15,300.00	7,730.00	16,683.98	7,480.00	112.44	139.42	-85.80	-5,292.10	5,587.21	3,388.30	3,164.74	223.56	15.156		
15,400.00	7,730.00	16,783.98	7,480.00	114.08	140.42	-85.80	-5,392.10	5,586.88	3,388.30	3,161.51	226.79	14.940		
15,500.00	7,730.00	16,883.98	7,480.00	115.72	141.46	-85.80	-5,492.10	5,586.54	3,388.30	3,158.27	230.04	14.729		
15,600.00	7,730.00	16,983.98	7,480.00	117.36	142.52	-85.80	-5,592.10	5,586.20	3,388.31	3,155.02	233.29	14.524		
15,700.00	7,730.00	17,083.98	7,480.00	119.00	143.60	-85.80	-5,692.10	5,585.87	3,388.31	3,151.77	236.55	14.324		
15,800.00	7,730.00	17,183.98	7,480.00	120.65	144.71	-85.80	-5,792.10	5,585.53	3,388.32	3,148.50	239.81	14.129		
15,900.00	7,730.00	17,283.98	7,480.00	122.30	145.84	-85.80	-5,892.10	5,585.19	3,388.32	3,145.23	243.09	13.939		
16,000.00	7,730.00	17,383.98	7,480.00	123.96	146.99	-85.80	-5,992.10	5,584.86	3,388.33	3,141.96	246.37	13.753		
16,100.00	7,730.00	17,483.98	7,480.00	125.61	148.17	-85.80	-6,092.10	5,584.52	3,388.33	3,138.67	249.66	13.572		
16,200.00	7,730.00	17,583.98	7,480.00	127.27	149.36	-85.80	-6,192.10	5,584.18	3,388.34	3,135.38	252.95	13.395		
16,300.00	7,730.00	17,683.98	7,480.00	128.94	150.58	-85.80	-6,292.10	5,583.85	3,388.34	3,132.09	256.25	13.223		
16,400.00	7,730.00	17,783.98	7,480.00	130.60	151.81	-85.80	-6,392.10	5,583.51	3,388.34	3,128.79	259.56	13.054		
16,500.00	7,730.00	17,883.98	7,480.00	132.27	153.06	-85.80	-6,492.10	5,583.17	3,388.35	3,125.48	262.87	12.890		
16,600.00	7,730.00	17,983.98	7,480.00	133.94	154.33	-85.80	-6,592.10	5,582.84	3,388.35	3,122.16	266.19	12.729		
16,700.00	7,730.00	18,083.98	7,480.00	135.61	155.61	-85.80	-6,692.10	5,582.50	3,388.36	3,118.85	269.51	12.572		
16,800.00	7,730.00	18,183.98	7,480.00	137.28	156.91	-85.80	-6,792.10	5,582.16	3,388.36	3,115.52	272.84	12.419		
16,900.00	7,730.00	18,283.98	7,480.00	138.96	158.23	-85.80	-6,892.10	5,581.83	3,388.37	3,112.19	276.17	12.269		
17,000.00	7,730.00	18,383.98	7,480.00	140.64	159.56	-85.80	-6,992.10	5,581.49	3,388.37	3,108.86	279.51	12.122		
17,100.00	7,730.00	18,483.98	7,480.00	142.32	160.90	-85.80	-7,092.09	5,581.15	3,388.38	3,105.52	282.85	11.979		
17,200.00	7,730.00	18,583.98	7,480.00	144.00	162.26	-85.80	-7,192.09	5,580.82	3,388.38	3,102.18	286.20	11.839		
17,300.00	7,730.00	18,683.98	7,480.00	145.69	163.63	-85.80	-7,292.09	5,580.48	3,388.38	3,098.83	289.55	11.702		
17,400.00	7,730.00	18,783.98	7,480.00	147.37	165.02	-85.80	-7,392.09	5,580.15	3,388.39	3,095.48	292.91	11.568		
17,500.00	7,730.00	18,883.98	7,480.00	149.06	166.41	-85.80	-7,492.09	5,579.81	3,388.39	3,092.13	296.27	11.437		
17,600.00	7,730.00	18,983.98	7,480.00	150.75	167.81	-85.80	-7,592.09	5,579.47	3,388.40	3,088.77	299.63	11.309		
17,700.00	7,730.00	19,083.98	7,480.00	152.44	169.23	-85.80	-7,692.09	5,579.14	3,388.40	3,085.41	302.99	11.183		
17,800.00	7,730.00	19,183.98	7,480.00	154.13	170.66	-85.80	-7,792.09	5,578.80	3,388.41	3,082.04	306.37	11.060		
17,900.00	7,730.00	19,283.98	7,480.00	155.83	172.09	-85.80	-7,892.09	5,578.46	3,388.41	3,078.67	309.74	10.940		
18,000.00	7,730.00	19,383.98	7,480.00	157.52	173.54	-85.80	-7,992.09	5,578.13	3,388.42	3,075.30	313.12	10.822		
18,100.00	7,730.00	19,483.98	7,480.00	159.22	174.99	-85.80	-8,092.09	5,577.79	3,388.42	3,071.92	316.50	10.706		
18,200.00	7,730.00	19,583.98	7,480.00	160.92	176.46	-85.80	-8,192.09	5,577.45	3,388.42	3,068.54	319.88	10.593		
18,300.00	7,730.00	19,683.98	7,480.00	162.62	177.93	-85.80	-8,292.09	5,577.12	3,388.43	3,065.16	323.27	10.482		
18,400.00	7,730.00	19,783.98	7,480.00	164.32	179.41	-85.80	-8,392.09	5,576.78	3,388.43	3,061.78	326.66	10.373		
18,400.09	7,730.00	19,784.07	7,480.00	164.32	179.41	-85.80	-8,392.17	5,576.78	3,388.43	3,061.77	326.66	10.373		
18,426.22	7,730.00	19,796.12	7,480.00	164.76	179.59	-85.80	-8,404.22	5,576.74	3,388.46	3,060.80	327.67	10.341 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	2.00	-2.00	0.00	0.00	90.38	-0.73	110.04	110.04					
100.00	100.00	98.00	98.00	0.13	0.13	90.38	-0.73	110.04	110.04	109.78	0.27	413.440	CC, ES	
200.00	200.00	194.55	194.53	0.49	0.47	90.11	-0.21	111.51	111.57	110.59	0.97	114.966		
300.00	300.00	290.82	290.68	0.85	0.82	89.31	1.40	116.03	116.27	114.59	1.68	69.220		
400.00	400.00	386.65	386.17	1.21	1.18	88.12	4.07	123.54	124.18	121.79	2.39	52.009		
500.00	500.00	481.85	480.72	1.57	1.56	86.68	7.77	133.99	135.32	132.23	3.09	43.751		
600.00	600.00	576.21	574.02	1.93	1.95	85.15	12.48	147.25	149.72	145.92	3.79	39.462		
700.00	700.00	669.53	665.79	2.29	2.37	83.65	18.15	163.22	167.35	162.86	4.49	37.280		
800.00	800.00	761.65	755.78	2.64	2.81	82.25	24.72	181.73	188.20	183.02	5.18	36.354		
900.00	900.00	852.40	843.78	3.00	3.28	80.99	32.14	202.62	212.19	206.34	5.86	36.232		
1,000.00	1,000.00	941.62	929.57	3.36	3.78	79.87	40.34	225.71	239.28	232.75	6.53	36.668		
1,100.00	1,100.00	1,029.20	1,012.99	3.72	4.30	78.89	49.25	250.81	269.36	262.19	7.18	37.518		
1,200.00	1,200.00	1,115.01	1,093.91	4.08	4.85	78.04	58.81	277.73	302.37	294.54	7.83	38.631		
1,300.00	1,299.98	1,199.48	1,172.69	4.43	5.43	29.97	69.00	306.44	336.78	328.32	8.46	39.827		
1,400.00	1,399.84	1,283.12	1,249.77	4.79	6.06	29.34	79.86	337.01	371.11	362.03	9.07	40.896		
1,500.00	1,499.45	1,365.94	1,325.14	5.15	6.72	28.95	91.34	369.37	405.30	395.61	9.69	41.821		
1,600.00	1,598.70	1,447.95	1,398.76	5.51	7.41	28.74	103.43	403.41	439.31	429.00	10.31	42.619		
1,700.00	1,697.47	1,529.18	1,470.63	5.89	8.14	28.67	116.09	439.08	473.11	462.18	10.93	43.301		
1,800.00	1,795.62	1,609.65	1,540.74	6.28	8.90	28.71	129.30	476.29	506.68	495.13	11.55	43.875		
1,900.00	1,893.06	1,689.36	1,609.08	6.69	9.70	28.83	143.04	514.97	540.01	527.83	12.18	44.336		
2,000.00	1,989.64	1,768.35	1,675.64	7.13	10.55	29.01	157.27	555.05	573.10	560.28	12.82	44.688		
2,100.00	2,085.27	1,846.63	1,740.42	7.61	11.42	29.26	171.97	596.46	605.94	592.45	13.49	44.934		
2,200.00	2,179.82	1,924.22	1,803.41	8.12	12.33	29.54	187.12	639.13	638.51	624.35	14.17	45.071		
2,300.00	2,273.17	2,000.00	1,863.74	8.67	13.26	29.85	202.46	682.35	670.83	655.97	14.86	45.147		
2,400.00	2,365.21	2,077.40	1,924.08	9.27	14.26	30.21	218.68	728.02	702.89	687.27	15.62	45.003		
2,500.00	2,455.84	2,153.02	1,981.75	9.92	15.28	30.58	235.04	774.12	734.68	718.28	16.40	44.793		
2,580.62	2,527.80	2,213.54	2,026.96	10.49	16.12	30.89	248.51	812.03	760.12	743.06	17.06	44.546		
2,600.00	2,544.97	2,228.02	2,037.65	10.63	16.32	31.03	251.77	821.24	766.27	749.04	17.23	44.481		
2,700.00	2,633.58	2,304.71	2,093.45	11.37	17.43	31.73	269.37	870.80	799.46	781.33	18.13	44.095		
2,800.00	2,722.19	2,401.90	2,160.81	12.13	18.87	32.50	291.01	931.76	833.67	814.32	19.36	43.072		
2,900.00	2,810.80	2,491.48	2,228.16	12.91	20.20	33.21	312.66	992.72	868.01	847.45	20.56	42.208		
3,000.00	2,899.41	2,584.87	2,295.52	13.71	21.60	33.86	334.30	1,053.68	902.46	880.63	21.83	41.343		
3,100.00	2,988.02	2,678.26	2,362.88	14.52	23.01	34.47	355.94	1,114.64	937.01	913.89	23.12	40.529		
3,200.00	3,076.63	2,771.65	2,430.24	15.34	24.42	35.04	377.59	1,175.60	971.65	947.21	24.43	39.767		
3,300.00	3,165.24	2,865.04	2,497.59	16.16	25.83	35.57	399.23	1,236.56	1,006.36	980.59	25.77	39.053		
3,400.00	3,253.85	2,958.43	2,564.95	17.00	27.25	36.06	420.87	1,297.52	1,041.14	1,014.02	27.12	38.385		
3,500.00	3,342.46	3,051.82	2,632.31	17.84	28.66	36.52	442.52	1,358.49	1,075.99	1,047.49	28.50	37.761		
3,600.00	3,431.07	3,145.21	2,699.66	18.69	30.09	36.95	464.16	1,419.45	1,110.89	1,081.01	29.88	37.176		
3,700.00	3,519.68	3,238.60	2,767.02	19.55	31.51	37.36	485.80	1,480.41	1,145.85	1,114.57	31.28	36.629		
3,800.00	3,608.29	3,331.99	2,834.38	20.40	32.94	37.74	507.45	1,541.37	1,180.86	1,148.16	32.70	36.116		
3,900.00	3,696.90	3,425.38	2,901.74	21.26	34.37	38.10	529.09	1,602.33	1,215.90	1,181.78	34.12	35.635		
4,000.00	3,785.51	3,518.77	2,969.09	22.13	35.79	38.44	550.73	1,663.29	1,250.99	1,215.44	35.56	35.184		
4,100.00	3,874.12	3,612.16	3,036.45	23.00	37.23	38.76	572.38	1,724.25	1,286.12	1,249.12	37.00	34.759		
4,200.00	3,962.73	3,705.55	3,103.81	23.87	38.66	39.07	594.02	1,785.21	1,321.28	1,282.82	38.45	34.360		
4,300.00	4,051.34	3,801.06	3,171.16	24.74	40.12	39.35	615.66	1,846.17	1,356.47	1,316.54	39.93	33.970		
4,400.00	4,139.95	3,892.33	3,238.52	25.62	41.52	39.63	637.31	1,907.13	1,391.69	1,350.30	41.38	33.629		
4,500.00	4,228.56	3,985.72	3,305.88	26.49	42.96	39.89	658.95	1,968.09	1,426.93	1,384.07	42.86	33.293		
4,600.00	4,317.17	4,079.11	3,373.24	27.37	44.39	40.14	680.59	2,029.05	1,462.20	1,417.86	44.34	32.977		
4,700.00	4,405.78	4,172.49	3,440.59	28.25	45.83	40.37	702.23	2,090.01	1,497.50	1,451.67	45.83	32.677		
4,800.00	4,494.39	4,265.88	3,507.95	29.13	47.27	40.60	723.88	2,150.97	1,532.81	1,485.49	47.32	32.392		
4,900.00	4,583.00	4,359.27	3,575.31	30.02	48.70	40.81	745.52	2,211.93	1,568.15	1,519.33	48.82	32.123		
5,000.00	4,671.61	4,452.66	3,642.66	30.90	50.14	41.02	767.16	2,272.89	1,603.50	1,553.18	50.32	31.866		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,546.05	3,710.02	31.79	51.58	41.22	788.81	2,333.85	1,638.87	1,587.04	51.83	31.623		
5,200.00	4,848.83	4,639.44	3,777.38	32.67	53.02	41.41	810.45	2,394.81	1,674.26	1,620.92	53.34	31.391		
5,300.00	4,937.44	4,732.83	3,844.74	33.56	54.46	41.59	832.09	2,455.77	1,709.66	1,654.81	54.85	31.170		
5,400.00	5,026.05	4,826.22	3,912.09	34.45	55.90	41.76	853.74	2,516.73	1,745.08	1,688.71	56.37	30.959		
5,500.00	5,114.66	4,919.61	3,979.45	35.34	57.34	41.93	875.38	2,577.69	1,780.51	1,722.62	57.89	30.758		
5,600.00	5,203.27	5,013.00	4,046.81	36.23	58.78	42.09	897.02	2,638.65	1,815.95	1,756.54	59.41	30.566		
5,700.00	5,291.88	5,106.39	4,114.16	37.12	60.22	42.24	918.67	2,699.62	1,851.40	1,790.47	60.94	30.382		
5,800.00	5,380.50	5,200.22	4,181.52	38.01	61.67	42.39	940.31	2,760.58	1,886.87	1,824.40	62.47	30.205		
5,900.00	5,469.11	5,293.17	4,248.88	38.90	63.10	42.53	961.95	2,821.54	1,922.35	1,858.35	64.00	30.038		
6,000.00	5,557.72	5,386.56	4,316.24	39.79	64.54	42.67	983.60	2,882.50	1,957.83	1,892.30	65.53	29.876		
6,100.00	5,646.33	5,479.95	4,383.59	40.68	65.98	42.81	1,005.24	2,943.46	1,993.33	1,926.26	67.07	29.721		
6,200.00	5,734.94	5,573.34	4,450.95	41.58	67.42	42.93	1,026.88	3,004.42	2,028.84	1,960.23	68.61	29.572		
6,300.00	5,823.55	5,666.73	4,518.31	42.47	68.87	43.06	1,048.53	3,065.38	2,064.35	1,994.20	70.15	29.429		
6,400.00	5,912.16	5,760.12	4,585.66	43.36	70.31	43.18	1,070.17	3,126.34	2,099.87	2,028.18	71.69	29.292		
6,500.00	6,000.77	5,853.51	4,653.02	44.26	71.75	43.29	1,091.81	3,187.30	2,135.40	2,062.17	73.23	29.159		
6,600.00	6,089.38	5,946.89	4,720.38	45.15	73.19	43.40	1,113.46	3,248.26	2,170.94	2,096.16	74.78	29.032		
6,700.00	6,177.99	6,040.28	4,787.74	46.05	74.63	43.51	1,135.10	3,309.22	2,206.49	2,130.16	76.33	28.909		
6,800.00	6,266.60	6,133.67	4,855.09	46.94	76.08	43.62	1,156.74	3,370.18	2,242.04	2,164.16	77.88	28.790		
6,900.00	6,355.21	6,227.06	4,922.45	47.84	77.52	43.72	1,178.39	3,431.14	2,277.59	2,198.17	79.43	28.676		
7,000.00	6,443.82	6,320.45	4,989.81	48.74	78.96	43.82	1,200.03	3,492.10	2,313.16	2,232.18	80.98	28.566		
7,100.00	6,532.43	6,413.84	5,057.16	49.63	80.41	43.91	1,221.67	3,553.06	2,348.73	2,266.20	82.53	28.459		
7,200.00	6,621.04	6,507.23	5,124.52	50.53	81.85	44.01	1,243.32	3,614.02	2,384.30	2,300.22	84.08	28.356		
7,300.00	6,709.65	6,600.62	5,191.88	51.42	83.29	44.10	1,264.96	3,674.98	2,419.88	2,334.24	85.64	28.256		
7,400.00	6,798.26	6,705.99	5,259.24	52.32	84.92	44.18	1,286.60	3,735.94	2,455.47	2,368.17	87.30	28.127		
7,500.00	6,886.87	6,787.40	5,326.59	53.22	86.18	44.27	1,308.25	3,796.90	2,491.06	2,402.30	88.76	28.066		
7,600.00	6,975.48	6,880.79	5,393.95	54.12	87.62	44.35	1,329.89	3,857.86	2,526.65	2,436.34	90.31	27.976		
7,656.30	7,025.36	6,933.36	5,431.87	54.62	88.44	44.40	1,342.07	3,892.18	2,546.69	2,455.50	91.19	27.926		
7,700.00	7,064.54	6,974.25	5,461.36	55.00	89.07	38.88	1,351.55	3,918.87	2,562.11	2,470.30	91.81	27.906		
7,750.00	7,110.29	7,020.98	5,495.06	55.40	89.79	30.56	1,362.38	3,949.37	2,579.32	2,486.95	92.37	27.924		
7,800.00	7,156.67	7,067.33	5,528.49	55.75	90.51	20.21	1,373.12	3,979.63	2,595.96	2,503.21	92.76	27.987		
7,850.00	7,203.34	7,112.94	5,561.39	56.05	91.21	8.63	1,383.69	4,009.40	2,611.96	2,518.99	92.97	28.094		
7,900.00	7,249.95	7,157.47	5,593.51	56.30	91.90	-2.85	1,394.01	4,038.47	2,627.26	2,534.24	93.02	28.245		
7,950.00	7,296.14	7,200.58	5,624.60	56.50	92.57	-13.06	1,404.00	4,066.61	2,641.80	2,548.90	92.90	28.438		
8,000.00	7,341.56	7,241.94	5,654.43	56.64	93.21	-21.45	1,413.59	4,093.61	2,655.58	2,562.96	92.62	28.672		
8,050.00	7,385.86	7,281.23	5,682.77	56.74	93.81	-28.04	1,422.69	4,119.25	2,668.58	2,576.40	92.19	28.947		
8,100.00	7,428.71	7,318.16	5,709.40	56.79	94.38	-33.13	1,431.25	4,143.36	2,680.83	2,589.21	91.62	29.261		
8,150.00	7,469.77	7,352.44	5,734.13	56.80	94.91	-37.05	1,439.20	4,165.74	2,692.33	2,601.41	90.92	29.613		
8,200.00	7,508.75	7,383.82	5,756.76	56.77	95.40	-40.07	1,446.47	4,186.22	2,703.12	2,613.02	90.11	30.000		
8,250.00	7,545.33	7,412.05	5,777.12	56.70	95.84	-42.41	1,453.01	4,204.65	2,713.23	2,624.03	89.19	30.419		
8,300.00	7,579.25	7,436.92	5,795.06	56.59	96.22	-44.20	1,458.77	4,220.88	2,722.69	2,634.48	88.20	30.868		
8,350.00	7,610.24	7,458.25	5,810.44	56.45	96.55	-45.55	1,463.72	4,234.80	2,731.52	2,644.37	87.15	31.341		
8,400.00	7,638.06	7,475.86	5,823.14	56.28	96.82	-46.55	1,467.80	4,246.30	2,739.77	2,653.70	86.06	31.834		
8,450.00	7,662.52	7,489.63	5,833.07	56.09	97.04	-47.25	1,470.99	4,255.28	2,747.43	2,662.47	84.96	32.340		
8,500.00	7,683.41	7,499.44	5,840.15	55.88	97.19	-47.68	1,473.26	4,261.69	2,754.51	2,670.66	83.85	32.851		
8,550.00	7,700.59	7,505.23	5,844.33	55.64	97.28	-47.88	1,474.61	4,265.47	2,761.01	2,678.25	82.76	33.362		
8,600.00	7,713.91	7,506.96	5,845.57	55.39	97.30	-47.87	1,475.00	4,266.60	2,766.91	2,685.20	81.71	33.862		
8,650.00	7,723.29	7,504.60	5,843.87	55.14	97.27	-47.68	1,474.46	4,265.06	2,772.17	2,691.45	80.72	34.344		
8,700.00	7,728.64	7,501.83	5,839.24	54.87	97.22	-47.31	1,472.97	4,260.86	2,776.75	2,696.93	79.82	34.789		
8,740.83	7,730.00	7,489.94	5,833.30	54.65	97.04	-46.90	1,471.06	4,255.49	2,779.94	2,700.84	79.09	35.148		
8,800.00	7,730.00	7,476.10	5,823.32	54.33	96.83	-46.62	1,467.85	4,246.46	2,784.78	2,706.59	78.19	35.616		
8,900.00	7,730.00	7,452.70	5,806.44	53.82	96.46	-46.15	1,462.43	4,231.18	2,795.63	2,718.64	76.99	36.314		
9,000.00	7,730.00	7,429.31	5,789.57	53.33	96.10	-45.68	1,457.01	4,215.91	2,809.80	2,733.61	76.19	36.879		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,405.91	5,772.69	52.87	95.74	-45.21	1,451.59	4,200.64	2,827.25	2,751.45	75.80	37.298		
9,200.00	7,730.00	7,382.51	5,755.82	52.44	95.38	-44.74	1,446.16	4,185.36	2,847.91	2,772.11	75.81	37.568		
9,300.00	7,730.00	7,359.11	5,738.94	52.03	95.02	-44.27	1,440.74	4,170.09	2,871.72	2,795.54	76.18	37.697		
9,400.00	7,730.00	7,335.71	5,722.07	51.65	94.66	-43.80	1,435.32	4,154.82	2,898.60	2,821.71	76.89	37.699		
9,500.00	7,730.00	7,312.32	5,705.19	51.29	94.29	-43.34	1,429.90	4,139.55	2,928.46	2,850.56	77.89	37.595		
9,600.00	7,730.00	7,288.92	5,688.31	50.95	93.93	-42.87	1,424.47	4,124.27	2,961.21	2,882.05	79.16	37.410		
9,700.00	7,730.00	7,265.52	5,671.44	50.64	93.57	-42.40	1,419.05	4,109.00	2,996.75	2,916.12	80.63	37.167		
9,800.00	7,730.00	7,242.12	5,654.56	50.35	93.21	-41.94	1,413.63	4,093.73	3,035.00	2,952.73	82.28	36.888		
9,900.00	7,730.00	7,218.73	5,637.69	50.09	92.85	-41.47	1,408.21	4,078.45	3,075.85	2,991.79	84.05	36.595		
10,000.00	7,730.00	7,204.67	5,620.81	49.86	92.63	-41.01	1,402.78	4,063.18	3,119.19	3,033.20	85.99	36.275		
10,100.00	7,730.00	7,171.93	5,603.94	49.65	92.12	-40.55	1,397.36	4,047.91	3,164.93	3,077.07	87.86	36.023		
10,200.00	7,730.00	7,148.53	5,587.06	49.48	91.76	-40.08	1,391.94	4,032.63	3,212.95	3,123.12	89.83	35.767		
10,300.00	7,730.00	7,125.14	5,570.19	49.35	91.40	-39.62	1,386.52	4,017.36	3,263.17	3,171.36	91.81	35.542		
10,400.00	7,730.00	7,101.74	5,553.31	49.27	91.04	-39.16	1,381.09	4,002.09	3,315.48	3,221.69	93.79	35.351		
10,500.00	7,730.00	7,078.34	5,536.43	49.26	90.68	-38.70	1,375.67	3,986.82	3,369.79	3,274.05	95.74	35.198		
10,600.00	7,730.00	7,054.94	5,519.56	49.32	90.31	-38.25	1,370.25	3,971.54	3,425.99	3,328.34	97.65	35.084		
10,700.00	7,730.00	7,031.54	5,502.68	49.51	89.95	-37.79	1,364.83	3,956.27	3,484.00	3,384.48	99.52	35.010		
10,800.00	7,730.00	7,008.15	5,485.81	49.83	89.59	-37.34	1,359.40	3,941.00	3,543.73	3,442.40	101.32	34.974		
10,900.00	7,730.00	6,984.75	5,468.93	50.31	89.23	-36.88	1,353.98	3,925.72	3,605.09	3,502.01	103.07	34.977		
11,000.00	7,730.00	6,961.35	5,452.06	50.96	88.87	-36.43	1,348.56	3,910.45	3,668.00	3,563.25	104.75	35.016		
11,100.00	7,730.00	6,937.95	5,435.18	51.75	88.51	-35.98	1,343.14	3,895.18	3,732.38	3,626.02	106.36	35.091		
11,200.00	7,730.00	12,974.52	7,730.00	52.66	129.59	-90.03	-1,193.38	5,961.01	3,739.03	3,632.99	106.04	35.261		
11,300.00	7,730.00	13,074.52	7,730.00	53.67	129.60	-90.03	-1,293.38	5,960.67	3,739.03	3,630.99	108.04	34.606		
11,400.00	7,730.00	13,174.52	7,730.00	54.75	129.62	-90.03	-1,393.38	5,960.34	3,739.04	3,628.91	110.13	33.952		
11,500.00	7,730.00	13,274.52	7,730.00	55.89	129.65	-90.03	-1,493.38	5,960.00	3,739.04	3,626.76	112.28	33.301		
11,600.00	7,730.00	13,374.52	7,730.00	57.07	129.70	-90.03	-1,593.38	5,959.66	3,739.04	3,624.54	114.50	32.655		
11,700.00	7,730.00	13,474.52	7,730.00	58.30	129.76	-90.03	-1,693.38	5,959.32	3,739.05	3,622.26	116.79	32.016		
11,800.00	7,730.00	13,574.52	7,730.00	59.55	129.84	-90.03	-1,793.38	5,958.99	3,739.05	3,619.92	119.13	31.385		
11,900.00	7,730.00	13,674.52	7,730.00	60.84	129.93	-90.03	-1,893.38	5,958.65	3,739.05	3,617.52	121.54	30.765		
12,000.00	7,730.00	13,774.52	7,730.00	62.15	130.04	-90.03	-1,993.38	5,958.31	3,739.06	3,615.06	123.99	30.155		
12,100.00	7,730.00	13,874.52	7,730.00	63.49	130.16	-90.03	-2,093.38	5,957.97	3,739.06	3,612.56	126.50	29.558		
12,200.00	7,730.00	13,974.52	7,730.00	64.85	130.30	-90.03	-2,193.38	5,957.63	3,739.06	3,610.01	129.06	28.973		
12,300.00	7,730.00	14,074.52	7,730.00	66.22	130.45	-90.03	-2,293.38	5,957.30	3,739.07	3,607.41	131.65	28.401		
12,400.00	7,730.00	14,174.52	7,730.00	67.62	130.62	-90.03	-2,393.38	5,956.96	3,739.07	3,604.78	134.30	27.842		
12,500.00	7,730.00	14,274.52	7,730.00	69.03	130.81	-90.03	-2,493.38	5,956.62	3,739.07	3,602.10	136.98	27.297		
12,600.00	7,730.00	14,374.52	7,730.00	70.45	131.02	-90.03	-2,593.37	5,956.28	3,739.08	3,599.38	139.70	26.766		
12,700.00	7,730.00	14,474.52	7,730.00	71.90	131.24	-90.03	-2,693.37	5,955.95	3,739.08	3,596.63	142.45	26.248		
12,800.00	7,730.00	14,574.52	7,730.00	73.35	131.48	-90.03	-2,793.37	5,955.61	3,739.08	3,593.85	145.24	25.745		
12,900.00	7,730.00	14,674.52	7,730.00	74.81	131.75	-90.03	-2,893.37	5,955.27	3,739.09	3,591.03	148.06	25.254		
13,000.00	7,730.00	14,774.52	7,730.00	76.29	132.03	-90.03	-2,993.37	5,954.93	3,739.09	3,588.18	150.91	24.778		
13,100.00	7,730.00	14,874.52	7,730.00	77.78	132.34	-90.03	-3,093.37	5,954.60	3,739.09	3,585.31	153.78	24.314		
13,200.00	7,730.00	14,974.52	7,730.00	79.28	132.66	-90.03	-3,193.37	5,954.26	3,739.10	3,582.41	156.69	23.864		
13,300.00	7,730.00	15,074.52	7,730.00	80.79	133.01	-90.03	-3,293.37	5,953.92	3,739.10	3,579.48	159.62	23.426		
13,400.00	7,730.00	15,174.52	7,730.00	82.31	133.38	-90.03	-3,393.37	5,953.58	3,739.10	3,576.54	162.57	23.000		
13,500.00	7,730.00	15,274.52	7,730.00	83.84	133.78	-90.03	-3,493.37	5,953.25	3,739.11	3,573.56	165.54	22.587		
13,600.00	7,730.00	15,374.52	7,730.00	85.37	134.20	-90.03	-3,593.37	5,952.91	3,739.11	3,570.57	168.54	22.185		
13,700.00	7,730.00	15,474.52	7,730.00	86.92	134.64	-90.03	-3,693.37	5,952.57	3,739.11	3,567.56	171.56	21.795		
13,800.00	7,730.00	15,574.52	7,730.00	88.47	135.11	-90.03	-3,793.37	5,952.23	3,739.12	3,564.52	174.59	21.416		
13,900.00	7,730.00	15,674.52	7,730.00	90.03	135.60	-90.03	-3,893.37	5,951.89	3,739.12	3,561.47	177.65	21.048		
14,000.00	7,730.00	15,774.52	7,730.00	91.59	136.12	-90.03	-3,993.37	5,951.56	3,739.12	3,558.40	180.72	20.690		
14,100.00	7,730.00	15,874.52	7,730.00	93.16	136.67	-90.03	-4,093.37	5,951.22	3,739.13	3,555.32	183.81	20.342		
14,200.00	7,730.00	15,974.52	7,730.00	94.74	137.24	-90.03	-4,193.37	5,950.88	3,739.13	3,552.22	186.91	20.005		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	16,074.52	7,730.00	96.33	137.84	-90.03	-4,293.37	5,950.54	3,739.13	3,549.10	190.03	19.676		
14,400.00	7,730.00	16,174.52	7,730.00	97.92	138.47	-90.03	-4,393.36	5,950.21	3,739.14	3,545.97	193.17	19.357		
14,500.00	7,730.00	16,274.52	7,730.00	99.51	139.12	-90.03	-4,493.36	5,949.87	3,739.14	3,542.83	196.31	19.047		
14,600.00	7,730.00	16,374.52	7,730.00	101.11	139.81	-90.03	-4,593.36	5,949.53	3,739.14	3,539.67	199.47	18.745		
14,700.00	7,730.00	16,474.52	7,730.00	102.72	140.52	-90.03	-4,693.36	5,949.19	3,739.15	3,536.50	202.64	18.452		
14,800.00	7,730.00	16,574.52	7,730.00	104.33	141.26	-90.03	-4,793.36	5,948.86	3,739.15	3,533.32	205.83	18.166		
14,900.00	7,730.00	16,674.52	7,730.00	105.94	142.02	-90.03	-4,893.36	5,948.52	3,739.15	3,530.13	209.02	17.889		
15,000.00	7,730.00	16,774.52	7,730.00	107.56	142.82	-90.03	-4,993.36	5,948.18	3,739.16	3,526.93	212.23	17.619		
15,100.00	7,730.00	16,874.52	7,730.00	109.18	143.64	-90.03	-5,093.36	5,947.84	3,739.16	3,523.71	215.44	17.356		
15,200.00	7,730.00	16,974.52	7,730.00	110.81	144.49	-90.03	-5,193.36	5,947.50	3,739.16	3,520.49	218.67	17.100		
15,300.00	7,730.00	17,074.52	7,730.00	112.44	145.37	-90.03	-5,293.36	5,947.17	3,739.17	3,517.26	221.91	16.850		
15,400.00	7,730.00	17,174.52	7,730.00	114.08	146.27	-90.03	-5,393.36	5,946.83	3,739.17	3,514.02	225.15	16.608		
15,500.00	7,730.00	17,274.52	7,730.00	115.72	147.20	-90.03	-5,493.36	5,946.49	3,739.17	3,510.77	228.40	16.371		
15,600.00	7,730.00	17,374.52	7,730.00	117.36	148.16	-90.03	-5,593.36	5,946.15	3,739.18	3,507.51	231.66	16.141		
15,700.00	7,730.00	17,474.52	7,730.00	119.00	149.14	-90.03	-5,693.36	5,945.82	3,739.18	3,504.25	234.93	15.916		
15,800.00	7,730.00	17,574.52	7,730.00	120.65	150.14	-90.03	-5,793.36	5,945.48	3,739.18	3,500.97	238.21	15.697		
15,900.00	7,730.00	17,674.52	7,730.00	122.30	151.17	-90.03	-5,893.36	5,945.14	3,739.19	3,497.69	241.49	15.484		
16,000.00	7,730.00	17,774.52	7,730.00	123.96	152.22	-90.03	-5,993.36	5,944.80	3,739.19	3,494.41	244.78	15.276		
16,100.00	7,730.00	17,874.52	7,730.00	125.61	153.30	-90.03	-6,093.36	5,944.47	3,739.19	3,491.11	248.08	15.073		
16,200.00	7,730.00	17,974.52	7,730.00	127.27	154.40	-90.03	-6,193.35	5,944.13	3,739.20	3,487.81	251.38	14.875		
16,300.00	7,730.00	18,074.52	7,730.00	128.94	155.51	-90.03	-6,293.35	5,943.79	3,739.20	3,484.51	254.69	14.681		
16,400.00	7,730.00	18,174.52	7,730.00	130.60	156.65	-90.03	-6,393.35	5,943.45	3,739.20	3,481.19	258.01	14.493		
16,500.00	7,730.00	18,274.52	7,730.00	132.27	157.81	-90.03	-6,493.35	5,943.12	3,739.21	3,477.88	261.33	14.308		
16,600.00	7,730.00	18,374.52	7,730.00	133.94	158.99	-90.03	-6,593.35	5,942.78	3,739.21	3,474.55	264.66	14.129		
16,700.00	7,730.00	18,474.52	7,730.00	135.61	160.19	-90.03	-6,693.35	5,942.44	3,739.21	3,471.22	267.99	13.953		
16,800.00	7,730.00	18,574.52	7,730.00	137.28	161.41	-90.03	-6,793.35	5,942.10	3,739.22	3,467.89	271.33	13.781		
16,900.00	7,730.00	18,674.52	7,730.00	138.96	162.64	-90.03	-6,893.35	5,941.76	3,739.22	3,464.55	274.67	13.614		
17,000.00	7,730.00	18,774.52	7,730.00	140.64	163.89	-90.03	-6,993.35	5,941.43	3,739.22	3,461.21	278.02	13.450		
17,100.00	7,730.00	18,874.52	7,730.00	142.32	165.15	-90.03	-7,093.35	5,941.09	3,739.23	3,457.86	281.37	13.290		
17,200.00	7,730.00	18,974.52	7,730.00	144.00	166.43	-90.03	-7,193.35	5,940.75	3,739.23	3,454.51	284.72	13.133		
17,300.00	7,730.00	19,074.52	7,730.00	145.69	167.73	-90.03	-7,293.35	5,940.41	3,739.23	3,451.15	288.08	12.980		
17,400.00	7,730.00	19,174.52	7,730.00	147.37	169.04	-90.03	-7,393.35	5,940.08	3,739.23	3,447.79	291.45	12.830		
17,500.00	7,730.00	19,274.52	7,730.00	149.06	170.36	-90.03	-7,493.35	5,939.74	3,739.24	3,444.42	294.82	12.683		
17,600.00	7,730.00	19,374.52	7,730.00	150.75	171.70	-90.03	-7,593.35	5,939.40	3,739.24	3,441.05	298.19	12.540		
17,700.00	7,730.00	19,474.52	7,730.00	152.44	173.05	-90.03	-7,693.35	5,939.06	3,739.24	3,437.68	301.56	12.400		
17,800.00	7,730.00	19,574.52	7,730.00	154.13	174.41	-90.03	-7,793.35	5,938.73	3,739.25	3,434.30	304.94	12.262		
17,900.00	7,730.00	19,674.52	7,730.00	155.83	175.79	-90.03	-7,893.34	5,938.39	3,739.25	3,430.93	308.33	12.128		
18,000.00	7,730.00	19,774.52	7,730.00	157.52	177.17	-90.03	-7,993.34	5,938.05	3,739.25	3,427.54	311.71	11.996		
18,100.00	7,730.00	19,874.52	7,730.00	159.22	178.57	-90.03	-8,093.34	5,937.71	3,739.26	3,424.16	315.10	11.867		
18,200.00	7,730.00	19,974.52	7,730.00	160.92	179.97	-90.03	-8,193.34	5,937.37	3,739.26	3,420.77	318.49	11.740		
18,300.00	7,730.00	20,074.52	7,730.00	162.62	181.39	-90.03	-8,293.34	5,937.04	3,739.26	3,417.37	321.89	11.617		
18,400.00	7,730.00	20,174.52	7,730.00	164.32	182.81	-90.03	-8,393.34	5,936.70	3,739.27	3,413.98	325.29	11.495		
18,426.22	7,730.00	20,184.95	7,730.00	164.76	182.96	-90.03	-8,403.77	5,936.66	3,739.30	3,413.01	326.29	11.460 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	0.00	0.00	0.00	0.00	-88.96	0.36	-20.16	20.16				
100.00	100.00	100.00	100.00	0.13	0.13	-88.96	0.36	-20.16	20.16	19.89	0.27	74.998	
200.00	200.00	200.00	200.00	0.49	0.49	-88.96	0.36	-20.16	20.16	19.18	0.99	20.454	
300.00	300.00	300.00	300.00	0.85	0.85	-88.96	0.36	-20.16	20.16	18.46	1.70	11.842	
400.00	400.00	400.00	400.00	1.21	1.21	-88.96	0.36	-20.16	20.16	17.74	2.42	8.333	
500.00	500.00	500.00	500.00	1.57	1.57	-88.96	0.36	-20.16	20.16	17.03	3.14	6.428	
600.00	600.00	600.00	600.00	1.93	1.93	-88.96	0.36	-20.16	20.16	16.31	3.85	5.232	
700.00	700.00	700.00	700.00	2.29	2.29	-88.96	0.36	-20.16	20.16	15.59	4.57	4.412	
800.00	800.00	800.00	800.00	2.64	2.64	-88.96	0.36	-20.16	20.16	14.88	5.29	3.813	
900.00	900.00	900.00	900.00	3.00	3.00	-88.96	0.36	-20.16	20.16	14.16	6.00	3.358	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-88.96	0.36	-20.16	20.16	13.44	6.72	3.000	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-88.96	0.36	-20.16	20.16	12.73	7.44	2.711	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-88.96	0.36	-20.16	20.16	12.01	8.16	2.472	CC, ES
1,300.00	1,299.98	1,300.02	1,299.98	4.43	4.44	-139.30	0.36	-20.16	21.45	12.59	8.87	2.419	
1,400.00	1,399.84	1,399.84	1,399.84	4.79	4.79	-146.90	0.36	-20.16	25.65	16.07	9.58	2.677	
1,500.00	1,499.45	1,500.38	1,500.36	5.15	5.15	-153.34	1.75	-19.08	31.87	21.58	10.29	3.098	
1,600.00	1,598.70	1,601.15	1,600.99	5.51	5.51	-156.87	5.94	-15.83	38.60	27.61	10.99	3.512	
1,700.00	1,697.47	1,702.16	1,701.60	5.89	5.87	-158.67	12.94	-10.40	45.65	33.96	11.69	3.907	
1,800.00	1,795.62	1,803.40	1,802.07	6.28	6.24	-159.40	22.77	-2.78	52.93	40.56	12.38	4.277	
1,900.00	1,893.06	1,904.87	1,902.26	6.69	6.62	-159.43	35.42	7.04	60.42	47.35	13.07	4.624	
2,000.00	1,989.64	2,006.55	2,002.03	7.13	7.01	-158.99	50.91	19.05	68.09	54.33	13.76	4.948	
2,100.00	2,085.27	2,108.44	2,101.25	7.61	7.43	-158.22	69.22	33.26	75.95	61.49	14.46	5.251	
2,200.00	2,179.82	2,210.55	2,199.78	8.12	7.87	-157.22	90.36	49.66	84.01	68.83	15.18	5.534	
2,300.00	2,273.17	2,312.85	2,297.49	8.67	8.34	-156.05	114.30	68.24	92.28	76.35	15.93	5.793	
2,400.00	2,365.21	2,415.36	2,394.23	9.27	8.86	-154.76	141.05	88.99	100.77	84.05	16.71	6.029	
2,500.00	2,455.84	2,518.05	2,489.89	9.92	9.41	-153.39	170.56	111.89	109.49	91.94	17.55	6.240	
2,580.62	2,527.80	2,600.99	2,566.12	10.49	9.89	-152.24	196.36	131.91	116.69	98.43	18.26	6.391	
2,600.00	2,544.97	2,620.94	2,584.31	10.63	10.01	-151.96	202.83	136.93	118.39	99.95	18.44	6.421	
2,700.00	2,633.58	2,721.91	2,675.78	11.37	10.64	-150.24	236.62	163.14	126.04	106.57	19.47	6.474	
2,800.00	2,722.19	2,821.57	2,765.94	12.13	11.29	-148.67	270.16	189.16	133.59	113.00	20.59	6.489	
2,900.00	2,810.80	2,921.22	2,856.10	12.91	11.96	-147.27	303.70	215.19	141.22	119.47	21.75	6.494	
3,000.00	2,899.41	3,020.87	2,946.26	13.71	12.65	-146.02	337.24	241.21	148.92	125.98	22.94	6.491	
3,100.00	2,988.02	3,120.52	3,036.41	14.52	13.35	-144.88	370.78	267.23	156.70	132.52	24.18	6.481	
3,200.00	3,076.63	3,220.17	3,126.57	15.34	14.07	-143.86	404.32	293.25	164.52	139.08	25.44	6.466	
3,300.00	3,165.24	3,319.83	3,216.73	16.16	14.79	-142.93	437.86	319.28	172.40	145.66	26.73	6.449	
3,400.00	3,253.85	3,419.48	3,306.89	17.00	15.52	-142.08	471.40	345.30	180.31	152.26	28.05	6.428	
3,500.00	3,342.46	3,519.13	3,397.05	17.84	16.26	-141.30	504.94	371.32	188.27	158.88	29.39	6.407	
3,600.00	3,431.07	3,618.78	3,487.20	18.69	17.01	-140.58	538.48	397.34	196.25	165.51	30.74	6.384	
3,700.00	3,519.68	3,718.43	3,577.36	19.55	17.76	-139.92	572.02	423.37	204.26	172.15	32.11	6.361	
3,800.00	3,608.29	3,818.09	3,667.52	20.40	18.52	-139.31	605.56	449.39	212.30	178.80	33.50	6.338	
3,900.00	3,696.90	3,917.74	3,757.68	21.26	19.29	-138.75	639.10	475.41	220.36	185.46	34.89	6.315	
4,000.00	3,785.51	4,017.39	3,847.84	22.13	20.05	-138.22	672.64	501.43	228.44	192.13	36.30	6.292	
4,100.00	3,874.12	4,117.04	3,937.99	23.00	20.82	-137.73	706.18	527.46	236.53	198.81	37.73	6.270	
4,200.00	3,962.73	4,216.69	4,028.15	23.87	21.60	-137.27	739.72	553.48	244.64	205.49	39.16	6.248	
4,300.00	4,051.34	4,316.35	4,118.31	24.74	22.37	-136.85	773.26	579.50	252.77	212.18	40.59	6.227	
4,400.00	4,139.95	4,416.00	4,208.47	25.62	23.15	-136.45	806.79	605.52	260.91	218.87	42.04	6.206	
4,500.00	4,228.56	4,515.65	4,298.62	26.49	23.93	-136.07	840.33	631.55	269.06	225.57	43.49	6.187	
4,600.00	4,317.17	4,615.30	4,388.78	27.37	24.72	-135.71	873.87	657.57	277.23	232.28	44.95	6.167	
4,700.00	4,405.78	4,714.95	4,478.94	28.25	25.50	-135.38	907.41	683.59	285.40	238.98	46.42	6.149	
4,800.00	4,494.39	4,814.61	4,569.10	29.13	26.29	-135.06	940.95	709.61	293.58	245.70	47.88	6.131	
4,900.00	4,583.00	4,914.26	4,659.26	30.02	27.08	-134.77	974.49	735.64	301.77	252.41	49.36	6.114	
5,000.00	4,671.61	5,013.91	4,749.41	30.90	27.87	-134.48	1,008.03	761.66	309.97	259.13	50.84	6.097	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,113.56	4,839.57	31.79	28.66	-134.21	1,041.57	787.68	318.17	265.85	52.32	6.081		
5,200.00	4,848.83	5,213.21	4,929.73	32.67	29.45	-133.96	1,075.11	813.70	326.39	272.58	53.81	6.066		
5,300.00	4,937.44	5,312.87	5,019.89	33.56	30.25	-133.72	1,108.65	839.73	334.60	279.31	55.30	6.051		
5,400.00	5,026.05	5,412.52	5,110.05	34.45	31.04	-133.49	1,142.19	865.75	342.83	286.04	56.79	6.037		
5,500.00	5,114.66	5,512.17	5,200.20	35.34	31.84	-133.27	1,175.73	891.77	351.06	292.77	58.28	6.023		
5,600.00	5,203.27	5,611.82	5,290.36	36.23	32.64	-133.06	1,209.27	917.79	359.29	299.51	59.78	6.010		
5,700.00	5,291.88	5,711.47	5,380.52	37.12	33.43	-132.86	1,242.81	943.82	367.53	306.25	61.28	5.997		
5,800.00	5,380.50	5,811.13	5,470.68	38.01	34.23	-132.67	1,276.35	969.84	375.77	312.98	62.79	5.985		
5,900.00	5,469.11	5,910.78	5,560.84	38.90	35.03	-132.48	1,309.89	995.86	384.02	319.73	64.29	5.973		
6,000.00	5,557.72	6,010.43	5,650.99	39.79	35.83	-132.31	1,343.43	1,021.88	392.27	326.47	65.80	5.962		
6,100.00	5,646.33	6,110.08	5,741.15	40.68	36.63	-132.14	1,376.97	1,047.91	400.52	333.21	67.31	5.951		
6,200.00	5,734.94	6,209.73	5,831.31	41.58	37.43	-131.98	1,410.51	1,073.93	408.78	339.96	68.82	5.940		
6,300.00	5,823.55	6,309.39	5,921.47	42.47	38.23	-131.82	1,444.05	1,099.95	417.04	346.71	70.33	5.930		
6,400.00	5,912.16	6,409.04	6,011.62	43.36	39.03	-131.67	1,477.59	1,125.97	425.30	353.46	71.84	5.920		
6,500.00	6,000.77	6,508.69	6,101.78	44.26	39.84	-131.53	1,511.13	1,151.99	433.57	360.21	73.36	5.910		
6,600.00	6,089.38	6,608.34	6,191.94	45.15	40.64	-131.39	1,544.67	1,178.02	441.84	366.96	74.87	5.901		
6,700.00	6,177.99	6,708.00	6,282.10	46.05	41.44	-131.26	1,578.21	1,204.04	450.11	373.71	76.39	5.892		
6,800.00	6,266.60	6,807.65	6,372.26	46.94	42.25	-131.13	1,611.75	1,230.06	458.38	380.47	77.91	5.883		
6,900.00	6,355.21	6,907.30	6,462.41	47.84	43.05	-131.01	1,645.29	1,256.08	466.65	387.22	79.43	5.875		
7,000.00	6,443.82	7,006.95	6,552.57	48.74	43.86	-130.89	1,678.83	1,282.11	474.93	393.98	80.95	5.867		
7,100.00	6,532.43	7,106.60	6,642.73	49.63	44.66	-130.77	1,712.37	1,308.13	483.21	400.74	82.47	5.859		
7,200.00	6,621.04	7,206.26	6,732.89	50.53	45.47	-130.66	1,745.91	1,334.15	491.49	407.50	84.00	5.851		
7,300.00	6,709.65	7,305.91	6,823.05	51.42	46.27	-130.55	1,779.45	1,360.17	499.78	414.26	85.52	5.844		
7,400.00	6,798.26	7,408.76	6,916.27	52.32	47.09	-130.51	1,813.55	1,387.08	507.99	420.96	87.03	5.837		
7,500.00	6,886.87	7,521.03	7,021.80	53.22	47.83	-132.14	1,836.01	1,417.48	514.41	427.00	87.40	5.886		
7,600.00	6,975.48	7,624.41	7,121.01	54.12	48.29	-135.68	1,837.40	1,446.00	519.73	433.55	86.18	6.031		
7,656.30	7,025.36	7,676.80	7,170.97	54.62	48.43	-138.18	1,831.01	1,460.33	523.41	438.41	85.00	6.158		
7,700.00	7,064.54	7,715.08	7,207.02	55.00	48.50	-147.65	1,823.35	1,470.67	527.11	443.13	83.98	6.276		
7,750.00	7,110.29	7,757.55	7,246.34	55.40	48.55	-160.31	1,811.94	1,481.93	532.35	449.49	82.85	6.425		
7,800.00	7,156.67	7,798.78	7,283.63	55.75	48.56	-174.76	1,798.00	1,492.60	538.51	456.74	81.78	6.585		
7,850.00	7,203.34	7,838.93	7,318.94	56.05	48.54	169.80	1,781.77	1,502.69	545.46	464.71	80.75	6.755		
7,900.00	7,249.95	7,878.15	7,352.29	56.30	48.50	154.71	1,763.48	1,512.21	553.01	473.23	79.79	6.931		
7,950.00	7,296.14	7,916.55	7,383.70	56.50	48.44	141.15	1,743.31	1,521.17	561.02	482.13	78.89	7.112		
8,000.00	7,341.56	7,954.24	7,413.21	56.64	48.36	129.68	1,721.43	1,529.58	569.31	491.25	78.06	7.294		
8,050.00	7,385.86	7,991.31	7,440.82	56.74	48.26	120.25	1,698.00	1,537.43	577.74	500.45	77.29	7.475		
8,100.00	7,428.71	8,027.83	7,466.55	56.79	48.14	112.56	1,673.13	1,544.74	586.16	509.56	76.59	7.653		
8,150.00	7,469.77	8,063.89	7,490.41	56.80	48.01	106.27	1,646.97	1,551.51	594.42	518.46	75.97	7.825		
8,200.00	7,508.75	8,100.00	7,512.67	56.77	47.87	101.09	1,619.25	1,557.81	602.42	527.02	75.40	7.990		
8,250.00	7,545.33	8,134.82	7,532.51	56.70	47.72	96.81	1,591.19	1,563.42	610.02	535.07	74.95	8.139		
8,300.00	7,579.25	8,169.80	7,550.75	56.59	47.55	93.25	1,561.80	1,568.56	617.14	542.56	74.58	8.275		
8,350.00	7,610.24	8,204.52	7,567.12	56.45	47.38	90.29	1,531.54	1,573.16	623.67	549.38	74.29	8.395		
8,400.00	7,638.06	8,239.01	7,581.61	56.28	47.20	87.84	1,500.50	1,577.22	629.55	555.44	74.11	8.495		
8,450.00	7,662.52	8,273.32	7,594.22	56.09	47.01	85.84	1,468.79	1,580.74	634.69	560.66	74.03	8.573		
8,500.00	7,683.41	8,307.48	7,604.94	55.88	46.82	84.23	1,436.50	1,583.71	639.05	565.00	74.05	8.630		
8,550.00	7,700.59	8,341.52	7,613.76	55.64	46.63	82.98	1,403.72	1,586.13	642.57	568.39	74.18	8.662		
8,600.00	7,713.91	8,375.47	7,620.69	55.39	46.43	82.06	1,370.54	1,588.01	645.23	570.82	74.41	8.672		
8,650.00	7,723.29	8,409.36	7,625.70	55.14	46.22	81.45	1,337.06	1,589.34	646.98	572.26	74.73	8.658		
8,700.00	7,728.64	8,443.22	7,628.80	54.87	46.02	81.14	1,303.35	1,590.12	647.82	572.69	75.13	8.623		
8,740.83	7,730.00	8,470.87	7,629.91	54.65	45.86	81.11	1,275.73	1,590.34	647.83	572.31	75.51	8.579		
8,767.40	7,730.00	8,507.39	7,630.00	54.50	45.64	81.12	1,253.99	1,590.29	647.77	572.33	75.44	8.586		
8,800.00	7,730.00	8,525.21	7,630.00	54.33	45.53	81.12	1,221.39	1,590.18	647.77	572.62	75.15	8.620		
8,900.00	7,730.00	8,625.21	7,630.00	53.82	44.97	81.12	1,121.39	1,589.85	647.77	573.67	74.09	8.743		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	8,725.21	7,630.00	53.33	44.43	81.12	1,021.39	1,589.51	647.76	574.58	73.19	8.851		
9,100.00	7,730.00	8,825.21	7,630.00	52.87	43.93	81.12	921.39	1,589.17	647.76	575.32	72.44	8.942		
9,200.00	7,730.00	8,925.21	7,630.00	52.44	43.46	81.12	821.40	1,588.83	647.76	575.90	71.86	9.015		
9,300.00	7,730.00	9,025.21	7,630.00	52.03	43.02	81.12	721.40	1,588.49	647.76	576.32	71.44	9.067		
9,400.00	7,730.00	9,125.21	7,630.00	51.65	42.60	81.12	621.40	1,588.16	647.75	576.56	71.19	9.099		
9,500.00	7,730.00	9,225.21	7,630.00	51.29	42.21	81.12	521.40	1,587.82	647.75	576.64	71.11	9.109		
9,600.00	7,730.00	9,325.21	7,630.00	50.95	41.85	81.12	421.40	1,587.48	647.75	576.54	71.21	9.096		
9,700.00	7,730.00	9,425.21	7,630.00	50.64	41.50	81.12	321.40	1,587.14	647.74	576.27	71.48	9.062		
9,800.00	7,730.00	9,525.21	7,630.00	50.35	41.19	81.12	221.40	1,586.80	647.74	575.83	71.91	9.007		
9,900.00	7,730.00	9,625.21	7,630.00	50.09	40.89	81.12	121.40	1,586.46	647.74	575.22	72.52	8.932		
10,000.00	7,730.00	9,725.21	7,630.00	49.86	40.61	81.12	21.40	1,586.13	647.74	574.45	73.28	8.839		
10,100.00	7,730.00	9,825.21	7,630.00	49.65	40.35	81.12	-78.60	1,585.79	647.73	573.53	74.21	8.729		
10,200.00	7,730.00	9,925.21	7,630.00	49.48	40.10	81.12	-178.60	1,585.45	647.73	572.45	75.28	8.604		
10,300.00	7,730.00	10,025.21	7,630.00	49.35	39.87	81.12	-278.60	1,585.11	647.73	571.23	76.50	8.467		
10,400.00	7,730.00	10,125.21	7,630.00	49.27	40.25	81.12	-378.60	1,584.77	647.73	569.87	77.86	8.319		
10,500.00	7,730.00	10,225.21	7,630.00	49.26	41.19	81.12	-478.60	1,584.44	647.72	568.37	79.35	8.163		
10,600.00	7,730.00	10,325.21	7,630.00	49.32	42.20	81.12	-578.60	1,584.10	647.72	566.76	80.96	8.000		
10,700.00	7,730.00	10,425.21	7,630.00	49.51	43.25	81.12	-678.60	1,583.76	647.72	565.03	82.69	7.833		
10,800.00	7,730.00	10,525.21	7,630.00	49.83	44.34	81.12	-778.60	1,583.42	647.71	563.18	84.53	7.663		
10,900.00	7,730.00	10,625.21	7,630.00	50.31	45.46	81.12	-878.60	1,583.08	647.71	561.24	86.47	7.490		
11,000.00	7,730.00	10,725.21	7,630.00	50.96	46.61	81.12	-978.59	1,582.74	647.71	559.20	88.51	7.318		
11,100.00	7,730.00	10,825.21	7,630.00	51.75	47.80	81.12	-1,078.59	1,582.41	647.71	557.07	90.64	7.146		
11,200.00	7,730.00	10,925.21	7,630.00	52.66	49.01	81.12	-1,178.59	1,582.07	647.70	554.86	92.85	6.976		
11,300.00	7,730.00	11,025.21	7,630.00	53.67	50.25	81.12	-1,278.59	1,581.73	647.70	552.56	95.14	6.808		
11,400.00	7,730.00	11,125.21	7,630.00	54.75	51.52	81.12	-1,378.59	1,581.39	647.70	550.20	97.50	6.643		
11,500.00	7,730.00	11,225.21	7,630.00	55.89	52.81	81.12	-1,478.59	1,581.05	647.70	547.77	99.92	6.482		
11,600.00	7,730.00	11,325.21	7,630.00	57.07	54.12	81.12	-1,578.59	1,580.72	647.69	545.28	102.41	6.324		
11,700.00	7,730.00	11,425.21	7,630.00	58.30	55.46	81.12	-1,678.59	1,580.38	647.69	542.73	104.96	6.171		
11,800.00	7,730.00	11,525.21	7,630.00	59.55	56.81	81.12	-1,778.59	1,580.04	647.69	540.13	107.56	6.022		
11,900.00	7,730.00	11,625.21	7,630.00	60.84	58.18	81.12	-1,878.59	1,579.70	647.68	537.48	110.21	5.877		
12,000.00	7,730.00	11,725.21	7,630.00	62.15	59.57	81.12	-1,978.59	1,579.36	647.68	534.78	112.91	5.737		
12,100.00	7,730.00	11,825.21	7,630.00	63.49	60.98	81.12	-2,078.59	1,579.02	647.68	532.03	115.64	5.601		
12,200.00	7,730.00	11,925.21	7,630.00	64.85	62.40	81.12	-2,178.59	1,578.69	647.68	529.25	118.42	5.469		
12,300.00	7,730.00	12,025.21	7,630.00	66.22	63.84	81.12	-2,278.59	1,578.35	647.67	526.43	121.24	5.342		
12,400.00	7,730.00	12,125.21	7,630.00	67.62	65.30	81.12	-2,378.59	1,578.01	647.67	523.58	124.09	5.219		
12,500.00	7,730.00	12,225.21	7,630.00	69.03	66.76	81.12	-2,478.59	1,577.67	647.67	520.69	126.98	5.101		
12,600.00	7,730.00	12,325.21	7,630.00	70.45	68.24	81.12	-2,578.59	1,577.33	647.67	517.77	129.89	4.986		
12,700.00	7,730.00	12,425.21	7,630.00	71.90	69.73	81.12	-2,678.58	1,577.00	647.66	514.83	132.83	4.876		
12,800.00	7,730.00	12,525.21	7,630.00	73.35	71.23	81.12	-2,778.58	1,576.66	647.66	511.86	135.80	4.769		
12,900.00	7,730.00	12,625.21	7,630.00	74.81	72.74	81.12	-2,878.58	1,576.32	647.66	508.86	138.80	4.666		
13,000.00	7,730.00	12,725.21	7,630.00	76.29	74.27	81.12	-2,978.58	1,575.98	647.65	505.84	141.81	4.567		
13,100.00	7,730.00	12,825.21	7,630.00	77.78	75.80	81.12	-3,078.58	1,575.64	647.65	502.80	144.85	4.471		
13,200.00	7,730.00	12,925.21	7,630.00	79.28	77.34	81.12	-3,178.58	1,575.30	647.65	499.74	147.91	4.379		
13,300.00	7,730.00	13,025.21	7,630.00	80.79	78.89	81.12	-3,278.58	1,574.97	647.65	496.66	150.99	4.289		
13,400.00	7,730.00	13,125.21	7,630.00	82.31	80.44	81.12	-3,378.58	1,574.63	647.64	493.56	154.09	4.203		
13,500.00	7,730.00	13,225.21	7,630.00	83.84	82.01	81.12	-3,478.58	1,574.29	647.64	490.44	157.20	4.120		
13,600.00	7,730.00	13,325.21	7,630.00	85.37	83.58	81.12	-3,578.58	1,573.95	647.64	487.31	160.33	4.039		
13,700.00	7,730.00	13,425.21	7,630.00	86.92	85.16	81.12	-3,678.58	1,573.61	647.64	484.16	163.47	3.962		
13,800.00	7,730.00	13,525.21	7,630.00	88.47	86.75	81.12	-3,778.58	1,573.28	647.63	481.00	166.63	3.887		
13,900.00	7,730.00	13,625.21	7,630.00	90.03	88.34	81.12	-3,878.58	1,572.94	647.63	477.83	169.80	3.814		
14,000.00	7,730.00	13,725.21	7,630.00	91.59	89.94	81.12	-3,978.58	1,572.60	647.63	474.64	172.99	3.744		
14,100.00	7,730.00	13,825.21	7,630.00	93.16	91.54	81.12	-4,078.58	1,572.26	647.62	471.44	176.19	3.676		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	13,925.21	7,630.00	94.74	93.15	81.12	-4,178.58	1,571.92	647.62	468.23	179.39	3.610		
14,300.00	7,730.00	14,025.21	7,630.00	96.33	94.76	81.12	-4,278.58	1,571.58	647.62	465.01	182.61	3.546		
14,400.00	7,730.00	14,125.21	7,630.00	97.92	96.38	81.12	-4,378.58	1,571.25	647.62	461.78	185.84	3.485		
14,500.00	7,730.00	14,225.21	7,630.00	99.51	98.01	81.12	-4,478.57	1,570.91	647.61	458.53	189.08	3.425		
14,600.00	7,730.00	14,325.21	7,630.00	101.11	99.63	81.12	-4,578.57	1,570.57	647.61	455.28	192.33	3.367		
14,700.00	7,730.00	14,425.21	7,630.00	102.72	101.27	81.12	-4,678.57	1,570.23	647.61	452.02	195.58	3.311		
14,800.00	7,730.00	14,525.21	7,630.00	104.33	102.90	81.12	-4,778.57	1,569.89	647.61	448.76	198.85	3.257		
14,900.00	7,730.00	14,625.21	7,630.00	105.94	104.54	81.12	-4,878.57	1,569.56	647.60	445.48	202.12	3.204		
15,000.00	7,730.00	14,725.21	7,630.00	107.56	106.19	81.12	-4,978.57	1,569.22	647.60	442.20	205.40	3.153		
15,100.00	7,730.00	14,825.21	7,630.00	109.18	107.84	81.12	-5,078.57	1,568.88	647.60	438.91	208.69	3.103		
15,200.00	7,730.00	14,925.21	7,630.00	110.81	109.49	81.12	-5,178.57	1,568.54	647.59	435.61	211.98	3.055		
15,300.00	7,730.00	15,025.21	7,630.00	112.44	111.14	81.12	-5,278.57	1,568.20	647.59	432.31	215.28	3.008		
15,400.00	7,730.00	15,125.21	7,630.00	114.08	112.80	81.12	-5,378.57	1,567.86	647.59	429.00	218.59	2.963		
15,500.00	7,730.00	15,225.21	7,630.00	115.72	114.46	81.12	-5,478.57	1,567.53	647.59	425.68	221.90	2.918		
15,600.00	7,730.00	15,325.21	7,630.00	117.36	116.13	81.12	-5,578.57	1,567.19	647.58	422.36	225.22	2.875		
15,700.00	7,730.00	15,425.21	7,630.00	119.00	117.79	81.12	-5,678.57	1,566.85	647.58	419.04	228.54	2.834		
15,800.00	7,730.00	15,525.21	7,630.00	120.65	119.46	81.12	-5,778.57	1,566.51	647.58	415.71	231.87	2.793		
15,900.00	7,730.00	15,625.21	7,630.00	122.30	121.13	81.12	-5,878.57	1,566.17	647.58	412.37	235.21	2.753		
16,000.00	7,730.00	15,725.21	7,630.00	123.96	122.81	81.12	-5,978.57	1,565.84	647.57	409.03	238.54	2.715		
16,100.00	7,730.00	15,825.21	7,630.00	125.61	124.48	81.12	-6,078.57	1,565.50	647.57	405.68	241.89	2.677		
16,200.00	7,730.00	15,925.21	7,630.00	127.27	126.16	81.12	-6,178.56	1,565.16	647.57	402.33	245.24	2.641		
16,300.00	7,730.00	16,025.21	7,630.00	128.94	127.85	81.12	-6,278.56	1,564.82	647.56	398.98	248.59	2.605		
16,400.00	7,730.00	16,125.21	7,630.00	130.60	129.53	81.12	-6,378.56	1,564.48	647.56	395.62	251.94	2.570		
16,500.00	7,730.00	16,225.21	7,630.00	132.27	131.21	81.12	-6,478.56	1,564.14	647.56	392.26	255.30	2.536		
16,600.00	7,730.00	16,325.21	7,630.00	133.94	132.90	81.12	-6,578.56	1,563.81	647.56	388.89	258.67	2.503		
16,700.00	7,730.00	16,425.21	7,630.00	135.61	134.59	81.12	-6,678.56	1,563.47	647.55	385.52	262.03	2.471		
16,800.00	7,730.00	16,525.21	7,630.00	137.28	136.28	81.12	-6,778.56	1,563.13	647.55	382.15	265.40	2.440		
16,900.00	7,730.00	16,625.21	7,630.00	138.96	137.98	81.12	-6,878.56	1,562.79	647.55	378.77	268.78	2.409		
17,000.00	7,730.00	16,725.21	7,630.00	140.64	139.67	81.12	-6,978.56	1,562.45	647.54	375.39	272.15	2.379		
17,100.00	7,730.00	16,825.21	7,630.00	142.32	141.37	81.12	-7,078.56	1,562.12	647.54	372.01	275.53	2.350		
17,200.00	7,730.00	16,925.21	7,630.00	144.00	143.07	81.12	-7,178.56	1,561.78	647.54	368.62	278.92	2.322		
17,300.00	7,730.00	17,025.21	7,630.00	145.69	144.77	81.12	-7,278.56	1,561.44	647.54	365.23	282.30	2.294		
17,400.00	7,730.00	17,125.21	7,630.00	147.37	146.47	81.12	-7,378.56	1,561.10	647.53	361.84	285.69	2.267		
17,500.00	7,730.00	17,225.21	7,630.00	149.06	148.17	81.12	-7,478.56	1,560.76	647.53	358.45	289.08	2.240		
17,600.00	7,730.00	17,325.21	7,630.00	150.75	149.87	81.12	-7,578.56	1,560.42	647.53	355.05	292.48	2.214		
17,700.00	7,730.00	17,425.21	7,630.00	152.44	151.58	81.12	-7,678.56	1,560.09	647.53	351.65	295.87	2.189		
17,800.00	7,730.00	17,525.21	7,630.00	154.13	153.29	81.12	-7,778.56	1,559.75	647.52	348.25	299.27	2.164		
17,900.00	7,730.00	17,625.21	7,630.00	155.83	155.00	81.12	-7,878.56	1,559.41	647.52	344.85	302.67	2.139		
18,000.00	7,730.00	17,725.21	7,630.00	157.52	156.70	81.12	-7,978.55	1,559.07	647.52	341.44	306.08	2.116		
18,100.00	7,730.00	17,825.21	7,630.00	159.22	158.42	81.12	-8,078.55	1,558.73	647.51	338.03	309.48	2.092		
18,200.00	7,730.00	17,925.21	7,630.00	160.92	160.13	81.12	-8,178.55	1,558.40	647.51	334.62	312.89	2.069		
18,300.00	7,730.00	18,025.21	7,630.00	162.62	161.84	81.12	-8,278.55	1,558.06	647.51	331.21	316.30	2.047		
18,400.00	7,730.00	18,125.21	7,630.00	164.32	163.55	81.12	-8,378.55	1,557.72	647.51	327.80	319.71	2.025		
18,426.22	7,730.00	18,151.43	7,630.00	164.76	164.00	81.12	-8,404.77	1,557.63	647.51	326.90	320.60	2.020 SF		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	49.39	1,787.82	2,085.39	8,196.70					
100.00	100.00	16,236.00	7,569.74	0.13	158.98	49.39	1,787.82	2,085.39	8,102.55	8,022.76	79.79	101.543		
200.00	200.00	16,236.00	7,569.74	0.49	158.98	49.39	1,787.82	2,085.39	8,008.54	7,928.58	79.97	100.146		
300.00	300.00	16,236.00	7,569.74	0.85	158.98	49.39	1,787.82	2,085.39	7,914.68	7,834.52	80.16	98.736		
400.00	400.00	16,236.00	7,569.74	1.21	158.98	49.39	1,787.82	2,085.39	7,820.98	7,740.61	80.37	97.314		
500.00	500.00	16,236.00	7,569.74	1.57	158.98	49.39	1,787.82	2,085.39	7,727.43	7,646.83	80.60	95.879		
600.00	600.00	16,236.00	7,569.74	1.93	158.98	49.39	1,787.82	2,085.39	7,634.04	7,553.20	80.84	94.434		
700.00	700.00	16,236.00	7,569.74	2.29	158.98	49.39	1,787.82	2,085.39	7,540.82	7,459.72	81.10	92.979		
800.00	800.00	16,236.00	7,569.74	2.64	158.98	49.39	1,787.82	2,085.39	7,447.78	7,366.40	81.38	91.516		
900.00	900.00	16,236.00	7,569.74	3.00	158.98	49.39	1,787.82	2,085.39	7,354.93	7,273.25	81.68	90.045		
1,000.00	1,000.00	16,236.00	7,569.74	3.36	158.98	49.39	1,787.82	2,085.39	7,262.26	7,180.26	81.99	88.570		
1,100.00	1,100.00	16,236.00	7,569.74	3.72	158.98	49.39	1,787.82	2,085.39	7,169.79	7,087.46	82.33	87.090		
1,200.00	1,200.00	16,236.00	7,569.74	4.08	158.98	49.39	1,787.82	2,085.39	7,077.52	6,994.85	82.67	85.607		
1,300.00	1,299.98	16,236.00	7,569.74	4.43	158.98	2.48	1,787.82	2,085.39	6,984.80	6,901.76	83.04	84.116		
1,400.00	1,399.84	16,236.00	7,569.74	4.79	158.98	2.72	1,787.82	2,085.39	6,891.01	6,807.61	83.40	82.627		
1,500.00	1,499.45	16,236.00	7,569.74	5.15	158.98	3.02	1,787.82	2,085.39	6,796.22	6,712.47	83.74	81.154		
1,600.00	1,598.70	16,236.00	7,569.74	5.51	158.98	3.39	1,787.82	2,085.39	6,700.50	6,616.43	84.07	79.698		
1,700.00	1,697.47	16,236.00	7,569.74	5.89	158.98	3.86	1,787.82	2,085.39	6,603.94	6,519.56	84.38	78.260		
1,800.00	1,795.62	16,236.00	7,569.74	6.28	158.98	4.48	1,787.82	2,085.39	6,506.62	6,421.95	84.67	76.843		
1,900.00	1,893.06	16,236.00	7,569.74	6.69	158.98	5.32	1,787.82	2,085.39	6,408.63	6,323.68	84.94	75.447		
2,000.00	1,989.64	16,236.00	7,569.74	7.13	158.98	6.53	1,787.82	2,085.39	6,310.05	6,224.86	85.19	74.073		
2,100.00	2,085.27	16,236.00	7,569.74	7.61	158.98	8.43	1,787.82	2,085.39	6,210.98	6,125.57	85.41	72.724		
2,200.00	2,179.82	16,236.00	7,569.74	8.12	158.98	11.81	1,787.82	2,085.39	6,111.52	6,025.92	85.60	71.399		
2,300.00	2,273.17	16,236.00	7,569.74	8.67	158.98	19.36	1,787.82	2,085.39	6,011.77	5,926.01	85.76	70.101		
2,400.00	2,365.21	16,236.00	7,569.74	9.27	158.98	46.87	1,787.82	2,085.39	5,911.85	5,825.96	85.89	68.830		
2,500.00	2,455.84	16,236.00	7,569.74	9.92	158.98	133.28	1,787.82	2,085.39	5,811.87	5,725.88	85.99	67.587		
2,580.62	2,527.80	16,236.00	7,569.74	10.49	158.98	157.65	1,787.82	2,085.39	5,731.31	5,645.26	86.05	66.606		
2,600.00	2,544.97	16,236.00	7,569.74	10.63	158.98	157.65	1,787.82	2,085.39	5,711.96	5,625.90	86.06	66.373		
2,700.00	2,633.58	16,236.00	7,569.74	11.37	158.98	157.65	1,787.82	2,085.39	5,612.09	5,525.97	86.12	65.167		
2,800.00	2,722.19	16,236.00	7,569.74	12.13	158.98	157.65	1,787.82	2,085.39	5,512.22	5,426.04	86.18	63.961		
2,900.00	2,810.80	16,236.00	7,569.74	12.91	158.98	157.65	1,787.82	2,085.39	5,412.36	5,326.11	86.25	62.754		
3,000.00	2,899.41	16,236.00	7,569.74	13.71	158.98	157.65	1,787.82	2,085.39	5,312.50	5,226.18	86.31	61.548		
3,100.00	2,988.02	16,236.00	7,569.74	14.52	158.98	157.65	1,787.82	2,085.39	5,212.65	5,126.26	86.39	60.341		
3,200.00	3,076.63	16,236.00	7,569.74	15.34	158.98	157.65	1,787.82	2,085.39	5,112.80	5,026.34	86.46	59.135		
3,300.00	3,165.24	16,236.00	7,569.74	16.16	158.98	157.65	1,787.82	2,085.39	5,012.96	4,926.42	86.54	57.930		
3,400.00	3,253.85	16,236.00	7,569.74	17.00	158.98	157.65	1,787.82	2,085.39	4,913.13	4,826.51	86.61	56.724		
3,500.00	3,342.46	16,236.00	7,569.74	17.84	158.98	157.65	1,787.82	2,085.39	4,813.30	4,726.61	86.70	55.520		
3,600.00	3,431.07	16,236.00	7,569.74	18.69	158.98	157.65	1,787.82	2,085.39	4,713.48	4,626.70	86.78	54.316		
3,700.00	3,519.68	16,236.00	7,569.74	19.55	158.98	157.65	1,787.82	2,085.39	4,613.67	4,526.81	86.86	53.113		
3,800.00	3,608.29	16,236.00	7,569.74	20.40	158.98	157.65	1,787.82	2,085.39	4,513.87	4,426.91	86.95	51.912		
3,900.00	3,696.90	16,236.00	7,569.74	21.26	158.98	157.65	1,787.82	2,085.39	4,414.07	4,327.03	87.04	50.711		
4,000.00	3,785.51	16,236.00	7,569.74	22.13	158.98	157.65	1,787.82	2,085.39	4,314.29	4,227.15	87.14	49.512		
4,100.00	3,874.12	16,236.00	7,569.74	23.00	158.98	157.65	1,787.82	2,085.39	4,214.51	4,127.28	87.23	48.315		
4,200.00	3,962.73	16,236.00	7,569.74	23.87	158.98	157.65	1,787.82	2,085.39	4,114.75	4,027.42	87.33	47.119		
4,300.00	4,051.34	16,236.00	7,569.74	24.74	158.98	157.65	1,787.82	2,085.39	4,015.00	3,927.57	87.43	45.924		
4,400.00	4,139.95	16,236.00	7,569.74	25.62	158.98	157.65	1,787.82	2,085.39	3,915.26	3,827.73	87.53	44.732		
4,500.00	4,228.56	16,236.00	7,569.74	26.49	158.98	157.65	1,787.82	2,085.39	3,815.54	3,727.91	87.63	43.542		
4,600.00	4,317.17	16,236.00	7,569.74	27.37	158.98	157.65	1,787.82	2,085.39	3,715.83	3,628.09	87.73	42.353		
4,700.00	4,405.78	16,236.00	7,569.74	28.25	158.98	157.65	1,787.82	2,085.39	3,616.13	3,528.29	87.84	41.167		
4,800.00	4,494.39	16,236.00	7,569.74	29.13	158.98	157.65	1,787.82	2,085.39	3,516.45	3,428.51	87.95	39.983		
4,900.00	4,583.00	16,236.00	7,569.74	30.02	158.98	157.65	1,787.82	2,085.39	3,416.80	3,328.74	88.06	38.802		
5,000.00	4,671.61	16,236.00	7,569.74	30.90	158.98	157.65	1,787.82	2,085.39	3,317.16	3,228.99	88.17	37.623		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	16,236.00	7,569.74	31.79	158.98	157.65	1,787.82	2,085.39	3,217.54	3,129.26	88.28	36.447		
5,200.00	4,848.83	16,236.00	7,569.74	32.67	158.98	157.65	1,787.82	2,085.39	3,117.95	3,029.56	88.39	35.273		
5,300.00	4,937.44	16,236.00	7,569.74	33.56	158.98	157.65	1,787.82	2,085.39	3,018.39	2,929.88	88.51	34.103		
5,400.00	5,026.05	16,236.00	7,569.74	34.45	158.98	157.65	1,787.82	2,085.39	2,918.86	2,830.23	88.62	32.935		
5,500.00	5,114.66	16,236.00	7,569.74	35.34	158.98	157.65	1,787.82	2,085.39	2,819.36	2,730.61	88.74	31.771		
5,600.00	5,203.27	16,236.00	7,569.74	36.23	158.98	157.65	1,787.82	2,085.39	2,719.89	2,631.03	88.86	30.609		
5,700.00	5,291.88	16,236.00	7,569.74	37.12	158.98	157.65	1,787.82	2,085.39	2,620.47	2,531.49	88.98	29.451		
5,800.00	5,380.50	16,236.00	7,569.74	38.01	158.98	157.65	1,787.82	2,085.39	2,521.09	2,432.00	89.10	28.296		
5,900.00	5,469.11	16,236.00	7,569.74	38.90	158.98	157.65	1,787.82	2,085.39	2,421.77	2,332.55	89.21	27.145		
6,000.00	5,557.72	16,236.00	7,569.74	39.79	158.98	157.65	1,787.82	2,085.39	2,322.50	2,233.16	89.33	25.998		
6,100.00	5,646.33	16,236.00	7,569.74	40.68	158.98	157.65	1,787.82	2,085.39	2,223.29	2,133.84	89.45	24.854		
6,200.00	5,734.94	16,236.00	7,569.74	41.58	158.98	157.65	1,787.82	2,085.39	2,124.17	2,034.59	89.57	23.714		
6,300.00	5,823.55	16,236.00	7,569.74	42.47	158.98	157.65	1,787.82	2,085.39	2,025.12	1,935.43	89.70	22.578		
6,400.00	5,912.16	16,236.00	7,569.74	43.36	158.98	157.65	1,787.82	2,085.39	1,926.18	1,836.36	89.82	21.446		
6,500.00	6,000.77	16,236.00	7,569.74	44.26	158.98	157.65	1,787.82	2,085.39	1,827.35	1,737.42	89.94	20.318		
6,600.00	6,089.38	16,236.00	7,569.74	45.15	158.98	157.65	1,787.82	2,085.39	1,728.66	1,638.60	90.06	19.195		
6,700.00	6,177.99	16,236.00	7,569.74	46.05	158.98	157.65	1,787.82	2,085.39	1,630.13	1,539.94	90.18	18.076		
6,800.00	6,266.60	16,236.00	7,569.74	46.94	158.98	157.65	1,787.82	2,085.39	1,531.78	1,441.48	90.31	16.962		
6,900.00	6,355.21	16,236.00	7,569.74	47.84	158.98	157.65	1,787.82	2,085.39	1,433.67	1,343.23	90.43	15.853		
7,000.00	6,443.82	16,236.00	7,569.74	48.74	158.98	157.65	1,787.82	2,085.39	1,335.83	1,245.27	90.56	14.750		
7,100.00	6,532.43	16,236.00	7,569.74	49.63	158.98	157.65	1,787.82	2,085.39	1,238.34	1,147.64	90.70	13.653		
7,200.00	6,621.04	16,236.00	7,569.74	50.53	158.98	157.65	1,787.82	2,085.39	1,141.29	1,050.44	90.85	12.562		
7,300.00	6,709.65	16,236.00	7,569.74	51.42	158.98	157.65	1,787.82	2,085.39	1,044.79	953.78	91.01	11.480		
7,400.00	6,798.26	16,236.00	7,569.74	52.32	158.98	157.65	1,787.82	2,085.39	949.01	857.82	91.20	10.406		
7,500.00	6,886.87	16,236.00	7,569.74	53.22	158.98	157.65	1,787.82	2,085.39	854.21	762.80	91.41	9.345		
7,600.00	6,975.48	16,225.21	7,569.80	54.12	158.79	158.61	1,798.61	2,085.58	760.66	669.47	91.19	8.341		
7,656.30	7,025.36	16,206.86	7,569.89	54.62	158.47	160.41	1,816.96	2,085.91	708.30	617.80	90.50	7.827		
7,700.00	7,064.54	16,194.20	7,569.96	55.00	158.25	161.76	1,829.62	2,086.14	667.25	577.32	89.93	7.419		
7,750.00	7,110.29	16,183.81	7,570.01	55.40	158.07	165.67	1,840.00	2,086.32	619.44	530.16	89.27	6.939		
7,800.00	7,156.67	16,177.26	7,570.05	55.75	157.96	172.60	1,846.55	2,086.44	571.10	482.51	88.59	6.447		
7,850.00	7,203.34	16,175.31	7,570.06	56.05	157.92	179.66	1,848.50	2,086.47	522.66	434.71	87.95	5.942		
7,900.00	7,249.95	16,177.91	7,570.04	56.30	157.97	-176.87	1,845.90	2,086.43	474.59	387.13	87.46	5.426		
7,950.00	7,296.14	16,185.00	7,570.01	56.50	158.09	-177.36	1,838.81	2,086.30	427.33	340.10	87.24	4.899		
8,000.00	7,341.56	16,195.96	7,569.95	56.64	158.28	179.94	1,827.85	2,086.11	381.40	293.90	87.50	4.359		
8,050.00	7,385.86	16,211.27	7,569.87	56.74	158.55	176.04	1,812.54	2,085.83	337.34	248.66	88.68	3.804		
8,100.00	7,428.71	16,230.67	7,569.77	56.79	158.89	171.50	1,793.15	2,085.48	295.75	204.36	91.39	3.236		
8,150.00	7,469.77	16,236.00	7,569.74	56.80	158.98	170.14	1,787.82	2,085.39	257.94	161.55	96.39	2.676		
8,200.00	7,508.75	16,236.00	7,569.74	56.77	158.98	169.35	1,787.82	2,085.39	227.33	121.65	105.68	2.151		
8,250.00	7,545.33	16,236.00	7,569.74	56.70	158.98	168.03	1,787.82	2,085.39	207.48	88.77	118.71	1.748		
8,293.56	7,575.04	16,236.00	7,569.74	56.60	158.98	166.44	1,787.82	2,085.39	201.63	71.78	129.85	1.553 CC		
8,300.00	7,579.25	16,236.00	7,569.74	56.59	158.98	166.17	1,787.82	2,085.39	201.76	70.52	131.24	1.537 ES		
8,350.00	7,610.24	16,236.00	7,569.74	56.45	158.98	163.70	1,787.82	2,085.39	211.35	72.96	138.39	1.527 SF		
8,400.00	7,638.06	16,236.00	7,569.74	56.28	158.98	160.46	1,787.82	2,085.39	234.33	95.06	139.27	1.683		
8,450.00	7,662.52	16,236.00	7,569.74	56.09	158.98	156.17	1,787.82	2,085.39	267.12	130.89	136.22	1.961		
8,500.00	7,683.41	16,236.00	7,569.74	55.88	158.98	150.37	1,787.82	2,085.39	306.37	174.79	131.59	2.328		
8,550.00	7,700.59	16,236.00	7,569.74	55.64	158.98	142.45	1,787.82	2,085.39	349.68	223.05	126.63	2.761		
8,600.00	7,713.91	16,236.00	7,569.74	55.39	158.98	131.61	1,787.82	2,085.39	395.45	273.58	121.86	3.245		
8,650.00	7,723.29	16,236.00	7,569.74	55.14	158.98	117.41	1,787.82	2,085.39	442.61	325.19	117.43	3.769		
8,700.00	7,728.64	16,236.00	7,569.74	54.87	158.98	100.75	1,787.82	2,085.39	490.47	377.14	113.33	4.328		
8,740.83	7,730.00	16,236.00	7,569.74	54.65	158.98	87.17	1,787.82	2,085.39	529.71	419.49	110.21	4.806		
8,800.00	7,730.00	16,236.00	7,569.74	54.33	158.98	87.17	1,787.82	2,085.39	586.78	480.51	106.27	5.521		
8,900.00	7,730.00	16,236.00	7,569.74	53.82	158.98	87.17	1,787.82	2,085.39	684.06	582.86	101.20	6.759		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	16,236.00	7,569.74	53.33	158.98	87.17	1,787.82	2,085.39	782.02	684.53	97.49	8.021		
9,100.00	7,730.00	16,236.00	7,569.74	52.87	158.98	87.17	1,787.82	2,085.39	880.44	785.75	94.69	9.298		
9,200.00	7,730.00	16,236.00	7,569.74	52.44	158.98	87.17	1,787.82	2,085.39	979.18	886.66	92.52	10.583		
9,300.00	7,730.00	16,236.00	7,569.74	52.03	158.98	87.17	1,787.82	2,085.39	1,078.15	987.35	90.80	11.874		
9,400.00	7,730.00	16,236.00	7,569.74	51.65	158.98	87.17	1,787.82	2,085.39	1,177.30	1,087.88	89.41	13.167		
9,500.00	7,730.00	16,236.00	7,569.74	51.29	158.98	87.17	1,787.82	2,085.39	1,276.58	1,188.30	88.27	14.461		
9,600.00	7,730.00	16,236.00	7,569.74	50.95	158.98	87.17	1,787.82	2,085.39	1,375.96	1,288.63	87.33	15.756		
9,700.00	7,730.00	16,236.00	7,569.74	50.64	158.98	87.17	1,787.82	2,085.39	1,475.43	1,388.90	86.53	17.051		
9,800.00	7,730.00	16,236.00	7,569.74	50.35	158.98	87.17	1,787.82	2,085.39	1,574.96	1,489.11	85.85	18.346		
9,900.00	7,730.00	16,236.00	7,569.74	50.09	158.98	87.17	1,787.82	2,085.39	1,674.55	1,589.29	85.26	19.640		
10,000.00	7,730.00	16,236.00	7,569.74	49.86	158.98	87.17	1,787.82	2,085.39	1,774.19	1,689.43	84.76	20.933		
10,100.00	7,730.00	16,236.00	7,569.74	49.65	158.98	87.17	1,787.82	2,085.39	1,873.86	1,789.55	84.31	22.225		
10,200.00	7,730.00	16,236.00	7,569.74	49.48	158.98	87.17	1,787.82	2,085.39	1,973.57	1,889.65	83.92	23.516		
10,300.00	7,730.00	16,236.00	7,569.74	49.35	158.98	87.17	1,787.82	2,085.39	2,073.31	1,989.73	83.58	24.807		
10,400.00	7,730.00	16,236.00	7,569.74	49.27	158.98	87.17	1,787.82	2,085.39	2,173.07	2,089.80	83.27	26.096		
10,500.00	7,730.00	16,236.00	7,569.74	49.26	158.98	87.17	1,787.82	2,085.39	2,272.85	2,189.85	83.00	27.385		
10,600.00	7,730.00	16,236.00	7,569.74	49.32	158.98	87.17	1,787.82	2,085.39	2,372.65	2,289.90	82.75	28.672		
10,700.00	7,730.00	16,236.00	7,569.74	49.51	158.98	87.17	1,787.82	2,085.39	2,472.46	2,389.94	82.53	29.959		
10,800.00	7,730.00	16,236.00	7,569.74	49.83	158.98	87.17	1,787.82	2,085.39	2,572.29	2,489.97	82.33	31.245		
10,900.00	7,730.00	16,236.00	7,569.74	50.31	158.98	87.17	1,787.82	2,085.39	2,672.14	2,589.99	82.14	32.530		
11,000.00	7,730.00	16,236.00	7,569.74	50.96	158.98	87.17	1,787.82	2,085.39	2,771.99	2,690.01	81.98	33.814		
11,100.00	7,730.00	16,236.00	7,569.74	51.75	158.98	87.17	1,787.82	2,085.39	2,871.86	2,790.03	81.83	35.097		
11,200.00	7,730.00	16,236.00	7,569.74	52.66	158.98	87.17	1,787.82	2,085.39	2,971.73	2,890.04	81.69	36.379		
11,300.00	7,730.00	16,236.00	7,569.74	53.67	158.98	87.17	1,787.82	2,085.39	3,071.61	2,990.05	81.56	37.660		
11,400.00	7,730.00	16,236.00	7,569.74	54.75	158.98	87.17	1,787.82	2,085.39	3,171.50	3,090.06	81.44	38.941		
11,500.00	7,730.00	16,236.00	7,569.74	55.89	158.98	87.17	1,787.82	2,085.39	3,271.40	3,190.06	81.34	40.221		
11,600.00	7,730.00	16,236.00	7,569.74	57.07	158.98	87.17	1,787.82	2,085.39	3,371.30	3,290.06	81.24	41.499		
11,700.00	7,730.00	16,236.00	7,569.74	58.30	158.98	87.17	1,787.82	2,085.39	3,471.21	3,390.06	81.15	42.777		
11,800.00	7,730.00	16,236.00	7,569.74	59.55	158.98	87.17	1,787.82	2,085.39	3,571.12	3,490.06	81.06	44.054		
11,900.00	7,730.00	16,236.00	7,569.74	60.84	158.98	87.17	1,787.82	2,085.39	3,671.04	3,590.05	80.98	45.330		
12,000.00	7,730.00	16,236.00	7,569.74	62.15	158.98	87.17	1,787.82	2,085.39	3,770.96	3,690.05	80.91	46.605		
12,100.00	7,730.00	16,236.00	7,569.74	63.49	158.98	87.17	1,787.82	2,085.39	3,870.88	3,790.04	80.85	47.880		
12,200.00	7,730.00	16,236.00	7,569.74	64.85	158.98	87.17	1,787.82	2,085.39	3,970.81	3,890.03	80.79	49.153		
12,300.00	7,730.00	16,236.00	7,569.74	66.22	158.98	87.17	1,787.82	2,085.39	4,070.75	3,990.02	80.73	50.425		
12,400.00	7,730.00	16,236.00	7,569.74	67.62	158.98	87.17	1,787.82	2,085.39	4,170.68	4,090.01	80.68	51.697		
12,500.00	7,730.00	16,236.00	7,569.74	69.03	158.98	87.17	1,787.82	2,085.39	4,270.62	4,189.99	80.63	52.967		
12,600.00	7,730.00	16,236.00	7,569.74	70.45	158.98	87.17	1,787.82	2,085.39	4,370.56	4,289.98	80.58	54.237		
12,700.00	7,730.00	16,236.00	7,569.74	71.90	158.98	87.17	1,787.82	2,085.39	4,470.51	4,389.97	80.54	55.505		
12,800.00	7,730.00	16,236.00	7,569.74	73.35	158.98	87.17	1,787.82	2,085.39	4,570.46	4,489.95	80.50	56.772		
12,900.00	7,730.00	16,236.00	7,569.74	74.81	158.98	87.17	1,787.82	2,085.39	4,670.41	4,589.94	80.47	58.039		
13,000.00	7,730.00	16,236.00	7,569.74	76.29	158.98	87.17	1,787.82	2,085.39	4,770.36	4,689.92	80.44	59.304		
13,100.00	7,730.00	16,236.00	7,569.74	77.78	158.98	87.17	1,787.82	2,085.39	4,870.31	4,789.90	80.41	60.569		
13,200.00	7,730.00	16,236.00	7,569.74	79.28	158.98	87.17	1,787.82	2,085.39	4,970.27	4,889.88	80.38	61.832		
13,300.00	7,730.00	16,236.00	7,569.74	80.79	158.98	87.17	1,787.82	2,085.39	5,070.22	4,989.86	80.36	63.094		
13,400.00	7,730.00	16,236.00	7,569.74	82.31	158.98	87.17	1,787.82	2,085.39	5,170.18	5,089.84	80.34	64.355		
13,500.00	7,730.00	16,236.00	7,569.74	83.84	158.98	87.17	1,787.82	2,085.39	5,270.14	5,189.82	80.32	65.615		
13,600.00	7,730.00	16,236.00	7,569.74	85.37	158.98	87.17	1,787.82	2,085.39	5,370.10	5,289.80	80.30	66.873		
13,700.00	7,730.00	16,236.00	7,569.74	86.92	158.98	87.17	1,787.82	2,085.39	5,470.07	5,389.78	80.29	68.131		
13,800.00	7,730.00	16,236.00	7,569.74	88.47	158.98	87.17	1,787.82	2,085.39	5,570.03	5,489.76	80.27	69.387		
13,900.00	7,730.00	16,236.00	7,569.74	90.03	158.98	87.17	1,787.82	2,085.39	5,670.00	5,589.74	80.26	70.642		
14,000.00	7,730.00	16,236.00	7,569.74	91.59	158.98	87.17	1,787.82	2,085.39	5,769.97	5,689.71	80.25	71.896		
14,100.00	7,730.00	16,236.00	7,569.74	93.16	158.98	87.17	1,787.82	2,085.39	5,869.93	5,789.69	80.25	73.149		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	158.98	87.17	1,787.82	2,085.39	5,969.90	5,889.66	80.24	74.400		
14,300.00	7,730.00	16,236.00	7,569.74	96.33	158.98	87.17	1,787.82	2,085.39	6,069.87	5,989.64	80.24	75.650		
14,400.00	7,730.00	16,236.00	7,569.74	97.92	158.98	87.17	1,787.82	2,085.39	6,169.84	6,089.61	80.23	76.899		
14,500.00	7,730.00	16,236.00	7,569.74	99.51	158.98	87.17	1,787.82	2,085.39	6,269.82	6,189.58	80.23	78.146		
14,600.00	7,730.00	16,236.00	7,569.74	101.11	158.98	87.17	1,787.82	2,085.39	6,369.79	6,289.56	80.23	79.393		
14,700.00	7,730.00	16,236.00	7,569.74	102.72	158.98	87.17	1,787.82	2,085.39	6,469.76	6,389.53	80.23	80.637		
14,800.00	7,730.00	16,236.00	7,569.74	104.33	158.98	87.17	1,787.82	2,085.39	6,569.74	6,489.50	80.24	81.880		
14,900.00	7,730.00	16,236.00	7,569.74	105.94	158.98	87.17	1,787.82	2,085.39	6,669.71	6,589.47	80.24	83.122		
15,000.00	7,730.00	16,236.00	7,569.74	107.56	158.98	87.17	1,787.82	2,085.39	6,769.69	6,689.44	80.25	84.363		
15,100.00	7,730.00	16,236.00	7,569.74	109.18	158.98	87.17	1,787.82	2,085.39	6,869.67	6,789.41	80.25	85.602		
15,200.00	7,730.00	16,236.00	7,569.74	110.81	158.98	87.17	1,787.82	2,085.39	6,969.64	6,889.38	80.26	86.839		
15,300.00	7,730.00	16,236.00	7,569.74	112.44	158.98	87.17	1,787.82	2,085.39	7,069.62	6,989.35	80.27	88.075		
15,400.00	7,730.00	16,236.00	7,569.74	114.08	158.98	87.17	1,787.82	2,085.39	7,169.60	7,089.32	80.28	89.309		
15,500.00	7,730.00	16,236.00	7,569.74	115.72	158.98	87.17	1,787.82	2,085.39	7,269.58	7,189.29	80.29	90.542		
15,600.00	7,730.00	16,236.00	7,569.74	117.36	158.98	87.17	1,787.82	2,085.39	7,369.56	7,289.26	80.30	91.774		
15,700.00	7,730.00	16,236.00	7,569.74	119.00	158.98	87.17	1,787.82	2,085.39	7,469.54	7,389.23	80.31	93.003		
15,800.00	7,730.00	16,236.00	7,569.74	120.65	158.98	87.17	1,787.82	2,085.39	7,569.52	7,489.19	80.33	94.231		
15,900.00	7,730.00	16,236.00	7,569.74	122.30	158.98	87.17	1,787.82	2,085.39	7,669.50	7,589.16	80.34	95.458		
16,000.00	7,730.00	16,236.00	7,569.74	123.96	158.98	87.17	1,787.82	2,085.39	7,769.48	7,689.12	80.36	96.683		
16,100.00	7,730.00	16,236.00	7,569.74	125.61	158.98	87.17	1,787.82	2,085.39	7,869.47	7,789.09	80.38	97.906		
16,200.00	7,730.00	16,236.00	7,569.74	127.27	158.98	87.17	1,787.82	2,085.39	7,969.45	7,889.05	80.40	99.128		
16,300.00	7,730.00	16,236.00	7,569.74	128.94	158.98	87.17	1,787.82	2,085.39	8,069.43	7,989.02	80.41	100.347		
16,400.00	7,730.00	16,236.00	7,569.74	130.60	158.98	87.17	1,787.82	2,085.39	8,169.42	8,088.98	80.43	101.566		
16,500.00	7,730.00	16,236.00	7,569.74	132.27	158.98	87.17	1,787.82	2,085.39	8,269.40	8,188.94	80.46	102.782		
16,600.00	7,730.00	16,236.00	7,569.74	133.94	158.98	87.17	1,787.82	2,085.39	8,369.38	8,288.91	80.48	103.997		
16,700.00	7,730.00	16,236.00	7,569.74	135.61	158.98	87.17	1,787.82	2,085.39	8,469.37	8,388.87	80.50	105.209		
16,800.00	7,730.00	16,236.00	7,569.74	137.28	158.98	87.17	1,787.82	2,085.39	8,569.35	8,488.83	80.52	106.420		
16,900.00	7,730.00	16,236.00	7,569.74	138.96	158.98	87.17	1,787.82	2,085.39	8,669.34	8,588.79	80.55	107.630		
17,000.00	7,730.00	16,236.00	7,569.74	140.64	158.98	87.17	1,787.82	2,085.39	8,769.33	8,688.75	80.57	108.837		
17,100.00	7,730.00	16,236.00	7,569.74	142.32	158.98	87.17	1,787.82	2,085.39	8,869.31	8,788.71	80.60	110.043		
17,200.00	7,730.00	16,236.00	7,569.74	144.00	158.98	87.17	1,787.82	2,085.39	8,969.30	8,888.67	80.63	111.246		
17,300.00	7,730.00	16,236.00	7,569.74	145.69	158.98	87.17	1,787.82	2,085.39	9,069.29	8,988.63	80.65	112.448		
17,400.00	7,730.00	16,236.00	7,569.74	147.37	158.98	87.17	1,787.82	2,085.39	9,169.27	9,088.59	80.68	113.648		
17,500.00	7,730.00	16,236.00	7,569.74	149.06	158.98	87.17	1,787.82	2,085.39	9,269.26	9,188.55	80.71	114.846		
17,600.00	7,730.00	16,236.00	7,569.74	150.75	158.98	87.17	1,787.82	2,085.39	9,369.25	9,288.51	80.74	116.042		
17,700.00	7,730.00	16,236.00	7,569.74	152.44	158.98	87.17	1,787.82	2,085.39	9,469.23	9,388.46	80.77	117.236		
17,800.00	7,730.00	16,236.00	7,569.74	154.13	158.98	87.17	1,787.82	2,085.39	9,569.22	9,488.42	80.80	118.428		
17,900.00	7,730.00	16,236.00	7,569.74	155.83	158.98	87.17	1,787.82	2,085.39	9,669.21	9,588.38	80.83	119.618		
18,000.00	7,730.00	16,236.00	7,569.74	157.52	158.98	87.17	1,787.82	2,085.39	9,769.20	9,688.33	80.87	120.807		
18,100.00	7,730.00	16,236.00	7,569.74	159.22	158.98	87.17	1,787.82	2,085.39	9,869.19	9,788.29	80.90	121.993		
18,200.00	7,730.00	16,236.00	7,569.74	160.92	158.98	87.17	1,787.82	2,085.39	9,969.18	9,888.24	80.93	123.177		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	39.34	1,782.14	1,460.87	8,163.60					
100.00	100.00	16,659.00	7,678.61	0.13	161.70	39.34	1,782.14	1,460.87	8,067.71	7,988.66	79.06	102.049		
200.00	200.00	16,659.00	7,678.61	0.49	161.70	39.34	1,782.14	1,460.87	7,971.93	7,892.80	79.13	100.747		
300.00	300.00	16,659.00	7,678.61	0.85	161.70	39.34	1,782.14	1,460.87	7,876.25	7,797.04	79.21	99.434		
400.00	400.00	16,659.00	7,678.61	1.21	161.70	39.34	1,782.14	1,460.87	7,780.68	7,701.38	79.31	98.109		
500.00	500.00	16,659.00	7,678.61	1.57	161.70	39.34	1,782.14	1,460.87	7,685.23	7,605.81	79.41	96.774		
600.00	600.00	16,659.00	7,678.61	1.93	161.70	39.34	1,782.14	1,460.87	7,589.89	7,510.35	79.53	95.429		
700.00	700.00	16,659.00	7,678.61	2.29	161.70	39.34	1,782.14	1,460.87	7,494.67	7,415.00	79.67	94.075		
800.00	800.00	16,659.00	7,678.61	2.64	161.70	39.34	1,782.14	1,460.87	7,399.58	7,319.77	79.81	92.714		
900.00	900.00	16,659.00	7,678.61	3.00	161.70	39.34	1,782.14	1,460.87	7,304.62	7,224.65	79.97	91.345		
1,000.00	1,000.00	16,659.00	7,678.61	3.36	161.70	39.34	1,782.14	1,460.87	7,209.79	7,129.66	80.14	89.970		
1,100.00	1,100.00	16,659.00	7,678.61	3.72	161.70	39.34	1,782.14	1,460.87	7,115.11	7,034.79	80.31	88.590		
1,200.00	1,200.00	16,659.00	7,678.61	4.08	161.70	39.34	1,782.14	1,460.87	7,020.57	6,940.07	80.51	87.206		
1,300.00	1,299.98	16,659.00	7,678.61	4.43	161.70	-8.64	1,782.14	1,460.87	6,925.63	6,844.93	80.71	85.813		
1,400.00	1,399.84	16,659.00	7,678.61	4.79	161.70	-9.71	1,782.14	1,460.87	6,829.79	6,748.89	80.91	84.417		
1,500.00	1,499.45	16,659.00	7,678.61	5.15	161.70	-11.08	1,782.14	1,460.87	6,733.13	6,652.04	81.09	83.031		
1,600.00	1,598.70	16,659.00	7,678.61	5.51	161.70	-12.86	1,782.14	1,460.87	6,635.72	6,554.46	81.26	81.659		
1,700.00	1,697.47	16,659.00	7,678.61	5.89	161.70	-15.29	1,782.14	1,460.87	6,537.67	6,456.25	81.42	80.300		
1,800.00	1,795.62	16,659.00	7,678.61	6.28	161.70	-18.78	1,782.14	1,460.87	6,439.05	6,357.50	81.55	78.958		
1,900.00	1,893.06	16,659.00	7,678.61	6.69	161.70	-24.13	1,782.14	1,460.87	6,339.97	6,258.31	81.67	77.633		
2,000.00	1,989.64	16,659.00	7,678.61	7.13	161.70	-33.14	1,782.14	1,460.87	6,240.54	6,158.78	81.76	76.326		
2,100.00	2,085.27	16,659.00	7,678.61	7.61	161.70	-49.93	1,782.14	1,460.87	6,140.85	6,059.01	81.83	75.040		
2,200.00	2,179.82	16,659.00	7,678.61	8.12	161.70	-80.87	1,782.14	1,460.87	6,041.02	5,959.13	81.89	73.774		
2,300.00	2,273.17	16,659.00	7,678.61	8.67	161.70	-116.97	1,782.14	1,460.87	5,941.16	5,859.25	81.91	72.529		
2,400.00	2,365.21	16,659.00	7,678.61	9.27	161.70	-139.40	1,782.14	1,460.87	5,841.41	5,759.49	81.92	71.307		
2,500.00	2,455.84	16,659.00	7,678.61	9.92	161.70	-151.10	1,782.14	1,460.87	5,741.88	5,659.98	81.90	70.108		
2,580.62	2,527.80	16,659.00	7,678.61	10.49	161.70	-156.70	1,782.14	1,460.87	5,661.90	5,580.03	81.87	69.159		
2,600.00	2,544.97	16,659.00	7,678.61	10.63	161.70	-156.70	1,782.14	1,460.87	5,642.71	5,560.86	81.86	68.933		
2,700.00	2,633.58	16,659.00	7,678.61	11.37	161.70	-156.70	1,782.14	1,460.87	5,543.71	5,461.90	81.82	67.759		
2,800.00	2,722.19	16,659.00	7,678.61	12.13	161.70	-156.70	1,782.14	1,460.87	5,444.75	5,362.97	81.78	66.582		
2,900.00	2,810.80	16,659.00	7,678.61	12.91	161.70	-156.70	1,782.14	1,460.87	5,345.82	5,264.08	81.74	65.402		
3,000.00	2,899.41	16,659.00	7,678.61	13.71	161.70	-156.70	1,782.14	1,460.87	5,246.94	5,165.23	81.70	64.220		
3,100.00	2,988.02	16,659.00	7,678.61	14.52	161.70	-156.70	1,782.14	1,460.87	5,148.09	5,066.42	81.67	63.036		
3,200.00	3,076.63	16,659.00	7,678.61	15.34	161.70	-156.70	1,782.14	1,460.87	5,049.30	4,967.66	81.64	61.850		
3,300.00	3,165.24	16,659.00	7,678.61	16.16	161.70	-156.70	1,782.14	1,460.87	4,950.55	4,868.94	81.61	60.662		
3,400.00	3,253.85	16,659.00	7,678.61	17.00	161.70	-156.70	1,782.14	1,460.87	4,851.85	4,770.27	81.58	59.472		
3,500.00	3,342.46	16,659.00	7,678.61	17.84	161.70	-156.70	1,782.14	1,460.87	4,753.21	4,671.65	81.56	58.281		
3,600.00	3,431.07	16,659.00	7,678.61	18.69	161.70	-156.70	1,782.14	1,460.87	4,654.62	4,573.09	81.53	57.088		
3,700.00	3,519.68	16,659.00	7,678.61	19.55	161.70	-156.70	1,782.14	1,460.87	4,556.10	4,474.59	81.51	55.893		
3,800.00	3,608.29	16,659.00	7,678.61	20.40	161.70	-156.70	1,782.14	1,460.87	4,457.64	4,376.15	81.50	54.697		
3,900.00	3,696.90	16,659.00	7,678.61	21.26	161.70	-156.70	1,782.14	1,460.87	4,359.26	4,277.77	81.48	53.499		
4,000.00	3,785.51	16,659.00	7,678.61	22.13	161.70	-156.70	1,782.14	1,460.87	4,260.95	4,179.47	81.47	52.300		
4,100.00	3,874.12	16,659.00	7,678.61	23.00	161.70	-156.70	1,782.14	1,460.87	4,162.71	4,081.25	81.46	51.100		
4,200.00	3,962.73	16,659.00	7,678.61	23.87	161.70	-156.70	1,782.14	1,460.87	4,064.57	3,983.11	81.46	49.898		
4,300.00	4,051.34	16,659.00	7,678.61	24.74	161.70	-156.70	1,782.14	1,460.87	3,966.52	3,885.06	81.46	48.695		
4,400.00	4,139.95	16,659.00	7,678.61	25.62	161.70	-156.70	1,782.14	1,460.87	3,868.56	3,787.10	81.46	47.490		
4,500.00	4,228.56	16,659.00	7,678.61	26.49	161.70	-156.70	1,782.14	1,460.87	3,770.72	3,689.25	81.47	46.284		
4,600.00	4,317.17	16,659.00	7,678.61	27.37	161.70	-156.70	1,782.14	1,460.87	3,672.99	3,591.51	81.48	45.077		
4,700.00	4,405.78	16,659.00	7,678.61	28.25	161.70	-156.70	1,782.14	1,460.87	3,575.38	3,493.88	81.50	43.868		
4,800.00	4,494.39	16,659.00	7,678.61	29.13	161.70	-156.70	1,782.14	1,460.87	3,477.92	3,396.38	81.53	42.657		
4,900.00	4,583.00	16,659.00	7,678.61	30.02	161.70	-156.70	1,782.14	1,460.87	3,380.60	3,299.03	81.57	41.444		
5,000.00	4,671.61	16,659.00	7,678.61	30.90	161.70	-156.70	1,782.14	1,460.87	3,283.44	3,201.82	81.62	40.229		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	16,659.00	7,678.61	31.79	161.70	-156.70	1,782.14	1,460.87	3,186.46	3,104.77	81.68	39.011		
5,200.00	4,848.83	16,659.00	7,678.61	32.67	161.70	-156.70	1,782.14	1,460.87	3,089.67	3,007.91	81.76	37.790		
5,300.00	4,937.44	16,659.00	7,678.61	33.56	161.70	-156.70	1,782.14	1,460.87	2,993.09	2,911.23	81.85	36.567		
5,400.00	5,026.05	16,659.00	7,678.61	34.45	161.70	-156.70	1,782.14	1,460.87	2,896.74	2,814.77	81.97	35.339		
5,500.00	5,114.66	16,659.00	7,678.61	35.34	161.70	-156.70	1,782.14	1,460.87	2,800.65	2,718.54	82.11	34.108		
5,600.00	5,203.27	16,659.00	7,678.61	36.23	161.70	-156.70	1,782.14	1,460.87	2,704.84	2,622.56	82.28	32.872		
5,700.00	5,291.88	16,659.00	7,678.61	37.12	161.70	-156.70	1,782.14	1,460.87	2,609.35	2,526.85	82.49	31.631		
5,800.00	5,380.50	16,659.00	7,678.61	38.01	161.70	-156.70	1,782.14	1,460.87	2,514.20	2,431.46	82.75	30.384		
5,900.00	5,469.11	16,659.00	7,678.61	38.90	161.70	-156.70	1,782.14	1,460.87	2,419.45	2,336.40	83.06	29.131		
6,000.00	5,557.72	16,659.00	7,678.61	39.79	161.70	-156.70	1,782.14	1,460.87	2,325.14	2,241.71	83.43	27.870		
6,100.00	5,646.33	16,659.00	7,678.61	40.68	161.70	-156.70	1,782.14	1,460.87	2,231.33	2,147.45	83.88	26.601		
6,200.00	5,734.94	16,659.00	7,678.61	41.58	161.70	-156.70	1,782.14	1,460.87	2,138.07	2,053.64	84.43	25.323		
6,300.00	5,823.55	16,659.00	7,678.61	42.47	161.70	-156.70	1,782.14	1,460.87	2,045.45	1,960.36	85.10	24.036		
6,400.00	5,912.16	16,659.00	7,678.61	43.36	161.70	-156.70	1,782.14	1,460.87	1,953.56	1,867.65	85.91	22.740		
6,500.00	6,000.77	16,659.00	7,678.61	44.26	161.70	-156.70	1,782.14	1,460.87	1,862.51	1,775.61	86.90	21.433		
6,600.00	6,089.38	16,659.00	7,678.61	45.15	161.70	-156.70	1,782.14	1,460.87	1,772.42	1,684.32	88.10	20.118		
6,700.00	6,177.99	16,659.00	7,678.61	46.05	161.70	-156.70	1,782.14	1,460.87	1,683.45	1,593.88	89.57	18.795		
6,800.00	6,266.60	16,659.00	7,678.61	46.94	161.70	-156.70	1,782.14	1,460.87	1,595.79	1,504.43	91.36	17.466		
6,900.00	6,355.21	16,659.00	7,678.61	47.84	161.70	-156.70	1,782.14	1,460.87	1,509.66	1,416.11	93.55	16.137		
7,000.00	6,443.82	16,659.00	7,678.61	48.74	161.70	-156.70	1,782.14	1,460.87	1,425.34	1,329.13	96.22	14.814		
7,100.00	6,532.43	16,659.00	7,678.61	49.63	161.70	-156.70	1,782.14	1,460.87	1,343.18	1,243.72	99.46	13.504		
7,200.00	6,621.04	16,659.00	7,678.61	50.53	161.70	-156.70	1,782.14	1,460.87	1,263.59	1,160.20	103.39	12.221		
7,300.00	6,709.65	16,659.00	7,678.61	51.42	161.70	-156.70	1,782.14	1,460.87	1,187.10	1,078.98	108.12	10.980		
7,400.00	6,798.26	16,659.00	7,678.61	52.32	161.70	-156.70	1,782.14	1,460.87	1,114.33	1,000.59	113.75	9.797		
7,500.00	6,886.87	16,659.75	7,678.62	53.22	161.71	-156.75	1,781.39	1,460.88	1,046.07	925.72	120.35	8.692		
7,600.00	6,975.48	16,629.52	7,678.26	54.12	161.18	-154.72	1,811.62	1,460.65	982.82	854.57	128.24	7.664		
7,656.30	7,025.36	16,612.50	7,678.06	54.62	160.89	-153.56	1,828.64	1,460.53	949.57	816.34	133.23	7.128		
7,700.00	7,064.54	16,601.61	7,677.94	55.00	160.70	-157.00	1,839.53	1,460.45	924.80	787.41	137.40	6.731		
7,750.00	7,110.29	16,592.88	7,677.85	55.40	160.55	-163.18	1,848.26	1,460.38	897.55	755.01	142.54	6.297		
7,800.00	7,156.67	16,588.10	7,677.80	55.75	160.46	-171.73	1,853.03	1,460.35	871.89	723.85	148.03	5.890		
7,850.00	7,203.34	16,587.39	7,677.79	56.05	160.45	178.05	1,853.74	1,460.34	848.22	694.43	153.78	5.516		
7,900.00	7,249.95	16,590.80	7,677.82	56.30	160.51	167.45	1,850.33	1,460.37	826.92	667.24	159.68	5.179		
7,950.00	7,296.14	16,598.37	7,677.90	56.50	160.64	157.62	1,842.76	1,460.42	808.30	642.70	165.60	4.881		
8,000.00	7,341.56	16,611.94	7,678.03	56.64	160.88	149.12	1,831.07	1,460.51	792.55	621.13	171.42	4.623		
8,050.00	7,385.86	16,626.56	7,678.23	56.74	161.13	141.88	1,814.57	1,460.63	779.79	602.88	176.91	4.408		
8,100.00	7,428.71	16,647.11	7,678.47	56.79	161.49	135.69	1,794.03	1,460.78	769.98	587.94	182.05	4.230		
8,150.00	7,469.77	16,659.00	7,678.61	56.80	161.70	131.07	1,782.14	1,460.87	763.11	576.10	187.01	4.081		
8,200.00	7,508.75	16,659.00	7,678.61	56.77	161.70	127.85	1,782.14	1,460.87	759.71	568.00	191.71	3.963		
8,221.61	7,524.87	16,659.00	7,678.61	56.74	161.70	126.59	1,782.14	1,460.87	759.37	565.85	193.52	3.924 CC		
8,250.00	7,545.33	16,659.00	7,678.61	56.70	161.70	125.01	1,782.14	1,460.87	759.96	564.27	195.69	3.884 ES		
8,300.00	7,579.25	16,659.00	7,678.61	56.59	161.70	122.37	1,782.14	1,460.87	763.85	565.00	198.85	3.841		
8,350.00	7,610.24	16,659.00	7,678.61	56.45	161.70	119.82	1,782.14	1,460.87	771.29	570.15	201.14	3.835 SF		
8,400.00	7,638.06	16,659.00	7,678.61	56.28	161.70	117.27	1,782.14	1,460.87	782.12	579.60	202.53	3.862		
8,450.00	7,662.52	16,659.00	7,678.61	56.09	161.70	114.66	1,782.14	1,460.87	796.14	593.08	203.05	3.921		
8,500.00	7,683.41	16,659.00	7,678.61	55.88	161.70	111.95	1,782.14	1,460.87	813.06	610.29	202.77	4.010		
8,550.00	7,700.59	16,659.00	7,678.61	55.64	161.70	109.13	1,782.14	1,460.87	832.60	630.84	201.76	4.127		
8,600.00	7,713.91	16,659.00	7,678.61	55.39	161.70	106.20	1,782.14	1,460.87	854.42	654.31	200.11	4.270		
8,650.00	7,723.29	16,659.00	7,678.61	55.14	161.70	103.17	1,782.14	1,460.87	878.19	680.28	197.92	4.437		
8,700.00	7,728.64	16,659.00	7,678.61	54.87	161.70	100.06	1,782.14	1,460.87	903.60	708.32	195.28	4.627		
8,740.83	7,730.00	16,659.00	7,678.61	54.65	161.70	97.51	1,782.14	1,460.87	925.33	732.48	192.85	4.798		
8,800.00	7,730.00	16,659.00	7,678.61	54.33	161.70	97.51	1,782.14	1,460.87	958.66	769.57	189.09	5.070		
8,900.00	7,730.00	16,659.00	7,678.61	53.82	161.70	97.51	1,782.14	1,460.87	1,020.34	837.83	182.51	5.591		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	16,659.00	7,678.61	53.33	161.70	97.51	1,782.14	1,460.87	1,087.73	911.80	175.92	6.183		
9,100.00	7,730.00	16,659.00	7,678.61	52.87	161.70	97.51	1,782.14	1,460.87	1,159.83	990.27	169.56	6.840		
9,200.00	7,730.00	16,659.00	7,678.61	52.44	161.70	97.51	1,782.14	1,460.87	1,235.83	1,072.28	163.54	7.557		
9,300.00	7,730.00	16,659.00	7,678.61	52.03	161.70	97.51	1,782.14	1,460.87	1,315.04	1,157.10	157.93	8.326		
9,400.00	7,730.00	16,659.00	7,678.61	51.65	161.70	97.51	1,782.14	1,460.87	1,396.92	1,244.16	152.76	9.145		
9,500.00	7,730.00	16,659.00	7,678.61	51.29	161.70	97.51	1,782.14	1,460.87	1,481.03	1,333.02	148.00	10.007		
9,600.00	7,730.00	16,659.00	7,678.61	50.95	161.70	97.51	1,782.14	1,460.87	1,567.00	1,423.35	143.65	10.908		
9,700.00	7,730.00	16,659.00	7,678.61	50.64	161.70	97.51	1,782.14	1,460.87	1,654.55	1,514.88	139.67	11.846		
9,800.00	7,730.00	16,659.00	7,678.61	50.35	161.70	97.51	1,782.14	1,460.87	1,743.45	1,607.41	136.04	12.816		
9,900.00	7,730.00	16,659.00	7,678.61	50.09	161.70	97.51	1,782.14	1,460.87	1,833.48	1,700.77	132.72	13.815		
10,000.00	7,730.00	16,659.00	7,678.61	49.86	161.70	97.51	1,782.14	1,460.87	1,924.51	1,794.83	129.67	14.841		
10,100.00	7,730.00	16,659.00	7,678.61	49.65	161.70	97.51	1,782.14	1,460.87	2,016.38	1,889.49	126.89	15.891		
10,200.00	7,730.00	16,659.00	7,678.61	49.48	161.70	97.51	1,782.14	1,460.87	2,108.99	1,984.66	124.33	16.963		
10,300.00	7,730.00	16,659.00	7,678.61	49.35	161.70	97.51	1,782.14	1,460.87	2,202.25	2,080.27	121.98	18.054		
10,400.00	7,730.00	16,659.00	7,678.61	49.27	161.70	97.51	1,782.14	1,460.87	2,296.07	2,176.26	119.81	19.164		
10,500.00	7,730.00	16,659.00	7,678.61	49.26	161.70	97.51	1,782.14	1,460.87	2,390.40	2,272.58	117.82	20.289		
10,600.00	7,730.00	16,659.00	7,678.61	49.32	161.70	97.51	1,782.14	1,460.87	2,485.17	2,369.20	115.97	21.430		
10,700.00	7,730.00	16,659.00	7,678.61	49.51	161.70	97.51	1,782.14	1,460.87	2,580.33	2,466.08	114.26	22.583		
10,800.00	7,730.00	16,659.00	7,678.61	49.83	161.70	97.51	1,782.14	1,460.87	2,675.85	2,563.18	112.67	23.749		
10,900.00	7,730.00	16,659.00	7,678.61	50.31	161.70	97.51	1,782.14	1,460.87	2,771.68	2,660.49	111.20	24.926		
11,000.00	7,730.00	16,659.00	7,678.61	50.96	161.70	97.51	1,782.14	1,460.87	2,867.80	2,757.98	109.82	26.113		
11,100.00	7,730.00	16,659.00	7,678.61	51.75	161.70	97.51	1,782.14	1,460.87	2,964.18	2,855.63	108.54	27.309		
11,200.00	7,730.00	16,659.00	7,678.61	52.66	161.70	97.51	1,782.14	1,460.87	3,060.79	2,953.44	107.35	28.513		
11,300.00	7,730.00	16,659.00	7,678.61	53.67	161.70	97.51	1,782.14	1,460.87	3,157.60	3,051.37	106.23	29.724		
11,400.00	7,730.00	16,659.00	7,678.61	54.75	161.70	97.51	1,782.14	1,460.87	3,254.62	3,149.43	105.18	30.942		
11,500.00	7,730.00	16,659.00	7,678.61	55.89	161.70	97.51	1,782.14	1,460.87	3,351.80	3,247.60	104.20	32.167		
11,600.00	7,730.00	16,659.00	7,678.61	57.07	161.70	97.51	1,782.14	1,460.87	3,449.15	3,345.87	103.28	33.396		
11,700.00	7,730.00	16,659.00	7,678.61	58.30	161.70	97.51	1,782.14	1,460.87	3,546.65	3,444.23	102.41	34.631		
11,800.00	7,730.00	16,659.00	7,678.61	59.55	161.70	97.51	1,782.14	1,460.87	3,644.28	3,542.68	101.60	35.870		
11,900.00	7,730.00	16,659.00	7,678.61	60.84	161.70	97.51	1,782.14	1,460.87	3,742.03	3,641.21	100.83	37.114		
12,000.00	7,730.00	16,659.00	7,678.61	62.15	161.70	97.51	1,782.14	1,460.87	3,839.90	3,739.80	100.10	38.361		
12,100.00	7,730.00	16,659.00	7,678.61	63.49	161.70	97.51	1,782.14	1,460.87	3,937.88	3,838.47	99.41	39.611		
12,200.00	7,730.00	16,659.00	7,678.61	64.85	161.70	97.51	1,782.14	1,460.87	4,035.96	3,937.20	98.77	40.864		
12,300.00	7,730.00	16,659.00	7,678.61	66.22	161.70	97.51	1,782.14	1,460.87	4,134.13	4,035.98	98.15	42.120		
12,400.00	7,730.00	16,659.00	7,678.61	67.62	161.70	97.51	1,782.14	1,460.87	4,232.39	4,134.82	97.57	43.378		
12,500.00	7,730.00	16,659.00	7,678.61	69.03	161.70	97.51	1,782.14	1,460.87	4,330.72	4,233.70	97.02	44.638		
12,600.00	7,730.00	16,659.00	7,678.61	70.45	161.70	97.51	1,782.14	1,460.87	4,429.13	4,332.64	96.49	45.900		
12,700.00	7,730.00	16,659.00	7,678.61	71.90	161.70	97.51	1,782.14	1,460.87	4,527.61	4,431.61	96.00	47.164		
12,800.00	7,730.00	16,659.00	7,678.61	73.35	161.70	97.51	1,782.14	1,460.87	4,626.16	4,530.63	95.53	48.429		
12,900.00	7,730.00	16,659.00	7,678.61	74.81	161.70	97.51	1,782.14	1,460.87	4,724.76	4,629.69	95.08	49.695		
13,000.00	7,730.00	16,659.00	7,678.61	76.29	161.70	97.51	1,782.14	1,460.87	4,823.43	4,728.78	94.65	50.962		
13,100.00	7,730.00	16,659.00	7,678.61	77.78	161.70	97.51	1,782.14	1,460.87	4,922.14	4,827.90	94.24	52.229		
13,200.00	7,730.00	16,659.00	7,678.61	79.28	161.70	97.51	1,782.14	1,460.87	5,020.91	4,927.06	93.85	53.498		
13,300.00	7,730.00	16,659.00	7,678.61	80.79	161.70	97.51	1,782.14	1,460.87	5,119.73	5,026.24	93.48	54.766		
13,400.00	7,730.00	16,659.00	7,678.61	82.31	161.70	97.51	1,782.14	1,460.87	5,218.59	5,125.46	93.13	56.036		
13,500.00	7,730.00	16,659.00	7,678.61	83.84	161.70	97.51	1,782.14	1,460.87	5,317.49	5,224.70	92.79	57.305		
13,600.00	7,730.00	16,659.00	7,678.61	85.37	161.70	97.51	1,782.14	1,460.87	5,416.44	5,323.97	92.47	58.575		
13,700.00	7,730.00	16,659.00	7,678.61	86.92	161.70	97.51	1,782.14	1,460.87	5,515.42	5,423.25	92.16	59.844		
13,800.00	7,730.00	16,659.00	7,678.61	88.47	161.70	97.51	1,782.14	1,460.87	5,614.44	5,522.57	91.87	61.113		
13,900.00	7,730.00	16,659.00	7,678.61	90.03	161.70	97.51	1,782.14	1,460.87	5,713.49	5,621.90	91.59	62.382		
14,000.00	7,730.00	16,659.00	7,678.61	91.59	161.70	97.51	1,782.14	1,460.87	5,812.57	5,721.25	91.32	63.651		
14,100.00	7,730.00	16,659.00	7,678.61	93.16	161.70	97.51	1,782.14	1,460.87	5,911.69	5,820.63	91.06	64.919		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	161.70	97.51	1,782.14	1,460.87	6,010.83	5,920.02	90.82	66.187		
14,300.00	7,730.00	16,659.00	7,678.61	96.33	161.70	97.51	1,782.14	1,460.87	6,110.01	6,019.43	90.58	67.454		
14,400.00	7,730.00	16,659.00	7,678.61	97.92	161.70	97.51	1,782.14	1,460.87	6,209.21	6,118.85	90.35	68.721		
14,500.00	7,730.00	16,659.00	7,678.61	99.51	161.70	97.51	1,782.14	1,460.87	6,308.43	6,218.29	90.14	69.987		
14,600.00	7,730.00	16,659.00	7,678.61	101.11	161.70	97.51	1,782.14	1,460.87	6,407.68	6,317.75	89.93	71.251		
14,700.00	7,730.00	16,659.00	7,678.61	102.72	161.70	97.51	1,782.14	1,460.87	6,506.95	6,417.22	89.73	72.515		
14,800.00	7,730.00	16,659.00	7,678.61	104.33	161.70	97.51	1,782.14	1,460.87	6,606.24	6,516.70	89.54	73.779		
14,900.00	7,730.00	16,659.00	7,678.61	105.94	161.70	97.51	1,782.14	1,460.87	6,705.56	6,616.20	89.36	75.041		
15,000.00	7,730.00	16,659.00	7,678.61	107.56	161.70	97.51	1,782.14	1,460.87	6,804.89	6,715.71	89.18	76.302		
15,100.00	7,730.00	16,659.00	7,678.61	109.18	161.70	97.51	1,782.14	1,460.87	6,904.25	6,815.23	89.02	77.561		
15,200.00	7,730.00	16,659.00	7,678.61	110.81	161.70	97.51	1,782.14	1,460.87	7,003.62	6,914.76	88.86	78.820		
15,300.00	7,730.00	16,659.00	7,678.61	112.44	161.70	97.51	1,782.14	1,460.87	7,103.01	7,014.31	88.70	80.078		
15,400.00	7,730.00	16,659.00	7,678.61	114.08	161.70	97.51	1,782.14	1,460.87	7,202.42	7,113.86	88.55	81.334		
15,500.00	7,730.00	16,659.00	7,678.61	115.72	161.70	97.51	1,782.14	1,460.87	7,301.84	7,213.43	88.41	82.589		
15,600.00	7,730.00	16,659.00	7,678.61	117.36	161.70	97.51	1,782.14	1,460.87	7,401.28	7,313.00	88.28	83.842		
15,700.00	7,730.00	16,659.00	7,678.61	119.00	161.70	97.51	1,782.14	1,460.87	7,500.73	7,412.59	88.15	85.094		
15,800.00	7,730.00	16,659.00	7,678.61	120.65	161.70	97.51	1,782.14	1,460.87	7,600.20	7,512.18	88.02	86.345		
15,900.00	7,730.00	16,659.00	7,678.61	122.30	161.70	97.51	1,782.14	1,460.87	7,699.68	7,611.78	87.90	87.594		
16,000.00	7,730.00	16,659.00	7,678.61	123.96	161.70	97.51	1,782.14	1,460.87	7,799.18	7,711.39	87.79	88.841		
16,100.00	7,730.00	16,659.00	7,678.61	125.61	161.70	97.51	1,782.14	1,460.87	7,898.68	7,811.01	87.68	90.087		
16,200.00	7,730.00	16,659.00	7,678.61	127.27	161.70	97.51	1,782.14	1,460.87	7,998.20	7,910.63	87.57	91.332		
16,300.00	7,730.00	16,659.00	7,678.61	128.94	161.70	97.51	1,782.14	1,460.87	8,097.74	8,010.26	87.47	92.574		
16,400.00	7,730.00	16,659.00	7,678.61	130.60	161.70	97.51	1,782.14	1,460.87	8,197.28	8,109.90	87.38	93.815		
16,500.00	7,730.00	16,659.00	7,678.61	132.27	161.70	97.51	1,782.14	1,460.87	8,296.83	8,209.55	87.28	95.055		
16,600.00	7,730.00	16,659.00	7,678.61	133.94	161.70	97.51	1,782.14	1,460.87	8,396.40	8,309.20	87.20	96.292		
16,700.00	7,730.00	16,659.00	7,678.61	135.61	161.70	97.51	1,782.14	1,460.87	8,495.97	8,408.86	87.11	97.528		
16,800.00	7,730.00	16,659.00	7,678.61	137.28	161.70	97.51	1,782.14	1,460.87	8,595.56	8,508.52	87.03	98.762		
16,900.00	7,730.00	16,659.00	7,678.61	138.96	161.70	97.51	1,782.14	1,460.87	8,695.15	8,608.20	86.96	99.994		
17,000.00	7,730.00	16,659.00	7,678.61	140.64	161.70	97.51	1,782.14	1,460.87	8,794.76	8,707.87	86.88	101.224		
17,100.00	7,730.00	16,659.00	7,678.61	142.32	161.70	97.51	1,782.14	1,460.87	8,894.37	8,807.55	86.81	102.453		
17,200.00	7,730.00	16,659.00	7,678.61	144.00	161.70	97.51	1,782.14	1,460.87	8,993.99	8,907.24	86.75	103.679		
17,300.00	7,730.00	16,659.00	7,678.61	145.69	161.70	97.51	1,782.14	1,460.87	9,093.62	9,006.93	86.69	104.903		
17,400.00	7,730.00	16,659.00	7,678.61	147.37	161.70	97.51	1,782.14	1,460.87	9,193.26	9,106.63	86.63	106.126		
17,500.00	7,730.00	16,659.00	7,678.61	149.06	161.70	97.51	1,782.14	1,460.87	9,292.90	9,206.33	86.57	107.346		
17,600.00	7,730.00	16,659.00	7,678.61	150.75	161.70	97.51	1,782.14	1,460.87	9,392.55	9,306.04	86.52	108.565		
17,700.00	7,730.00	16,659.00	7,678.61	152.44	161.70	97.51	1,782.14	1,460.87	9,492.21	9,405.75	86.46	109.781		
17,800.00	7,730.00	16,659.00	7,678.61	154.13	161.70	97.51	1,782.14	1,460.87	9,591.88	9,505.46	86.42	110.995		
17,900.00	7,730.00	16,659.00	7,678.61	155.83	161.70	97.51	1,782.14	1,460.87	9,691.55	9,605.18	86.37	112.207		
18,000.00	7,730.00	16,659.00	7,678.61	157.52	161.70	97.51	1,782.14	1,460.87	9,791.24	9,704.91	86.33	113.417		
18,100.00	7,730.00	16,659.00	7,678.61	159.22	161.70	97.51	1,782.14	1,460.87	9,890.92	9,804.63	86.29	114.625		
18,200.00	7,730.00	16,659.00	7,678.61	160.92	161.70	97.51	1,782.14	1,460.87	9,990.62	9,904.36	86.25	115.831		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	43.09	1,779.81	1,664.86	8,308.43					
100.00	100.00	16,530.00	7,789.95	0.13	159.85	43.09	1,779.81	1,664.86	8,212.88	8,135.33	77.55	105.900		
200.00	200.00	16,530.00	7,789.95	0.49	159.85	43.09	1,779.81	1,664.86	8,117.44	8,039.79	77.65	104.538		
300.00	300.00	16,530.00	7,789.95	0.85	159.85	43.09	1,779.81	1,664.86	8,022.11	7,944.35	77.76	103.163		
400.00	400.00	16,530.00	7,789.95	1.21	159.85	43.09	1,779.81	1,664.86	7,926.89	7,849.01	77.89	101.776		
500.00	500.00	16,530.00	7,789.95	1.57	159.85	43.09	1,779.81	1,664.86	7,831.80	7,753.77	78.02	100.377		
600.00	600.00	16,530.00	7,789.95	1.93	159.85	43.09	1,779.81	1,664.86	7,736.82	7,658.65	78.18	98.968		
700.00	700.00	16,530.00	7,789.95	2.29	159.85	43.09	1,779.81	1,664.86	7,641.98	7,563.64	78.34	97.548		
800.00	800.00	16,530.00	7,789.95	2.64	159.85	43.09	1,779.81	1,664.86	7,547.27	7,468.75	78.52	96.120		
900.00	900.00	16,530.00	7,789.95	3.00	159.85	43.09	1,779.81	1,664.86	7,452.70	7,373.99	78.71	94.685		
1,000.00	1,000.00	16,530.00	7,789.95	3.36	159.85	43.09	1,779.81	1,664.86	7,358.27	7,279.35	78.92	93.242		
1,100.00	1,100.00	16,530.00	7,789.95	3.72	159.85	43.09	1,779.81	1,664.86	7,263.99	7,184.85	79.13	91.795		
1,200.00	1,200.00	16,530.00	7,789.95	4.08	159.85	43.09	1,779.81	1,664.86	7,169.86	7,090.50	79.36	90.343		
1,300.00	1,299.98	16,530.00	7,789.95	4.43	159.85	-4.46	1,779.81	1,664.86	7,075.32	6,995.71	79.60	88.881		
1,400.00	1,399.84	16,530.00	7,789.95	4.79	159.85	-4.99	1,779.81	1,664.86	6,979.83	6,899.98	79.84	87.418		
1,500.00	1,499.45	16,530.00	7,789.95	5.15	159.85	-5.66	1,779.81	1,664.86	6,883.47	6,803.40	80.07	85.969		
1,600.00	1,598.70	16,530.00	7,789.95	5.51	159.85	-6.53	1,779.81	1,664.86	6,786.33	6,706.05	80.28	84.534		
1,700.00	1,697.47	16,530.00	7,789.95	5.89	159.85	-7.70	1,779.81	1,664.86	6,688.49	6,608.02	80.47	83.117		
1,800.00	1,795.62	16,530.00	7,789.95	6.28	159.85	-9.37	1,779.81	1,664.86	6,590.04	6,509.40	80.64	81.717		
1,900.00	1,893.06	16,530.00	7,789.95	6.69	159.85	-11.91	1,779.81	1,664.86	6,491.09	6,410.29	80.80	80.338		
2,000.00	1,989.64	16,530.00	7,789.95	7.13	159.85	-16.22	1,779.81	1,664.86	6,391.72	6,310.79	80.93	78.980		
2,100.00	2,085.27	16,530.00	7,789.95	7.61	159.85	-24.93	1,779.81	1,664.86	6,292.05	6,211.01	81.04	77.644		
2,200.00	2,179.82	16,530.00	7,789.95	8.12	159.85	-48.62	1,779.81	1,664.86	6,192.18	6,111.06	81.12	76.333		
2,300.00	2,273.17	16,530.00	7,789.95	8.67	159.85	-110.28	1,779.81	1,664.86	6,092.22	6,011.04	81.18	75.046		
2,400.00	2,365.21	16,530.00	7,789.95	9.27	159.85	-147.98	1,779.81	1,664.86	5,992.31	5,911.10	81.21	73.784		
2,500.00	2,455.84	16,530.00	7,789.95	9.92	159.85	-160.39	1,779.81	1,664.86	5,892.56	5,811.34	81.22	72.550		
2,580.62	2,527.80	16,530.00	7,789.95	10.49	159.85	-165.12	1,779.81	1,664.86	5,812.35	5,731.14	81.21	71.574		
2,600.00	2,544.97	16,530.00	7,789.95	10.63	159.85	-165.12	1,779.81	1,664.86	5,793.10	5,711.90	81.20	71.342		
2,700.00	2,633.58	16,530.00	7,789.95	11.37	159.85	-165.12	1,779.81	1,664.86	5,693.78	5,612.60	81.18	70.138		
2,800.00	2,722.19	16,530.00	7,789.95	12.13	159.85	-165.12	1,779.81	1,664.86	5,594.48	5,513.32	81.16	68.931		
2,900.00	2,810.80	16,530.00	7,789.95	12.91	159.85	-165.12	1,779.81	1,664.86	5,495.20	5,414.06	81.14	67.724		
3,000.00	2,899.41	16,530.00	7,789.95	13.71	159.85	-165.12	1,779.81	1,664.86	5,395.96	5,314.83	81.12	66.514		
3,100.00	2,988.02	16,530.00	7,789.95	14.52	159.85	-165.12	1,779.81	1,664.86	5,296.74	5,215.63	81.11	65.304		
3,200.00	3,076.63	16,530.00	7,789.95	15.34	159.85	-165.12	1,779.81	1,664.86	5,197.55	5,116.46	81.10	64.092		
3,300.00	3,165.24	16,530.00	7,789.95	16.16	159.85	-165.12	1,779.81	1,664.86	5,098.39	5,017.31	81.08	62.879		
3,400.00	3,253.85	16,530.00	7,789.95	17.00	159.85	-165.12	1,779.81	1,664.86	4,999.27	4,918.20	81.07	61.666		
3,500.00	3,342.46	16,530.00	7,789.95	17.84	159.85	-165.12	1,779.81	1,664.86	4,900.18	4,819.12	81.06	60.451		
3,600.00	3,431.07	16,530.00	7,789.95	18.69	159.85	-165.12	1,779.81	1,664.86	4,801.14	4,720.08	81.05	59.236		
3,700.00	3,519.68	16,530.00	7,789.95	19.55	159.85	-165.12	1,779.81	1,664.86	4,702.13	4,621.08	81.04	58.021		
3,800.00	3,608.29	16,530.00	7,789.95	20.40	159.85	-165.12	1,779.81	1,664.86	4,603.16	4,522.13	81.03	56.805		
3,900.00	3,696.90	16,530.00	7,789.95	21.26	159.85	-165.12	1,779.81	1,664.86	4,504.24	4,423.21	81.03	55.589		
4,000.00	3,785.51	16,530.00	7,789.95	22.13	159.85	-165.12	1,779.81	1,664.86	4,405.37	4,324.35	81.02	54.373		
4,100.00	3,874.12	16,530.00	7,789.95	23.00	159.85	-165.12	1,779.81	1,664.86	4,306.55	4,225.53	81.02	53.157		
4,200.00	3,962.73	16,530.00	7,789.95	23.87	159.85	-165.12	1,779.81	1,664.86	4,207.78	4,126.77	81.01	51.941		
4,300.00	4,051.34	16,530.00	7,789.95	24.74	159.85	-165.12	1,779.81	1,664.86	4,109.08	4,028.07	81.01	50.725		
4,400.00	4,139.95	16,530.00	7,789.95	25.62	159.85	-165.12	1,779.81	1,664.86	4,010.44	3,929.44	81.00	49.510		
4,500.00	4,228.56	16,530.00	7,789.95	26.49	159.85	-165.12	1,779.81	1,664.86	3,911.87	3,830.87	81.00	48.294		
4,600.00	4,317.17	16,530.00	7,789.95	27.37	159.85	-165.12	1,779.81	1,664.86	3,813.37	3,732.37	81.00	47.079		
4,700.00	4,405.78	16,530.00	7,789.95	28.25	159.85	-165.12	1,779.81	1,664.86	3,714.95	3,633.96	81.00	45.864		
4,800.00	4,494.39	16,530.00	7,789.95	29.13	159.85	-165.12	1,779.81	1,664.86	3,616.63	3,535.62	81.00	44.649		
4,900.00	4,583.00	16,530.00	7,789.95	30.02	159.85	-165.12	1,779.81	1,664.86	3,518.39	3,437.39	81.00	43.435		
5,000.00	4,671.61	16,530.00	7,789.95	30.90	159.85	-165.12	1,779.81	1,664.86	3,420.26	3,339.25	81.01	42.221		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	16,530.00	7,789.95	31.79	159.85	-165.12	1,779.81	1,664.86	3,322.24	3,241.22	81.02	41.007		
5,200.00	4,848.83	16,530.00	7,789.95	32.67	159.85	-165.12	1,779.81	1,664.86	3,224.34	3,143.31	81.03	39.793		
5,300.00	4,937.44	16,530.00	7,789.95	33.56	159.85	-165.12	1,779.81	1,664.86	3,126.57	3,045.52	81.04	38.579		
5,400.00	5,026.05	16,530.00	7,789.95	34.45	159.85	-165.12	1,779.81	1,664.86	3,028.95	2,947.88	81.06	37.365		
5,500.00	5,114.66	16,530.00	7,789.95	35.34	159.85	-165.12	1,779.81	1,664.86	2,931.49	2,850.39	81.09	36.150		
5,600.00	5,203.27	16,530.00	7,789.95	36.23	159.85	-165.12	1,779.81	1,664.86	2,834.20	2,753.07	81.13	34.934		
5,700.00	5,291.88	16,530.00	7,789.95	37.12	159.85	-165.12	1,779.81	1,664.86	2,737.11	2,655.94	81.18	33.718		
5,800.00	5,380.50	16,530.00	7,789.95	38.01	159.85	-165.12	1,779.81	1,664.86	2,640.24	2,559.01	81.24	32.500		
5,900.00	5,469.11	16,530.00	7,789.95	38.90	159.85	-165.12	1,779.81	1,664.86	2,543.61	2,462.30	81.31	31.281		
6,000.00	5,557.72	16,530.00	7,789.95	39.79	159.85	-165.12	1,779.81	1,664.86	2,447.26	2,365.84	81.41	30.059		
6,100.00	5,646.33	16,530.00	7,789.95	40.68	159.85	-165.12	1,779.81	1,664.86	2,351.20	2,269.66	81.54	28.835		
6,200.00	5,734.94	16,530.00	7,789.95	41.58	159.85	-165.12	1,779.81	1,664.86	2,255.49	2,173.79	81.70	27.607		
6,300.00	5,823.55	16,530.00	7,789.95	42.47	159.85	-165.12	1,779.81	1,664.86	2,160.17	2,078.26	81.91	26.374		
6,400.00	5,912.16	16,530.00	7,789.95	43.36	159.85	-165.12	1,779.81	1,664.86	2,065.29	1,983.13	82.16	25.136		
6,500.00	6,000.77	16,530.00	7,789.95	44.26	159.85	-165.12	1,779.81	1,664.86	1,970.92	1,888.43	82.49	23.893		
6,600.00	6,089.38	16,530.00	7,789.95	45.15	159.85	-165.12	1,779.81	1,664.86	1,877.13	1,794.22	82.90	22.642		
6,700.00	6,177.99	16,530.00	7,789.95	46.05	159.85	-165.12	1,779.81	1,664.86	1,784.01	1,700.58	83.43	21.383		
6,800.00	6,266.60	16,530.00	7,789.95	46.94	159.85	-165.12	1,779.81	1,664.86	1,691.68	1,607.58	84.10	20.115		
6,900.00	6,355.21	16,530.00	7,789.95	47.84	159.85	-165.12	1,779.81	1,664.86	1,600.27	1,515.32	84.95	18.838		
7,000.00	6,443.82	16,530.00	7,789.95	48.74	159.85	-165.12	1,779.81	1,664.86	1,509.95	1,423.92	86.03	17.551		
7,100.00	6,532.43	16,530.00	7,789.95	49.63	159.85	-165.12	1,779.81	1,664.86	1,420.93	1,333.52	87.42	16.255		
7,200.00	6,621.04	16,530.00	7,789.95	50.53	159.85	-165.12	1,779.81	1,664.86	1,333.47	1,244.29	89.18	14.952		
7,300.00	6,709.65	16,530.00	7,789.95	51.42	159.85	-165.12	1,779.81	1,664.86	1,247.89	1,156.45	91.44	13.647		
7,400.00	6,798.26	16,530.00	7,789.95	52.32	159.85	-165.12	1,779.81	1,664.86	1,164.61	1,070.29	94.32	12.348		
7,500.00	6,886.87	16,530.00	7,789.95	53.22	159.85	-165.12	1,779.81	1,664.86	1,084.16	986.19	97.97	11.066		
7,600.00	6,975.48	16,530.00	7,789.95	54.12	159.85	-165.12	1,779.81	1,664.86	1,007.22	904.65	102.57	9.819		
7,656.30	7,025.36	16,529.04	7,789.99	54.62	159.83	-165.04	1,780.77	1,664.82	965.77	860.12	105.65	9.141		
7,700.00	7,064.54	16,516.20	7,790.40	55.00	159.61	-166.92	1,793.59	1,664.31	934.09	825.65	108.44	8.614		
7,750.00	7,110.29	16,505.45	7,790.75	55.40	159.42	-171.03	1,804.33	1,663.87	897.96	785.85	112.10	8.010		
7,800.00	7,156.67	16,498.99	7,790.97	55.75	159.31	-177.36	1,810.78	1,663.61	862.37	746.08	116.30	7.415		
7,850.00	7,203.34	16,496.87	7,791.03	56.05	159.27	174.65	1,812.90	1,663.52	827.81	706.78	121.03	6.840		
7,900.00	7,249.95	16,499.10	7,790.96	56.30	159.31	166.16	1,810.67	1,663.62	794.71	668.43	126.28	6.293		
7,950.00	7,296.14	16,505.67	7,790.75	56.50	159.43	158.27	1,804.10	1,663.88	763.50	631.49	132.00	5.784		
8,000.00	7,341.56	16,516.53	7,790.39	56.64	159.62	151.52	1,793.26	1,664.32	734.54	596.42	138.12	5.318		
8,050.00	7,385.86	16,531.59	7,789.90	56.74	159.88	145.89	1,778.22	1,664.93	708.16	563.65	144.52	4.900		
8,100.00	7,428.71	16,530.00	7,789.95	56.79	159.85	142.83	1,779.81	1,664.86	684.91	533.26	151.65	4.516		
8,150.00	7,469.77	16,530.00	7,789.95	56.80	159.85	140.37	1,779.81	1,664.86	665.43	506.61	158.83	4.190		
8,200.00	7,508.75	16,530.00	7,789.95	56.77	159.85	138.36	1,779.81	1,664.86	650.22	484.41	165.81	3.922		
8,250.00	7,545.33	16,530.00	7,789.95	56.70	159.85	136.58	1,779.81	1,664.86	639.70	467.42	172.27	3.713		
8,300.00	7,579.25	16,530.00	7,789.95	56.59	159.85	134.86	1,779.81	1,664.86	634.18	456.28	177.90	3.565		
8,328.27	7,597.14	16,530.00	7,789.95	56.51	159.85	133.88	1,779.81	1,664.86	633.34	452.74	180.60	3.507 CC		
8,350.00	7,610.24	16,530.00	7,789.95	56.45	159.85	133.10	1,779.81	1,664.86	633.84	451.42	182.42	3.475 ES		
8,400.00	7,638.06	16,530.00	7,789.95	56.28	159.85	131.19	1,779.81	1,664.86	638.68	453.05	185.64	3.441 SF		
8,450.00	7,662.52	16,530.00	7,789.95	56.09	159.85	129.07	1,779.81	1,664.86	648.57	461.10	187.47	3.460		
8,500.00	7,683.41	16,530.00	7,789.95	55.88	159.85	126.68	1,779.81	1,664.86	663.19	475.23	187.95	3.528		
8,550.00	7,700.59	16,530.00	7,789.95	55.64	159.85	123.99	1,779.81	1,664.86	682.14	494.93	187.20	3.644		
8,600.00	7,713.91	16,530.00	7,789.95	55.39	159.85	120.96	1,779.81	1,664.86	704.92	519.52	185.40	3.802		
8,650.00	7,723.29	16,530.00	7,789.95	55.14	159.85	117.57	1,779.81	1,664.86	731.03	548.29	182.74	4.000		
8,700.00	7,728.64	16,530.00	7,789.95	54.87	159.85	113.85	1,779.81	1,664.86	759.92	580.50	179.42	4.235		
8,740.83	7,730.00	16,530.00	7,789.95	54.65	159.85	110.58	1,779.81	1,664.86	785.22	608.87	176.35	4.453		
8,800.00	7,730.00	16,530.00	7,789.95	54.33	159.85	110.58	1,779.81	1,664.86	824.13	652.41	171.72	4.799		
8,900.00	7,730.00	16,530.00	7,789.95	53.82	159.85	110.58	1,779.81	1,664.86	894.94	730.87	164.07	5.455		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	16,530.00	7,789.95	53.33	159.85	110.58	1,779.81	1,664.86	970.90	813.99	156.91	6.188		
9,100.00	7,730.00	16,530.00	7,789.95	52.87	159.85	110.58	1,779.81	1,664.86	1,050.89	900.52	150.37	6.989		
9,200.00	7,730.00	16,530.00	7,789.95	52.44	159.85	110.58	1,779.81	1,664.86	1,134.06	989.59	144.47	7.850		
9,300.00	7,730.00	16,530.00	7,789.95	52.03	159.85	110.58	1,779.81	1,664.86	1,219.77	1,080.57	139.20	8.763		
9,400.00	7,730.00	16,530.00	7,789.95	51.65	159.85	110.58	1,779.81	1,664.86	1,307.50	1,173.01	134.49	9.722		
9,500.00	7,730.00	16,530.00	7,789.95	51.29	159.85	110.58	1,779.81	1,664.86	1,396.89	1,266.59	130.30	10.720		
9,600.00	7,730.00	16,530.00	7,789.95	50.95	159.85	110.58	1,779.81	1,664.86	1,487.62	1,361.06	126.56	11.754		
9,700.00	7,730.00	16,530.00	7,789.95	50.64	159.85	110.58	1,779.81	1,664.86	1,579.48	1,456.26	123.21	12.819		
9,800.00	7,730.00	16,530.00	7,789.95	50.35	159.85	110.58	1,779.81	1,664.86	1,672.27	1,552.05	120.22	13.911		
9,900.00	7,730.00	16,530.00	7,789.95	50.09	159.85	110.58	1,779.81	1,664.86	1,765.85	1,648.33	117.52	15.026		
10,000.00	7,730.00	16,530.00	7,789.95	49.86	159.85	110.58	1,779.81	1,664.86	1,860.09	1,745.00	115.09	16.162		
10,100.00	7,730.00	16,530.00	7,789.95	49.65	159.85	110.58	1,779.81	1,664.86	1,954.91	1,842.02	112.89	17.317		
10,200.00	7,730.00	16,530.00	7,789.95	49.48	159.85	110.58	1,779.81	1,664.86	2,050.22	1,939.32	110.90	18.487		
10,300.00	7,730.00	16,530.00	7,789.95	49.35	159.85	110.58	1,779.81	1,664.86	2,145.96	2,036.87	109.09	19.672		
10,400.00	7,730.00	16,530.00	7,789.95	49.27	159.85	110.58	1,779.81	1,664.86	2,242.07	2,134.63	107.43	20.869		
10,500.00	7,730.00	16,530.00	7,789.95	49.26	159.85	110.58	1,779.81	1,664.86	2,338.50	2,232.58	105.92	22.078		
10,600.00	7,730.00	16,530.00	7,789.95	49.32	159.85	110.58	1,779.81	1,664.86	2,435.22	2,330.69	104.53	23.296		
10,700.00	7,730.00	16,530.00	7,789.95	49.51	159.85	110.58	1,779.81	1,664.86	2,532.20	2,428.94	103.26	24.523		
10,800.00	7,730.00	16,530.00	7,789.95	49.83	159.85	110.58	1,779.81	1,664.86	2,629.41	2,527.32	102.08	25.757		
10,900.00	7,730.00	16,530.00	7,789.95	50.31	159.85	110.58	1,779.81	1,664.86	2,726.81	2,625.81	101.00	26.999		
11,000.00	7,730.00	16,530.00	7,789.95	50.96	159.85	110.58	1,779.81	1,664.86	2,824.40	2,724.41	99.99	28.246		
11,100.00	7,730.00	16,530.00	7,789.95	51.75	159.85	110.58	1,779.81	1,664.86	2,922.15	2,823.09	99.06	29.498		
11,200.00	7,730.00	16,530.00	7,789.95	52.66	159.85	110.58	1,779.81	1,664.86	3,020.05	2,921.85	98.20	30.755		
11,300.00	7,730.00	16,530.00	7,789.95	53.67	159.85	110.58	1,779.81	1,664.86	3,118.08	3,020.69	97.39	32.016		
11,400.00	7,730.00	16,530.00	7,789.95	54.75	159.85	110.58	1,779.81	1,664.86	3,216.23	3,119.59	96.64	33.281		
11,500.00	7,730.00	16,530.00	7,789.95	55.89	159.85	110.58	1,779.81	1,664.86	3,314.50	3,218.56	95.94	34.548		
11,600.00	7,730.00	16,530.00	7,789.95	57.07	159.85	110.58	1,779.81	1,664.86	3,412.86	3,317.58	95.28	35.819		
11,700.00	7,730.00	16,530.00	7,789.95	58.30	159.85	110.58	1,779.81	1,664.86	3,511.32	3,416.65	94.67	37.091		
11,800.00	7,730.00	16,530.00	7,789.95	59.55	159.85	110.58	1,779.81	1,664.86	3,609.86	3,515.77	94.09	38.366		
11,900.00	7,730.00	16,530.00	7,789.95	60.84	159.85	110.58	1,779.81	1,664.86	3,708.48	3,614.93	93.55	39.643		
12,000.00	7,730.00	16,530.00	7,789.95	62.15	159.85	110.58	1,779.81	1,664.86	3,807.17	3,714.13	93.04	40.920		
12,100.00	7,730.00	16,530.00	7,789.95	63.49	159.85	110.58	1,779.81	1,664.86	3,905.93	3,813.37	92.56	42.200		
12,200.00	7,730.00	16,530.00	7,789.95	64.85	159.85	110.58	1,779.81	1,664.86	4,004.75	3,912.64	92.11	43.480		
12,300.00	7,730.00	16,530.00	7,789.95	66.22	159.85	110.58	1,779.81	1,664.86	4,103.62	4,011.94	91.68	44.761		
12,400.00	7,730.00	16,530.00	7,789.95	67.62	159.85	110.58	1,779.81	1,664.86	4,202.55	4,111.28	91.28	46.042		
12,500.00	7,730.00	16,530.00	7,789.95	69.03	159.85	110.58	1,779.81	1,664.86	4,301.53	4,210.64	90.90	47.324		
12,600.00	7,730.00	16,530.00	7,789.95	70.45	159.85	110.58	1,779.81	1,664.86	4,400.56	4,310.02	90.53	48.606		
12,700.00	7,730.00	16,530.00	7,789.95	71.90	159.85	110.58	1,779.81	1,664.86	4,499.63	4,409.43	90.19	49.889		
12,800.00	7,730.00	16,530.00	7,789.95	73.35	159.85	110.58	1,779.81	1,664.86	4,598.74	4,508.87	89.87	51.171		
12,900.00	7,730.00	16,530.00	7,789.95	74.81	159.85	110.58	1,779.81	1,664.86	4,697.88	4,608.32	89.56	52.454		
13,000.00	7,730.00	16,530.00	7,789.95	76.29	159.85	110.58	1,779.81	1,664.86	4,797.06	4,707.79	89.27	53.736		
13,100.00	7,730.00	16,530.00	7,789.95	77.78	159.85	110.58	1,779.81	1,664.86	4,896.28	4,807.29	88.99	55.018		
13,200.00	7,730.00	16,530.00	7,789.95	79.28	159.85	110.58	1,779.81	1,664.86	4,995.53	4,906.80	88.73	56.300		
13,300.00	7,730.00	16,530.00	7,789.95	80.79	159.85	110.58	1,779.81	1,664.86	5,094.80	5,006.32	88.48	57.581		
13,400.00	7,730.00	16,530.00	7,789.95	82.31	159.85	110.58	1,779.81	1,664.86	5,194.11	5,105.86	88.24	58.861		
13,500.00	7,730.00	16,530.00	7,789.95	83.84	159.85	110.58	1,779.81	1,664.86	5,293.44	5,205.42	88.02	60.141		
13,600.00	7,730.00	16,530.00	7,789.95	85.37	159.85	110.58	1,779.81	1,664.86	5,392.79	5,304.99	87.80	61.421		
13,700.00	7,730.00	16,530.00	7,789.95	86.92	159.85	110.58	1,779.81	1,664.86	5,492.17	5,404.57	87.60	62.699		
13,800.00	7,730.00	16,530.00	7,789.95	88.47	159.85	110.58	1,779.81	1,664.86	5,591.57	5,504.17	87.40	63.977		
13,900.00	7,730.00	16,530.00	7,789.95	90.03	159.85	110.58	1,779.81	1,664.86	5,690.99	5,603.78	87.21	65.253		
14,000.00	7,730.00	16,530.00	7,789.95	91.59	159.85	110.58	1,779.81	1,664.86	5,790.43	5,703.40	87.04	66.529		
14,100.00	7,730.00	16,530.00	7,789.95	93.16	159.85	110.58	1,779.81	1,664.86	5,889.89	5,803.03	86.87	67.804		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	159.85	110.58	1,779.81	1,664.86	5,989.37	5,902.67	86.70	69.078		
14,300.00	7,730.00	16,530.00	7,789.95	96.33	159.85	110.58	1,779.81	1,664.86	6,088.87	6,002.32	86.55	70.350		
14,400.00	7,730.00	16,530.00	7,789.95	97.92	159.85	110.58	1,779.81	1,664.86	6,188.38	6,101.98	86.40	71.622		
14,500.00	7,730.00	16,530.00	7,789.95	99.51	159.85	110.58	1,779.81	1,664.86	6,287.91	6,201.64	86.26	72.892		
14,600.00	7,730.00	16,530.00	7,789.95	101.11	159.85	110.58	1,779.81	1,664.86	6,387.45	6,301.32	86.13	74.161		
14,700.00	7,730.00	16,530.00	7,789.95	102.72	159.85	110.58	1,779.81	1,664.86	6,487.00	6,401.00	86.00	75.429		
14,800.00	7,730.00	16,530.00	7,789.95	104.33	159.85	110.58	1,779.81	1,664.86	6,586.57	6,500.69	85.88	76.695		
14,900.00	7,730.00	16,530.00	7,789.95	105.94	159.85	110.58	1,779.81	1,664.86	6,686.16	6,600.39	85.76	77.960		
15,000.00	7,730.00	16,530.00	7,789.95	107.56	159.85	110.58	1,779.81	1,664.86	6,785.75	6,700.10	85.65	79.224		
15,100.00	7,730.00	16,530.00	7,789.95	109.18	159.85	110.58	1,779.81	1,664.86	6,885.36	6,799.81	85.55	80.486		
15,200.00	7,730.00	16,530.00	7,789.95	110.81	159.85	110.58	1,779.81	1,664.86	6,984.97	6,899.53	85.45	81.747		
15,300.00	7,730.00	16,530.00	7,789.95	112.44	159.85	110.58	1,779.81	1,664.86	7,084.60	6,999.25	85.35	83.006		
15,400.00	7,730.00	16,530.00	7,789.95	114.08	159.85	110.58	1,779.81	1,664.86	7,184.24	7,098.98	85.26	84.264		
15,500.00	7,730.00	16,530.00	7,789.95	115.72	159.85	110.58	1,779.81	1,664.86	7,283.89	7,198.72	85.17	85.520		
15,600.00	7,730.00	16,530.00	7,789.95	117.36	159.85	110.58	1,779.81	1,664.86	7,383.55	7,298.46	85.09	86.774		
15,700.00	7,730.00	16,530.00	7,789.95	119.00	159.85	110.58	1,779.81	1,664.86	7,483.22	7,398.21	85.01	88.027		
15,800.00	7,730.00	16,530.00	7,789.95	120.65	159.85	110.58	1,779.81	1,664.86	7,582.89	7,497.96	84.94	89.278		
15,900.00	7,730.00	16,530.00	7,789.95	122.30	159.85	110.58	1,779.81	1,664.86	7,682.58	7,597.71	84.86	90.528		
16,000.00	7,730.00	16,530.00	7,789.95	123.96	159.85	110.58	1,779.81	1,664.86	7,782.27	7,697.47	84.80	91.776		
16,100.00	7,730.00	16,530.00	7,789.95	125.61	159.85	110.58	1,779.81	1,664.86	7,881.97	7,797.24	84.73	93.022		
16,200.00	7,730.00	16,530.00	7,789.95	127.27	159.85	110.58	1,779.81	1,664.86	7,981.68	7,897.01	84.67	94.266		
16,300.00	7,730.00	16,530.00	7,789.95	128.94	159.85	110.58	1,779.81	1,664.86	8,081.39	7,996.78	84.61	95.508		
16,400.00	7,730.00	16,530.00	7,789.95	130.60	159.85	110.58	1,779.81	1,664.86	8,181.11	8,096.55	84.56	96.749		
16,500.00	7,730.00	16,530.00	7,789.95	132.27	159.85	110.58	1,779.81	1,664.86	8,280.84	8,196.33	84.51	97.988		
16,600.00	7,730.00	16,530.00	7,789.95	133.94	159.85	110.58	1,779.81	1,664.86	8,380.58	8,296.12	84.46	99.225		
16,700.00	7,730.00	16,530.00	7,789.95	135.61	159.85	110.58	1,779.81	1,664.86	8,480.32	8,395.90	84.42	100.460		
16,800.00	7,730.00	16,530.00	7,789.95	137.28	159.85	110.58	1,779.81	1,664.86	8,580.07	8,495.69	84.37	101.693		
16,900.00	7,730.00	16,530.00	7,789.95	138.96	159.85	110.58	1,779.81	1,664.86	8,679.82	8,595.49	84.33	102.924		
17,000.00	7,730.00	16,530.00	7,789.95	140.64	159.85	110.58	1,779.81	1,664.86	8,779.58	8,695.28	84.29	104.153		
17,100.00	7,730.00	16,530.00	7,789.95	142.32	159.85	110.58	1,779.81	1,664.86	8,879.34	8,795.08	84.26	105.381		
17,200.00	7,730.00	16,530.00	7,789.95	144.00	159.85	110.58	1,779.81	1,664.86	8,979.11	8,894.89	84.23	106.606		
17,300.00	7,730.00	16,530.00	7,789.95	145.69	159.85	110.58	1,779.81	1,664.86	9,078.89	8,994.69	84.20	107.829		
17,400.00	7,730.00	16,530.00	7,789.95	147.37	159.85	110.58	1,779.81	1,664.86	9,178.67	9,094.50	84.17	109.050		
17,500.00	7,730.00	16,530.00	7,789.95	149.06	159.85	110.58	1,779.81	1,664.86	9,278.45	9,194.31	84.14	110.269		
17,600.00	7,730.00	16,530.00	7,789.95	150.75	159.85	110.58	1,779.81	1,664.86	9,378.24	9,294.12	84.12	111.486		
17,700.00	7,730.00	16,530.00	7,789.95	152.44	159.85	110.58	1,779.81	1,664.86	9,478.03	9,393.93	84.10	112.701		
17,800.00	7,730.00	16,530.00	7,789.95	154.13	159.85	110.58	1,779.81	1,664.86	9,577.83	9,493.75	84.08	113.914		
17,900.00	7,730.00	16,530.00	7,789.95	155.83	159.85	110.58	1,779.81	1,664.86	9,677.63	9,593.57	84.06	115.124		
18,000.00	7,730.00	16,530.00	7,789.95	157.52	159.85	110.58	1,779.81	1,664.86	9,777.44	9,693.39	84.05	116.332		
18,100.00	7,730.00	16,530.00	7,789.95	159.22	159.85	110.58	1,779.81	1,664.86	9,877.25	9,793.21	84.03	117.539		
18,200.00	7,730.00	16,530.00	7,789.95	160.92	159.85	110.58	1,779.81	1,664.86	9,977.06	9,893.04	84.02	118.743		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-53.43	786.89	-1,060.90	1,320.92					
100.00	100.00	83.82	83.82	0.13	0.13	-53.44	786.92	-1,061.04	1,321.01	1,320.74	0.27	4,962.326		
200.00	200.00	179.06	179.06	0.49	0.28	-53.45	787.02	-1,061.55	1,321.50	1,320.73	0.77	1,707.115 ES		
300.00	300.00	276.23	276.23	0.85	0.62	-53.46	787.25	-1,062.33	1,322.29	1,320.82	1.47	898.952		
400.00	400.00	374.52	374.51	1.21	0.97	-53.47	787.68	-1,063.22	1,323.28	1,321.10	2.18	606.586		
500.00	500.00	480.33	480.31	1.57	1.35	-53.47	788.06	-1,064.00	1,324.08	1,321.16	2.92	453.593		
600.00	600.00	561.20	561.18	1.93	1.64	-53.48	788.37	-1,064.66	1,325.05	1,321.48	3.57	371.401		
700.00	700.00	615.78	615.73	2.29	1.84	-53.48	789.51	-1,066.14	1,328.61	1,324.49	4.12	322.292		
800.00	800.00	666.12	665.92	2.64	2.02	-53.44	792.43	-1,068.65	1,335.99	1,331.33	4.66	286.897		
900.00	900.00	727.59	727.00	3.00	2.25	-53.34	798.16	-1,072.47	1,346.54	1,341.31	5.23	257.636		
1,000.00	1,000.00	802.02	800.67	3.36	2.53	-53.17	807.27	-1,077.75	1,359.53	1,353.69	5.84	232.613		
1,100.00	1,100.00	885.09	882.73	3.72	2.86	-52.96	818.37	-1,084.38	1,373.95	1,367.46	6.49	211.561		
1,200.00	1,200.00	972.14	968.57	4.08	3.21	-52.73	830.79	-1,091.74	1,389.34	1,382.18	7.16	193.950		
1,300.00	1,299.98	1,081.51	1,076.34	4.43	3.67	-99.31	847.13	-1,100.84	1,405.38	1,397.45	7.93	177.310		
1,400.00	1,399.84	1,185.98	1,179.33	4.79	4.12	-98.87	863.09	-1,107.96	1,420.97	1,412.30	8.67	163.849		
1,500.00	1,499.45	1,289.36	1,281.34	5.15	4.56	-98.62	878.19	-1,115.22	1,436.85	1,427.43	9.42	152.528		
1,600.00	1,598.70	1,402.17	1,392.73	5.51	5.04	-98.55	894.08	-1,123.34	1,453.16	1,442.94	10.22	142.245		
1,700.00	1,697.47	1,526.02	1,515.41	5.89	5.55	-98.68	909.79	-1,129.88	1,467.43	1,456.36	11.07	132.573		
1,800.00	1,795.62	1,623.28	1,611.77	6.28	5.96	-98.84	922.07	-1,134.74	1,482.18	1,470.35	11.83	125.329		
1,900.00	1,893.06	1,715.00	1,702.70	6.69	6.34	-99.12	932.77	-1,140.19	1,497.77	1,485.19	12.58	119.068		
2,000.00	1,989.64	1,807.15	1,794.09	7.13	6.72	-99.56	942.30	-1,146.97	1,514.50	1,501.15	13.36	113.397		
2,100.00	2,085.27	1,916.51	1,902.60	7.61	7.17	-100.23	953.82	-1,154.36	1,531.77	1,517.53	14.24	107.582		
2,200.00	2,179.82	2,008.25	1,993.57	8.12	7.54	-100.78	964.28	-1,159.86	1,549.93	1,534.84	15.08	102.760		
2,300.00	2,273.17	2,119.27	2,103.71	8.67	8.00	-101.60	977.10	-1,165.33	1,568.41	1,552.36	16.05	97.705		
2,400.00	2,365.21	2,207.56	2,191.30	9.27	8.36	-102.23	987.55	-1,169.27	1,587.94	1,570.98	16.97	93.595		
2,500.00	2,455.84	2,295.15	2,278.15	9.92	8.72	-102.90	998.09	-1,173.53	1,609.25	1,591.33	17.92	89.802		
2,580.62	2,527.80	2,369.20	2,351.61	10.49	9.03	-103.55	1,006.47	-1,177.41	1,627.52	1,608.78	18.74	86.869		
2,600.00	2,544.97	2,386.20	2,368.49	10.63	9.10	-103.78	1,008.34	-1,178.33	1,632.05	1,613.12	18.93	86.210		
2,700.00	2,633.58	2,477.56	2,459.15	11.37	9.47	-105.05	1,018.47	-1,183.24	1,655.96	1,635.99	19.97	82.930		
2,800.00	2,722.19	2,574.46	2,555.28	12.13	9.87	-106.33	1,029.68	-1,187.89	1,680.43	1,659.39	21.05	79.849		
2,900.00	2,810.80	2,672.79	2,652.91	12.91	10.26	-107.61	1,040.47	-1,192.38	1,705.25	1,683.11	22.14	77.036		
3,000.00	2,899.41	2,766.43	2,745.91	13.71	10.64	-108.79	1,050.74	-1,196.29	1,730.50	1,707.29	23.21	74.559		
3,100.00	2,988.02	2,858.42	2,837.22	14.52	11.02	-109.90	1,061.36	-1,199.74	1,756.31	1,732.03	24.28	72.332		
3,200.00	3,076.63	2,961.43	2,939.56	15.34	11.43	-111.14	1,072.37	-1,203.52	1,782.43	1,757.02	25.40	70.167		
3,300.00	3,165.24	3,024.49	3,002.23	16.16	11.68	-111.89	1,078.84	-1,206.34	1,809.69	1,783.36	26.32	68.749		
3,400.00	3,253.85	3,085.01	3,062.30	17.00	11.93	-112.59	1,085.38	-1,209.76	1,838.82	1,811.60	27.22	67.551		
3,500.00	3,342.46	3,152.61	3,129.24	17.84	12.21	-113.35	1,093.55	-1,214.43	1,869.96	1,841.81	28.15	66.435		
3,600.00	3,431.07	3,248.71	3,224.36	18.69	12.62	-114.39	1,105.37	-1,221.34	1,902.01	1,872.78	29.23	65.075		
3,700.00	3,519.68	3,360.04	3,334.77	19.55	13.08	-115.59	1,117.57	-1,228.70	1,933.73	1,903.34	30.38	63.648		
3,800.00	3,608.29	3,489.03	3,462.92	20.40	13.60	-116.95	1,130.52	-1,235.68	1,964.78	1,933.16	31.62	62.145		
3,900.00	3,696.90	3,563.49	3,536.88	21.26	13.90	-117.70	1,138.39	-1,239.10	1,995.71	1,963.15	32.56	61.296		
4,000.00	3,785.51	3,633.93	3,606.76	22.13	14.19	-118.37	1,146.50	-1,242.70	2,027.81	1,994.33	33.47	60.578		
4,100.00	3,874.12	3,712.73	3,684.85	23.00	14.52	-119.10	1,155.99	-1,247.32	2,061.10	2,026.67	34.43	59.864		
4,200.00	3,962.73	3,820.10	3,791.36	23.87	14.96	-120.09	1,167.98	-1,253.77	2,094.80	2,059.26	35.54	58.942		
4,300.00	4,051.34	3,913.18	3,883.84	24.74	15.34	-120.94	1,177.24	-1,258.82	2,128.15	2,091.60	36.55	58.221		
4,400.00	4,139.95	3,992.32	3,962.43	25.62	15.66	-121.65	1,185.38	-1,263.25	2,162.12	2,124.64	37.48	57.686		
4,500.00	4,228.56	4,126.70	4,096.02	26.49	16.19	-122.83	1,198.05	-1,270.07	2,195.95	2,157.24	38.71	56.729		
4,600.00	4,317.17	4,214.57	4,183.57	27.37	16.53	-123.61	1,204.67	-1,273.75	2,229.05	2,189.40	39.66	56.210		
4,700.00	4,405.78	4,285.87	4,254.53	28.25	16.81	-124.21	1,210.81	-1,277.00	2,263.05	2,222.55	40.51	55.865		
4,800.00	4,494.39	4,359.23	4,327.46	29.13	17.10	-124.81	1,217.76	-1,280.81	2,298.09	2,256.72	41.37	55.548		
4,900.00	4,583.00	4,441.31	4,409.02	30.02	17.43	-125.45	1,225.73	-1,285.49	2,333.94	2,291.66	42.28	55.203		
5,000.00	4,671.61	4,522.69	4,489.84	30.90	17.76	-126.06	1,233.99	-1,290.29	2,370.34	2,327.16	43.18	54.896		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,602.20	4,568.77	31.79	18.08	-126.65	1,242.12	-1,295.30	2,407.40	2,363.34	44.06	54.637		
5,200.00	4,848.83	4,698.47	4,664.27	32.67	18.48	-127.32	1,252.43	-1,301.55	2,444.98	2,399.92	45.05	54.271		
5,300.00	4,937.44	4,832.04	4,796.64	33.56	19.03	-128.17	1,268.91	-1,308.35	2,481.65	2,435.36	46.29	53.607		
5,400.00	5,026.05	4,921.40	4,885.11	34.45	19.41	-128.69	1,281.02	-1,312.01	2,517.74	2,470.48	47.26	53.275		
5,500.00	5,114.66	4,991.96	4,954.92	35.34	19.71	-129.09	1,290.74	-1,315.20	2,554.41	2,506.31	48.10	53.105		
5,600.00	5,203.27	5,092.10	5,053.97	36.23	20.13	-129.64	1,304.61	-1,320.15	2,591.69	2,542.55	49.13	52.748		
5,700.00	5,291.88	5,194.47	5,155.53	37.12	20.56	-130.23	1,316.64	-1,324.66	2,628.52	2,578.36	50.16	52.407		
5,800.00	5,380.50	5,283.93	5,244.38	38.01	20.92	-130.76	1,326.37	-1,328.47	2,665.39	2,614.30	51.08	52.179		
5,900.00	5,469.11	5,376.97	5,336.76	38.90	21.29	-131.28	1,336.69	-1,332.38	2,702.42	2,650.39	52.03	51.942		
6,000.00	5,557.72	5,453.53	5,412.71	39.79	21.61	-131.69	1,345.74	-1,335.74	2,739.81	2,686.94	52.87	51.820		
6,100.00	5,646.33	5,521.96	5,480.50	40.68	21.90	-132.03	1,354.39	-1,339.15	2,777.93	2,724.27	53.66	51.767		
6,200.00	5,734.94	5,608.95	5,566.65	41.58	22.26	-132.46	1,365.40	-1,344.03	2,816.76	2,762.18	54.58	51.612		
6,300.00	5,823.55	5,697.93	5,654.91	42.47	22.63	-132.91	1,375.70	-1,348.86	2,855.59	2,800.10	55.49	51.463		
6,400.00	5,912.16	5,782.02	5,718.52	43.36	22.89	-133.24	1,382.58	-1,352.57	2,894.93	2,838.71	56.22	51.492		
6,500.00	6,000.77	5,820.00	5,775.95	44.26	23.14	-133.52	1,389.40	-1,356.71	2,935.53	2,878.62	56.91	51.585		
6,600.00	6,089.38	5,902.77	5,857.82	45.15	23.49	-133.89	1,399.70	-1,363.14	2,976.87	2,919.09	57.78	51.524		
6,700.00	6,177.99	6,024.43	5,978.38	46.05	24.00	-134.46	1,413.62	-1,371.70	3,017.67	2,958.76	58.91	51.222		
6,800.00	6,266.60	6,106.77	6,060.08	46.94	24.34	-134.84	1,422.27	-1,377.13	3,058.29	2,998.54	59.76	51.180		
6,900.00	6,355.21	6,176.00	6,128.75	47.84	24.62	-135.16	1,429.54	-1,382.05	3,099.50	3,039.00	60.50	51.231		
7,000.00	6,443.82	6,247.52	6,199.63	48.74	24.92	-135.48	1,437.29	-1,387.58	3,141.37	3,080.10	61.26	51.278		
7,100.00	6,532.43	6,353.88	6,305.01	49.63	25.37	-135.93	1,449.06	-1,395.89	3,183.45	3,121.17	62.28	51.116		
7,200.00	6,621.04	6,478.87	6,429.10	50.53	25.88	-136.48	1,461.38	-1,404.37	3,224.79	3,161.38	63.41	50.856		
7,300.00	6,709.65	6,638.61	6,587.68	51.42	26.52	-137.12	1,478.69	-1,412.74	3,264.83	3,200.05	64.78	50.398		
7,400.00	6,798.26	6,722.95	6,671.59	52.32	26.86	-137.48	1,486.40	-1,416.17	3,304.03	3,238.42	65.61	50.359		
7,500.00	6,886.87	6,797.68	6,745.99	53.22	27.14	-137.80	1,492.53	-1,419.41	3,343.65	3,277.29	66.36	50.384		
7,600.00	6,975.48	6,874.84	6,822.82	54.12	27.44	-138.13	1,498.77	-1,423.05	3,383.76	3,316.64	67.13	50.408		
7,656.30	7,025.36	6,926.96	6,874.72	54.62	27.64	-138.35	1,502.81	-1,425.59	3,406.50	3,338.89	67.61	50.385		
7,700.00	7,064.54	6,970.92	6,918.53	55.00	27.81	-147.59	1,505.70	-1,427.62	3,424.15	3,356.16	67.99	50.360		
7,750.00	7,110.29	7,017.26	6,964.76	55.40	27.98	-159.94	1,508.31	-1,429.68	3,444.31	3,375.94	68.37	50.376		
7,800.00	7,156.67	7,063.23	7,010.63	55.75	28.14	-174.03	1,510.58	-1,431.69	3,464.31	3,395.59	68.72	50.413		
7,850.00	7,203.34	7,102.89	7,050.22	56.05	28.28	170.91	1,512.00	-1,433.40	3,484.02	3,415.04	68.98	50.506		
7,900.00	7,249.95	7,141.77	7,089.06	56.30	28.41	156.21	1,512.43	-1,435.07	3,503.36	3,434.15	69.21	50.621		
7,950.00	7,296.14	7,157.00	7,104.28	56.50	28.46	142.98	1,512.34	-1,435.71	3,522.28	3,453.01	69.27	50.849		
8,000.00	7,341.56	7,157.00	7,104.28	56.64	28.46	131.69	1,512.34	-1,435.71	3,541.03	3,471.82	69.22	51.159		
8,050.00	7,385.86	7,190.52	7,137.73	56.74	28.55	122.59	1,511.13	-1,437.45	3,558.96	3,489.65	69.31	51.348		
8,100.00	7,428.71	7,202.96	7,150.11	56.79	28.58	115.08	1,510.26	-1,438.26	3,576.55	3,507.27	69.28	51.625		
8,150.00	7,469.77	7,215.11	7,162.19	56.80	28.62	108.93	1,509.19	-1,439.13	3,593.47	3,524.24	69.23	51.908		
8,200.00	7,508.75	7,246.00	7,192.74	56.77	28.70	104.03	1,505.47	-1,441.71	3,609.80	3,540.54	69.26	52.123		
8,250.00	7,545.33	7,246.00	7,192.74	56.70	28.70	99.71	1,505.47	-1,441.71	3,624.94	3,555.82	69.12	52.441		
8,300.00	7,579.25	7,246.00	7,192.74	56.59	28.70	96.07	1,505.47	-1,441.71	3,639.25	3,570.27	68.98	52.754		
8,350.00	7,610.24	7,246.00	7,192.74	56.45	28.70	92.99	1,505.47	-1,441.71	3,652.63	3,583.79	68.84	53.058		
8,400.00	7,638.06	7,273.76	7,220.00	56.28	28.76	90.72	1,500.99	-1,444.43	3,664.69	3,595.87	68.82	53.249		
8,450.00	7,662.52	7,284.75	7,230.73	56.09	28.78	88.68	1,498.95	-1,445.61	3,675.67	3,606.94	68.73	53.477		
8,500.00	7,683.41	7,295.04	7,240.75	55.88	28.80	87.01	1,496.89	-1,446.75	3,685.42	3,616.76	68.65	53.683		
8,550.00	7,700.59	7,304.56	7,249.99	55.64	28.82	85.67	1,494.86	-1,447.85	3,693.89	3,625.31	68.58	53.865		
8,600.00	7,713.91	7,335.00	7,279.30	55.39	28.89	84.94	1,487.61	-1,451.63	3,701.21	3,632.61	68.60	53.956		
8,650.00	7,723.29	7,335.00	7,279.30	55.14	28.89	84.07	1,487.61	-1,451.63	3,706.93	3,638.42	68.52	54.104		
8,700.00	7,728.64	7,335.00	7,279.30	54.87	28.89	83.49	1,487.61	-1,451.63	3,711.34	3,642.89	68.45	54.220		
8,740.83	7,730.00	7,335.00	7,279.30	54.65	28.89	83.21	1,487.61	-1,451.63	3,713.95	3,645.55	68.41	54.291		
8,800.00	7,730.00	7,345.95	7,289.78	54.33	28.90	83.37	1,484.76	-1,453.06	3,717.54	3,649.14	68.40	54.350		
8,900.00	7,730.00	7,952.31	7,780.94	53.82	29.19	90.97	1,162.65	-1,489.72	3,720.35	3,651.88	68.47	54.335		
9,000.00	7,730.00	8,013.26	7,813.09	53.33	29.17	91.46	1,110.88	-1,489.97	3,721.82	3,653.44	68.38	54.427		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	8,245.67	7,900.44	52.87	29.20	92.81	896.64	-1,487.15	3,720.86	3,652.85	68.00	54.717		
9,200.00	7,730.00	8,315.00	7,913.84	52.44	29.30	93.02	828.63	-1,486.49	3,720.48	3,652.40	68.08	54.649		
9,300.00	7,730.00	8,432.08	7,925.66	52.03	29.61	93.20	712.21	-1,485.86	3,720.14	3,651.91	68.23	54.521		
9,400.00	7,730.00	8,616.37	7,928.79	51.65	30.43	93.25	527.99	-1,483.56	3,718.80	3,650.16	68.65	54.174		
9,500.00	7,730.00	8,671.00	7,928.59	51.29	30.73	93.25	473.37	-1,482.50	3,716.55	3,647.44	69.11	53.774		
9,598.34	7,730.00	8,710.83	7,928.12	50.96	30.98	93.24	433.54	-1,482.30	3,715.73	3,646.10	69.63	53.364		
9,600.00	7,730.00	8,711.45	7,928.11	50.95	30.99	93.24	432.93	-1,482.30	3,715.73	3,646.09	69.64	53.358		
9,700.00	7,730.00	8,760.00	7,927.22	50.64	31.29	93.23	384.39	-1,483.07	3,716.65	3,646.42	70.23	52.919		
9,800.00	7,730.00	8,791.77	7,926.73	50.35	31.52	93.22	352.64	-1,484.08	3,719.11	3,648.28	70.84	52.503		
9,900.00	7,730.00	8,849.00	7,926.88	50.09	31.92	93.22	295.47	-1,486.65	3,723.12	3,651.53	71.59	52.003		
10,000.00	7,730.00	9,097.09	7,937.70	49.86	34.02	93.38	47.73	-1,492.22	3,724.91	3,651.19	73.72	50.531		
10,100.00	7,730.00	9,206.85	7,940.27	49.65	35.06	93.42	-62.00	-1,492.77	3,725.20	3,650.01	75.20	49.540		
10,200.00	7,730.00	9,333.59	7,942.34	49.48	36.37	93.45	-188.72	-1,492.85	3,725.03	3,648.04	76.99	48.382		
10,300.00	7,730.00	9,450.20	7,944.39	49.35	37.64	93.49	-305.31	-1,492.13	3,724.17	3,645.32	78.85	47.229		
10,400.00	7,730.00	9,563.66	7,946.43	49.27	38.94	93.52	-418.74	-1,491.07	3,723.01	3,642.19	80.82	46.065		
10,500.00	7,730.00	9,671.94	7,947.75	49.26	40.24	93.54	-527.02	-1,489.85	3,721.62	3,638.76	82.86	44.914		
10,600.00	7,730.00	9,767.32	7,948.02	49.32	41.42	93.55	-622.38	-1,488.36	3,719.76	3,634.91	84.85	43.840		
10,700.00	7,730.00	9,829.00	7,948.24	49.51	42.20	93.55	-684.06	-1,488.18	3,719.03	3,632.54	86.48	43.003		
10,715.95	7,730.00	9,829.00	7,948.24	49.54	42.20	93.55	-684.06	-1,488.18	3,718.99	3,632.37	86.63	42.932		
10,800.00	7,730.00	9,897.11	7,948.92	49.83	43.07	93.56	-752.16	-1,488.61	3,719.26	3,631.00	88.25	42.143		
10,900.00	7,730.00	9,997.24	7,950.19	50.31	44.39	93.58	-852.28	-1,489.33	3,719.71	3,629.20	90.51	41.095		
11,000.00	7,730.00	10,113.55	7,950.54	50.96	45.95	93.58	-968.59	-1,489.89	3,719.87	3,626.79	93.08	39.963		
11,004.20	7,730.00	10,117.26	7,950.52	50.99	46.00	93.58	-972.30	-1,489.90	3,719.87	3,626.69	93.18	39.922		
11,100.00	7,730.00	10,200.32	7,949.37	51.75	47.14	93.57	-1,055.35	-1,490.39	3,720.02	3,624.72	95.30	39.036		
11,200.00	7,730.00	10,282.73	7,948.80	52.66	48.29	93.56	-1,137.75	-1,491.21	3,720.63	3,623.13	97.50	38.161		
11,300.00	7,730.00	10,398.84	7,948.71	53.67	49.94	93.55	-1,253.86	-1,492.32	3,721.23	3,620.95	100.28	37.109		
11,400.00	7,730.00	10,513.78	7,947.81	54.75	51.59	93.54	-1,368.79	-1,492.95	3,721.40	3,618.28	103.11	36.091		
11,500.00	7,730.00	10,622.42	7,947.27	55.89	53.18	93.53	-1,477.43	-1,493.20	3,721.25	3,615.34	105.90	35.138		
11,600.00	7,730.00	10,763.50	7,949.41	57.07	55.29	93.57	-1,618.48	-1,492.56	3,720.60	3,611.28	109.31	34.037		
11,700.00	7,730.00	10,860.73	7,951.73	58.30	56.76	93.60	-1,715.67	-1,491.18	3,718.99	3,606.95	112.04	33.194		
11,800.00	7,730.00	10,960.82	7,952.12	59.55	58.28	93.61	-1,815.75	-1,490.45	3,717.95	3,603.10	114.85	32.372		
11,900.00	7,730.00	11,094.52	7,950.92	60.84	60.33	93.59	-1,949.43	-1,488.43	3,715.99	3,597.70	118.29	31.415		
12,000.00	7,730.00	11,166.00	7,951.09	62.15	61.44	93.60	-2,020.91	-1,487.50	3,714.31	3,593.64	120.67	30.780		
12,100.00	7,730.00	11,298.04	7,953.96	63.49	63.51	93.65	-2,152.87	-1,484.33	3,711.47	3,587.29	124.18	29.887		
12,200.00	7,730.00	11,344.00	7,954.85	64.85	64.24	93.66	-2,198.82	-1,483.73	3,709.94	3,583.79	126.15	29.409		
12,300.00	7,730.00	11,491.55	7,956.30	66.22	66.57	93.68	-2,346.36	-1,482.15	3,708.65	3,578.64	130.01	28.526		
12,400.00	7,730.00	11,572.85	7,957.33	67.62	67.87	93.70	-2,427.64	-1,480.63	3,706.57	3,573.89	132.67	27.937		
12,500.00	7,730.00	11,661.30	7,959.57	69.03	69.29	93.74	-2,516.05	-1,479.73	3,705.35	3,569.86	135.49	27.347		
12,600.00	7,730.00	11,808.73	7,959.96	70.45	71.66	93.75	-2,663.45	-1,477.30	3,703.37	3,563.92	139.45	26.557		
12,700.00	7,730.00	11,899.06	7,957.81	71.90	73.12	93.72	-2,753.74	-1,475.45	3,700.83	3,558.48	142.35	25.998		
12,800.00	7,730.00	11,968.00	7,955.32	73.35	74.24	93.68	-2,822.62	-1,474.56	3,698.96	3,554.11	144.85	25.536		
12,887.91	7,730.00	12,001.48	7,954.06	74.64	74.79	93.66	-2,856.08	-1,474.52	3,698.33	3,551.82	146.51	25.243		
12,900.00	7,730.00	12,006.21	7,953.89	74.81	74.86	93.66	-2,860.80	-1,474.55	3,698.34	3,551.60	146.74	25.203		
13,000.00	7,730.00	12,057.00	7,952.25	76.29	75.69	93.63	-2,911.56	-1,475.47	3,699.41	3,550.55	148.86	24.852		
13,100.00	7,730.00	12,113.11	7,950.58	77.78	76.60	93.60	-2,967.62	-1,477.19	3,701.76	3,550.68	151.07	24.503		
13,200.00	7,730.00	12,186.81	7,948.55	79.28	77.80	93.57	-3,041.24	-1,479.80	3,704.79	3,551.15	153.65	24.112		
13,300.00	7,730.00	13,300.00	7,946.90	80.79	95.96	93.54	-3,155.32	-1,484.09	3,708.13	3,534.76	173.37	21.388		
13,400.00	7,730.00	12,426.35	7,946.19	82.31	81.71	93.53	-3,280.63	-1,487.67	3,710.55	3,549.75	160.79	23.076		
13,500.00	7,730.00	12,591.00	7,950.77	83.84	84.43	93.60	-3,445.19	-1,489.60	3,711.24	3,545.89	165.35	22.445		
13,600.00	7,730.00	12,656.23	7,953.94	85.37	85.51	93.64	-3,510.34	-1,489.99	3,711.98	3,544.15	167.83	22.117		
13,700.00	7,730.00	12,713.84	7,956.96	86.92	86.47	93.69	-3,567.86	-1,491.29	3,714.19	3,544.05	170.14	21.830		
13,800.00	7,730.00	12,792.52	7,958.87	88.47	87.77	93.72	-3,646.47	-1,493.90	3,717.28	3,544.39	172.89	21.501		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	12,904.89	7,958.72	90.03	89.64	93.71	-3,758.77	-1,497.71	3,720.31	3,543.92	176.39	21.092		
14,000.00	7,730.00	13,029.61	7,957.46	91.59	91.71	93.69	-3,883.42	-1,501.62	3,723.06	3,542.89	180.17	20.664		
14,100.00	7,730.00	13,162.06	7,953.67	93.16	93.92	93.63	-4,015.77	-1,505.06	3,725.21	3,541.08	184.13	20.232		
14,200.00	7,730.00	13,278.48	7,952.62	94.74	95.87	93.61	-4,132.17	-1,506.39	3,725.87	3,538.12	187.75	19.845		
14,300.00	7,730.00	13,349.56	7,953.33	96.33	97.07	93.62	-4,203.24	-1,507.54	3,727.22	3,536.81	190.40	19.575		
14,400.00	7,730.00	13,564.12	7,955.86	97.92	100.68	93.66	-4,417.76	-1,508.81	3,727.68	3,531.53	196.15	19.005		
14,500.00	7,730.00	13,670.21	7,958.78	99.51	102.48	93.71	-4,523.80	-1,507.46	3,726.24	3,526.66	199.59	18.670		
14,600.00	7,730.00	13,779.54	7,963.09	101.11	104.34	93.77	-4,633.03	-1,505.87	3,724.72	3,521.61	203.10	18.339		
14,700.00	7,730.00	13,928.00	7,966.56	102.72	106.87	93.83	-4,781.38	-1,501.85	3,721.60	3,514.16	207.43	17.941		
14,800.00	7,730.00	13,987.32	7,967.40	104.33	107.89	93.85	-4,840.67	-1,500.00	3,718.59	3,508.65	209.94	17.713		
14,900.00	7,730.00	14,028.84	7,968.31	105.94	108.59	93.86	-4,882.18	-1,499.66	3,717.48	3,505.44	212.04	17.532		
14,941.23	7,730.00	14,055.99	7,968.95	106.61	109.06	93.87	-4,909.32	-1,499.65	3,717.40	3,504.29	213.11	17.443		
15,000.00	7,730.00	14,094.69	7,969.87	107.56	109.72	93.88	-4,948.01	-1,499.83	3,717.56	3,502.92	214.64	17.320		
15,100.00	7,730.00	14,176.52	7,971.69	109.18	111.11	93.91	-5,029.81	-1,500.66	3,718.38	3,500.81	217.58	17.090		
15,200.00	7,730.00	14,272.12	7,972.92	110.81	112.74	93.93	-5,125.39	-1,501.98	3,719.50	3,498.68	220.82	16.844		
15,300.00	7,730.00	14,352.28	7,973.33	112.44	114.10	93.94	-5,205.54	-1,503.33	3,720.89	3,497.17	223.72	16.632		
15,400.00	7,730.00	14,506.52	7,977.30	114.08	116.73	94.00	-5,359.71	-1,505.03	3,721.82	3,493.53	228.29	16.303		
15,500.00	7,730.00	15,500.00	7,980.15	115.72	133.76	94.04	-5,483.20	-1,505.01	3,721.59	3,474.53	247.06	15.063		
15,548.83	7,730.00	14,663.49	7,980.56	116.52	119.42	94.05	-5,516.63	-1,504.94	3,721.41	3,487.94	233.48	15.939		
15,600.00	7,730.00	14,683.87	7,980.86	117.36	119.77	94.05	-5,537.02	-1,505.08	3,721.63	3,487.11	234.52	15.869		
15,700.00	7,730.00	14,730.00	7,981.85	119.00	120.56	94.06	-5,583.13	-1,505.98	3,723.28	3,486.63	236.65	15.733		
15,800.00	7,730.00	14,983.15	7,988.96	120.65	124.90	94.17	-5,836.10	-1,508.60	3,725.20	3,481.78	243.42	15.304		
15,900.00	7,730.00	15,048.44	7,989.68	122.30	126.02	94.18	-5,901.38	-1,507.81	3,723.77	3,477.71	246.06	15.133		
16,000.00	7,730.00	15,145.26	7,990.47	123.96	127.69	94.20	-5,998.19	-1,507.57	3,723.23	3,473.85	249.38	14.930		
16,100.00	7,730.00	15,264.00	7,993.18	125.61	129.74	94.24	-6,116.89	-1,506.00	3,721.66	3,468.47	253.18	14.700		
16,195.04	7,730.00	15,310.24	7,993.79	127.19	130.53	94.25	-6,163.12	-1,505.59	3,720.82	3,465.47	255.34	14.572		
16,200.00	7,730.00	15,312.00	7,993.81	127.27	130.56	94.25	-6,164.89	-1,505.59	3,720.82	3,465.38	255.44	14.566		
16,300.00	7,730.00	16,300.00	7,995.71	128.94	147.65	94.28	-6,353.82	-1,505.70	3,721.41	3,446.83	274.58	13.553		
16,400.00	7,730.00	15,634.17	7,999.03	130.60	136.13	94.34	-6,486.90	-1,501.65	3,718.08	3,453.22	264.85	14.038		
16,500.00	7,730.00	15,721.59	8,000.66	132.27	137.65	94.37	-6,574.28	-1,499.18	3,715.06	3,447.05	268.01	13.862		
16,600.00	7,730.00	15,814.52	8,004.02	133.94	139.26	94.42	-6,667.10	-1,496.64	3,712.27	3,440.99	271.28	13.684		
16,700.00	7,730.00	15,907.96	8,008.04	135.61	140.88	94.49	-6,760.43	-1,494.38	3,709.84	3,435.28	274.56	13.512		
16,800.00	7,730.00	16,052.09	8,013.16	137.28	143.39	94.57	-6,904.39	-1,489.73	3,706.48	3,427.60	278.88	13.291		
16,900.00	7,730.00	16,110.85	8,014.73	138.96	144.41	94.60	-6,963.10	-1,487.88	3,703.27	3,421.81	281.46	13.157		
17,000.00	7,730.00	16,155.00	8,016.36	140.64	145.18	94.62	-7,007.21	-1,487.01	3,701.38	3,417.70	283.69	13.047		
17,100.00	7,730.00	16,228.02	8,019.28	142.32	146.45	94.67	-7,080.17	-1,486.39	3,700.56	3,414.05	286.51	12.916		
17,200.00	7,730.00	16,371.05	8,024.03	144.00	148.93	94.75	-7,223.12	-1,485.17	3,699.64	3,408.77	290.87	12.719		
17,300.00	7,730.00	16,469.45	8,025.72	145.69	150.64	94.77	-7,321.49	-1,483.92	3,698.17	3,403.91	294.26	12.568		
17,400.00	7,730.00	16,562.02	8,025.95	147.37	152.25	94.78	-7,414.05	-1,482.94	3,696.80	3,399.27	297.53	12.425		
17,500.00	7,730.00	16,630.23	8,025.34	149.06	153.43	94.77	-7,482.26	-1,482.55	3,695.87	3,395.61	300.26	12.309		
17,529.57	7,730.00	16,645.70	8,025.31	149.56	153.70	94.77	-7,497.74	-1,482.57	3,695.81	3,394.86	300.96	12.280		
17,600.00	7,730.00	16,690.00	8,025.59	150.75	154.47	94.77	-7,542.03	-1,482.94	3,696.15	3,393.38	302.77	12.208		
17,700.00	7,730.00	16,747.15	8,026.29	152.44	155.46	94.78	-7,599.17	-1,483.93	3,697.54	3,392.37	305.17	12.116		
17,800.00	7,730.00	16,892.18	8,028.77	154.13	157.97	94.82	-7,744.15	-1,486.30	3,699.06	3,389.40	309.67	11.945		
17,900.00	7,730.00	16,998.88	8,032.48	155.83	159.82	94.88	-7,850.78	-1,487.13	3,699.80	3,386.55	313.25	11.811		
18,000.00	7,730.00	17,125.39	8,035.74	157.52	162.02	94.93	-7,977.24	-1,487.30	3,699.79	3,382.51	317.29	11.661		
18,100.00	7,730.00	17,222.58	8,036.76	159.22	163.71	94.94	-8,074.43	-1,487.33	3,699.57	3,378.91	320.66	11.537		
18,123.69	7,730.00	17,239.99	8,036.86	159.62	164.02	94.94	-8,091.84	-1,487.36	3,699.55	3,378.21	321.33	11.513		
18,200.00	7,730.00	17,294.95	8,036.87	160.92	164.97	94.94	-8,146.80	-1,487.71	3,699.77	3,376.30	323.46	11.438		
18,300.00	7,730.00	17,424.48	8,034.96	162.62	167.22	94.91	-8,276.31	-1,488.69	3,700.09	3,372.49	327.59	11.295		
18,400.00	7,730.00	17,534.67	8,031.74	164.32	169.14	94.86	-8,366.45	-1,488.87	3,699.66	3,368.38	331.28	11.168		
18,426.22	7,730.00	17,546.00	8,031.39	164.76	169.33	94.86	-8,397.78	-1,488.89	3,699.56	3,367.71	331.85	11.148 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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-53.17	786.89	-1,050.82	1,312.84					
100.00	100.00	94.72	94.72	0.13	0.14	-53.17	786.71	-1,050.65	1,312.56	1,312.28	0.28	4,740.094		
200.00	200.00	195.46	195.46	0.49	0.41	-53.18	786.22	-1,050.19	1,311.91	1,311.01	0.90	1,454.715		
300.00	300.00	291.21	291.21	0.85	0.75	-53.18	785.93	-1,049.92	1,311.50	1,309.90	1.60	817.964		
400.00	400.00	391.15	391.15	1.21	1.11	-53.18	785.81	-1,049.77	1,311.31	1,308.99	2.32	565.540		
500.00	500.00	492.73	492.73	1.57	1.47	-53.18	785.74	-1,049.44	1,311.00	1,307.97	3.04	431.342		
543.35	543.35	536.77	536.76	1.72	1.63	-53.17	785.72	-1,049.25	1,310.84	1,307.49	3.35	391.085	CC, ES	
600.00	600.00	568.52	568.51	1.93	1.73	-53.17	786.02	-1,049.46	1,311.32	1,307.66	3.66	358.252		
700.00	700.00	635.38	635.34	2.29	1.96	-53.13	787.79	-1,050.42	1,314.07	1,309.82	4.24	309.691		
800.00	800.00	700.37	700.18	2.64	2.18	-53.02	791.87	-1,051.65	1,319.36	1,314.55	4.82	273.809		
900.00	900.00	763.00	762.50	3.00	2.40	-52.86	797.86	-1,053.44	1,327.42	1,322.04	5.39	246.473		
1,000.00	1,000.00	848.31	847.16	3.36	2.71	-52.59	807.94	-1,056.52	1,337.48	1,331.44	6.04	221.448		
1,100.00	1,100.00	941.71	939.71	3.72	3.06	-52.27	820.00	-1,059.88	1,348.24	1,341.51	6.73	200.342		
1,200.00	1,200.00	1,033.00	1,030.11	4.08	3.42	-51.95	832.28	-1,063.31	1,359.51	1,352.09	7.42	183.300		
1,300.00	1,299.98	1,123.28	1,119.38	4.43	3.78	-98.56	845.24	-1,066.90	1,371.80	1,363.70	8.10	169.320		
1,400.00	1,399.84	1,226.28	1,221.24	4.79	4.20	-98.16	859.88	-1,071.32	1,384.82	1,375.98	8.84	156.675		
1,500.00	1,499.45	1,331.05	1,325.01	5.15	4.62	-97.96	873.47	-1,076.20	1,397.82	1,388.23	9.59	145.778		
1,600.00	1,598.70	1,421.87	1,414.91	5.51	5.00	-97.84	885.76	-1,080.07	1,411.36	1,401.07	10.29	137.144		
1,700.00	1,697.47	1,507.69	1,499.55	5.89	5.36	-97.72	899.58	-1,082.91	1,426.25	1,415.26	10.99	129.783		
1,800.00	1,795.62	1,623.71	1,613.85	6.28	5.86	-97.77	919.25	-1,086.29	1,441.92	1,430.08	11.85	121.721		
1,900.00	1,893.06	1,714.64	1,703.46	6.69	6.25	-97.84	934.54	-1,088.03	1,457.20	1,444.58	12.62	115.511		
2,000.00	1,989.64	1,795.48	1,783.09	7.13	6.61	-97.96	948.30	-1,090.40	1,473.95	1,460.58	13.36	110.288		
2,100.00	2,085.27	1,942.94	1,928.51	7.61	7.25	-98.66	972.41	-1,094.14	1,490.85	1,476.39	14.45	103.145		
2,200.00	2,179.82	2,063.35	2,047.93	8.12	7.74	-99.43	987.77	-1,095.48	1,505.04	1,489.59	15.44	97.460		
2,300.00	2,273.17	2,152.32	2,136.24	8.67	8.10	-100.05	998.43	-1,096.72	1,520.08	1,503.75	16.33	93.079		
2,400.00	2,365.21	2,237.07	2,220.35	9.27	8.45	-100.69	1,008.64	-1,098.44	1,536.77	1,519.52	17.24	89.125		
2,500.00	2,455.84	2,330.24	2,312.82	9.92	8.83	-101.50	1,019.93	-1,100.70	1,555.08	1,536.85	18.24	85.276		
2,580.62	2,527.80	2,403.89	2,385.95	10.49	9.12	-102.19	1,028.41	-1,102.65	1,570.81	1,551.75	19.06	82.411		
2,600.00	2,544.97	2,421.21	2,403.16	10.63	9.19	-102.44	1,030.32	-1,103.17	1,574.73	1,555.47	19.26	81.759		
2,700.00	2,633.58	2,513.00	2,494.35	11.37	9.56	-103.73	1,040.32	-1,105.96	1,595.46	1,575.15	20.31	78.547		
2,800.00	2,722.19	2,604.05	2,584.83	12.13	9.92	-104.98	1,050.13	-1,108.71	1,616.99	1,595.62	21.37	75.663		
2,900.00	2,810.80	2,707.66	2,687.87	12.91	10.33	-106.40	1,060.53	-1,111.98	1,639.18	1,616.69	22.49	72.877		
3,000.00	2,899.41	2,834.99	2,814.56	13.71	10.83	-108.07	1,073.14	-1,113.72	1,660.68	1,636.96	23.73	69.994		
3,100.00	2,988.02	2,932.24	2,911.12	14.52	11.22	-109.21	1,084.60	-1,112.62	1,681.57	1,656.72	24.84	67.686		
3,200.00	3,076.63	2,999.65	2,977.94	15.34	11.49	-109.97	1,093.48	-1,111.94	1,703.72	1,677.89	25.83	65.966		
3,300.00	3,165.24	3,079.43	3,056.99	16.16	11.82	-110.84	1,104.28	-1,112.02	1,727.49	1,700.63	26.87	64.301		
3,400.00	3,253.85	3,170.70	3,147.44	17.00	12.20	-111.84	1,116.35	-1,112.53	1,752.13	1,724.17	27.96	62.672		
3,500.00	3,342.46	3,272.70	3,248.55	17.84	12.62	-112.92	1,129.82	-1,113.00	1,777.22	1,748.13	29.10	61.075		
3,600.00	3,431.07	3,375.36	3,350.47	18.69	13.03	-114.01	1,142.18	-1,112.99	1,802.05	1,771.82	30.23	59.606		
3,700.00	3,519.68	3,448.26	3,422.91	19.55	13.33	-114.78	1,150.37	-1,113.31	1,827.58	1,796.38	31.20	58.568		
3,800.00	3,608.29	3,509.61	3,483.82	20.40	13.58	-115.42	1,157.61	-1,114.34	1,854.90	1,822.79	32.10	57.777		
3,900.00	3,696.90	3,571.00	3,544.58	21.26	13.83	-116.01	1,166.15	-1,116.22	1,884.38	1,851.39	32.99	57.115		
4,000.00	3,785.51	3,671.35	3,643.86	22.13	14.26	-116.96	1,180.26	-1,119.84	1,914.91	1,880.81	34.10	56.148		
4,100.00	3,874.12	3,783.47	3,755.17	23.00	14.71	-118.06	1,193.28	-1,123.21	1,944.69	1,909.43	35.26	55.155		
4,200.00	3,962.73	3,874.06	3,845.15	23.87	15.08	-118.92	1,203.46	-1,125.67	1,974.62	1,938.33	36.28	54.425		
4,300.00	4,051.34	3,966.33	3,936.61	24.74	15.46	-119.73	1,215.46	-1,127.75	2,004.95	1,967.63	37.32	53.724		
4,400.00	4,139.95	4,064.76	4,034.28	25.62	15.86	-120.60	1,227.44	-1,130.00	2,035.53	1,997.15	38.38	53.035		
4,500.00	4,228.56	4,159.11	4,128.17	26.49	16.23	-121.47	1,236.53	-1,132.28	2,066.13	2,026.74	39.39	52.450		
4,600.00	4,317.17	4,247.91	4,216.42	27.37	16.59	-122.23	1,246.14	-1,134.23	2,097.17	2,056.80	40.37	51.945		
4,700.00	4,405.78	4,333.97	4,301.85	28.25	16.94	-122.93	1,256.34	-1,136.07	2,128.70	2,087.36	41.34	51.495		
4,800.00	4,494.39	4,415.10	4,382.46	29.13	17.27	-123.60	1,265.26	-1,138.21	2,160.89	2,118.62	42.27	51.126		
4,900.00	4,583.00	4,495.37	4,462.01	30.02	17.60	-124.20	1,275.69	-1,140.48	2,193.86	2,150.67	43.19	50.797		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,602.56	4,568.28	30.90	18.04	-124.98	1,289.42	-1,143.36	2,226.97	2,182.70	44.28	50.294		
5,100.00	4,760.22	4,695.92	4,661.00	31.79	18.42	-125.67	1,300.16	-1,145.53	2,259.88	2,214.61	45.27	49.924		
5,200.00	4,848.83	4,773.33	4,737.65	32.67	18.74	-126.18	1,310.77	-1,147.47	2,293.47	2,247.31	46.16	49.682		
5,300.00	4,937.44	4,871.16	4,834.45	33.56	19.16	-126.81	1,324.64	-1,149.92	2,327.35	2,280.16	47.20	49.312		
5,400.00	5,026.05	4,962.24	4,924.75	34.45	19.53	-127.40	1,336.32	-1,152.23	2,361.36	2,313.20	48.17	49.025		
5,500.00	5,114.66	5,055.39	5,017.24	35.34	19.91	-128.02	1,347.18	-1,154.69	2,395.60	2,346.47	49.13	48.760		
5,600.00	5,203.27	5,151.15	5,112.45	36.23	20.29	-128.66	1,357.15	-1,157.10	2,429.89	2,379.79	50.09	48.506		
5,700.00	5,291.88	5,239.58	5,200.32	37.12	20.65	-129.23	1,366.79	-1,159.25	2,464.37	2,413.36	51.01	48.310		
5,800.00	5,380.50	5,330.94	5,291.00	38.01	21.02	-129.79	1,377.69	-1,161.54	2,499.22	2,447.27	51.95	48.105		
5,900.00	5,469.11	5,446.79	5,405.97	38.90	21.49	-130.46	1,391.69	-1,163.87	2,533.87	2,480.81	53.06	47.759		
6,000.00	5,557.72	5,547.13	5,505.43	39.79	21.91	-131.00	1,404.94	-1,164.96	2,567.87	2,513.81	54.06	47.497		
6,100.00	5,646.33	5,644.19	5,601.85	40.68	22.30	-131.55	1,415.97	-1,165.92	2,601.91	2,546.89	55.03	47.285		
6,200.00	5,734.94	5,717.42	5,674.67	41.58	22.59	-131.97	1,423.70	-1,166.81	2,636.33	2,580.51	55.83	47.224		
6,300.00	5,823.55	5,808.44	5,765.08	42.47	22.95	-132.46	1,434.10	-1,168.33	2,671.37	2,614.63	56.74	47.081		
6,400.00	5,912.16	5,881.19	5,837.43	43.36	23.24	-132.86	1,441.64	-1,169.63	2,706.72	2,649.20	57.52	47.055		
6,500.00	6,000.77	5,968.53	5,924.29	44.26	23.59	-133.34	1,450.52	-1,171.84	2,742.90	2,684.50	58.39	46.972		
6,600.00	6,089.38	6,074.47	6,029.38	45.15	24.02	-133.84	1,463.71	-1,174.02	2,778.81	2,719.39	59.41	46.771		
6,700.00	6,177.99	6,153.56	6,107.87	46.05	24.34	-134.22	1,473.31	-1,175.56	2,814.78	2,754.54	60.24	46.724		
6,800.00	6,266.60	6,241.29	6,195.08	46.94	24.69	-134.66	1,482.55	-1,177.67	2,851.33	2,790.22	61.11	46.658		
6,900.00	6,355.21	6,333.01	6,286.19	47.84	25.06	-135.09	1,492.86	-1,179.77	2,887.92	2,825.91	62.01	46.570		
7,000.00	6,443.82	6,411.22	6,363.74	48.74	25.38	-135.42	1,502.87	-1,181.74	2,924.82	2,861.99	62.83	46.549		
7,100.00	6,532.43	6,479.75	6,431.69	49.63	25.67	-135.71	1,511.47	-1,183.88	2,962.39	2,898.82	63.58	46.594		
7,200.00	6,621.04	6,542.78	6,494.25	50.53	25.92	-135.99	1,518.69	-1,186.38	3,000.89	2,936.62	64.27	46.693		
7,300.00	6,709.65	6,631.21	6,582.20	51.42	26.27	-136.41	1,527.05	-1,190.21	3,039.94	2,974.83	65.11	46.687		
7,400.00	6,798.26	6,711.80	6,662.49	52.32	26.57	-136.81	1,532.99	-1,193.74	3,079.30	3,013.42	65.87	46.746		
7,500.00	6,886.87	6,806.46	6,756.91	53.22	26.91	-137.30	1,538.40	-1,197.84	3,118.88	3,052.18	66.70	46.758		
7,600.00	6,975.48	6,891.26	6,841.57	54.12	27.21	-137.76	1,541.98	-1,201.37	3,158.59	3,091.15	67.44	46.833		
7,656.30	7,025.36	6,987.00	6,937.19	54.62	27.49	-138.37	1,540.14	-1,203.70	3,180.21	3,112.14	68.07	46.721		
7,700.00	7,064.54	6,987.00	6,937.19	55.00	27.49	-147.39	1,540.14	-1,203.70	3,197.44	3,129.28	68.15	46.916		
7,750.00	7,110.29	7,023.85	6,973.81	55.40	27.57	-159.83	1,536.14	-1,204.25	3,217.06	3,148.70	68.36	47.060		
7,800.00	7,156.67	7,037.24	6,987.05	55.75	27.60	-173.99	1,534.22	-1,204.64	3,237.28	3,168.83	68.45	47.295		
7,850.00	7,203.34	7,076.00	7,025.14	56.05	27.68	170.74	1,527.25	-1,206.37	3,257.97	3,189.37	68.59	47.498		
7,900.00	7,249.95	7,076.00	7,025.14	56.30	27.68	155.87	1,527.25	-1,206.37	3,278.05	3,209.48	68.57	47.805		
7,950.00	7,296.14	7,166.00	7,112.37	56.50	27.83	142.45	1,505.48	-1,209.79	3,298.00	3,229.23	68.77	47.959		
8,000.00	7,341.56	7,166.00	7,112.37	56.64	27.83	131.18	1,505.48	-1,209.79	3,316.70	3,247.99	68.71	48.272		
8,050.00	7,385.86	7,204.90	7,149.45	56.74	27.87	121.96	1,493.78	-1,210.82	3,334.56	3,265.85	68.70	48.535		
8,100.00	7,428.71	7,223.26	7,166.74	56.79	27.90	114.44	1,487.62	-1,211.48	3,351.92	3,283.27	68.64	48.830		
8,150.00	7,469.77	7,255.00	7,196.25	56.80	27.93	108.36	1,476.03	-1,212.86	3,368.58	3,299.98	68.59	49.111		
8,200.00	7,508.75	7,255.00	7,196.25	56.77	27.93	103.24	1,476.03	-1,212.86	3,384.22	3,315.74	68.48	49.419		
8,250.00	7,545.33	7,255.00	7,196.25	56.70	27.93	98.96	1,476.03	-1,212.86	3,399.13	3,330.77	68.36	49.723		
8,300.00	7,579.25	7,284.38	7,223.22	56.59	27.96	95.58	1,464.50	-1,214.56	3,412.76	3,344.48	68.28	49.981		
8,350.00	7,610.24	7,296.80	7,234.54	56.45	27.97	92.68	1,459.48	-1,215.45	3,425.45	3,357.27	68.18	50.241		
8,400.00	7,638.06	7,308.77	7,245.41	56.28	27.98	90.26	1,454.56	-1,216.41	3,436.98	3,368.90	68.08	50.481		
8,450.00	7,662.52	7,344.00	7,277.15	56.09	28.01	88.52	1,439.63	-1,219.75	3,447.59	3,379.56	68.03	50.677		
8,500.00	7,683.41	7,344.00	7,277.15	55.88	28.01	86.80	1,439.63	-1,219.75	3,456.46	3,388.52	67.94	50.876		
8,550.00	7,700.59	8,550.00	7,315.16	55.64	28.84	85.91	1,418.60	-1,223.58	3,463.88	3,395.21	68.67	50.442		
8,600.00	7,713.91	7,478.55	7,392.16	55.39	28.07	85.94	1,371.05	-1,230.60	3,469.48	3,401.63	67.85	51.134		
8,650.00	7,723.29	7,519.42	7,423.87	55.14	28.08	85.69	1,345.40	-1,233.08	3,473.20	3,405.43	67.77	51.247		
8,700.00	7,728.64	7,547.20	7,444.34	54.87	28.08	85.61	1,326.70	-1,234.69	3,475.39	3,407.68	67.71	51.325		
8,740.83	7,730.00	7,773.61	7,584.76	54.65	28.09	87.80	1,150.04	-1,240.56	3,475.88	3,408.75	67.13	51.782		
8,800.00	7,730.00	7,827.96	7,609.63	54.33	28.11	88.21	1,101.75	-1,239.70	3,473.57	3,406.58	66.99	51.854		
8,900.00	7,730.00	7,993.91	7,652.54	53.82	28.26	88.92	942.14	-1,233.55	3,468.54	3,402.05	66.49	52.166		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	8,029.11	7,657.42	53.33	28.32	89.00	907.31	-1,232.19	3,464.03	3,397.48	66.55	52.054		
9,100.00	7,730.00	8,127.24	7,668.45	52.87	28.55	89.18	809.83	-1,229.96	3,461.20	3,394.69	66.52	52.033		
9,200.00	7,730.00	8,199.43	7,674.19	52.44	28.77	89.27	737.91	-1,227.84	3,457.90	3,391.22	66.67	51.863		
9,300.00	7,730.00	8,266.63	7,675.21	52.03	29.03	89.29	670.73	-1,226.69	3,455.77	3,388.85	66.92	51.639		
9,400.00	7,730.00	8,352.70	7,675.32	51.65	29.41	89.29	584.67	-1,225.67	3,454.25	3,386.97	67.28	51.341		
9,500.00	7,730.00	8,445.90	7,675.58	51.29	29.91	89.30	491.47	-1,224.87	3,453.04	3,385.24	67.80	50.929		
9,600.00	7,730.00	9,600.00	7,676.13	50.95	37.74	89.30	365.01	-1,223.32	3,451.45	3,375.98	75.47	45.730		
9,700.00	7,730.00	8,704.82	7,676.17	50.64	31.72	89.30	232.61	-1,220.00	3,448.46	3,378.80	69.66	49.507		
9,800.00	7,730.00	8,769.00	7,675.72	50.35	32.25	89.30	168.44	-1,218.74	3,446.15	3,375.61	70.54	48.856		
9,900.00	7,730.00	8,824.44	7,675.68	50.09	32.75	89.30	113.01	-1,218.30	3,445.00	3,373.54	71.46	48.210		
10,000.00	7,730.00	8,927.65	7,677.47	49.86	33.71	89.33	9.82	-1,218.48	3,444.83	3,372.02	72.80	47.317		
10,100.00	7,730.00	9,076.13	7,679.02	49.65	35.21	89.35	-138.65	-1,216.96	3,443.41	3,368.72	74.70	46.098		
10,200.00	7,730.00	9,178.74	7,679.13	49.48	36.33	89.35	-241.23	-1,215.04	3,441.20	3,364.84	76.36	45.064		
10,300.00	7,730.00	9,254.05	7,679.78	49.35	37.18	89.36	-316.53	-1,213.93	3,439.40	3,361.54	77.86	44.172		
10,400.00	7,730.00	9,333.70	7,680.32	49.27	38.11	89.37	-396.19	-1,213.47	3,438.44	3,358.95	79.49	43.257		
10,500.00	7,730.00	9,419.92	7,680.56	49.26	39.15	89.38	-482.40	-1,213.06	3,437.65	3,356.38	81.27	42.300		
10,530.47	7,730.00	9,437.24	7,680.72	49.26	39.36	89.38	-499.72	-1,213.08	3,437.59	3,355.86	81.72	42.063		
10,600.00	7,730.00	9,482.00	7,681.49	49.32	39.92	89.39	-544.47	-1,213.46	3,437.89	3,355.07	82.82	41.509		
10,700.00	7,730.00	9,579.02	7,684.25	49.51	41.14	89.44	-641.45	-1,214.69	3,438.78	3,353.89	84.90	40.505		
10,800.00	7,730.00	9,682.42	7,687.76	49.83	42.50	89.50	-744.78	-1,215.90	3,439.59	3,352.43	87.16	39.464		
10,900.00	7,730.00	9,797.05	7,691.99	50.31	44.04	89.57	-859.33	-1,216.84	3,440.03	3,350.36	89.67	38.363		
11,000.00	7,730.00	9,881.09	7,694.98	50.96	45.19	89.62	-943.31	-1,217.46	3,440.42	3,348.62	91.81	37.475		
11,100.00	7,730.00	9,953.52	7,695.76	51.75	46.19	89.63	-1,015.73	-1,218.56	3,441.59	3,347.79	93.80	36.690		
11,200.00	7,730.00	10,038.90	7,695.50	52.66	47.39	89.63	-1,101.09	-1,220.46	3,443.45	3,347.41	96.04	35.855		
11,300.00	7,730.00	10,164.91	7,693.98	53.67	49.19	89.60	-1,227.06	-1,222.92	3,445.08	3,346.09	98.99	34.801		
11,400.00	7,730.00	10,263.28	7,692.14	54.75	50.61	89.57	-1,325.40	-1,224.35	3,446.22	3,344.65	101.56	33.932		
11,500.00	7,730.00	10,394.00	7,688.53	55.89	52.54	89.51	-1,456.06	-1,225.82	3,447.02	3,342.28	104.74	32.910		
11,600.00	7,730.00	10,482.25	7,686.67	57.07	53.86	89.48	-1,544.29	-1,226.63	3,447.60	3,340.36	107.24	32.147		
11,700.00	7,730.00	10,585.61	7,688.59	58.30	55.43	89.51	-1,647.61	-1,227.70	3,448.29	3,338.21	110.08	31.327		
11,800.00	7,730.00	10,715.53	7,692.85	59.55	57.42	89.58	-1,777.46	-1,228.59	3,448.64	3,335.20	113.45	30.398		
11,900.00	7,730.00	10,851.64	7,692.04	60.84	59.52	89.57	-1,913.55	-1,227.93	3,447.80	3,330.83	116.97	29.475		
12,000.00	7,730.00	10,977.46	7,687.89	62.15	61.50	89.50	-2,039.29	-1,226.27	3,446.17	3,325.82	120.35	28.635		
12,100.00	7,730.00	11,054.73	7,684.87	63.49	62.72	89.45	-2,116.49	-1,225.07	3,444.35	3,321.50	122.85	28.036		
12,200.00	7,730.00	11,151.95	7,682.75	64.85	64.26	89.41	-2,213.68	-1,224.27	3,443.20	3,317.44	125.76	27.379		
12,300.00	7,730.00	11,235.04	7,681.12	66.22	65.58	89.39	-2,296.75	-1,223.56	3,442.05	3,313.63	128.42	26.803		
12,400.00	7,730.00	11,367.50	7,679.06	67.62	67.70	89.35	-2,429.20	-1,222.63	3,441.10	3,309.03	132.07	26.055		
12,500.00	7,730.00	11,501.16	7,679.48	69.03	69.86	89.36	-2,562.82	-1,220.18	3,438.95	3,303.16	135.79	25.326		
12,600.00	7,730.00	11,562.20	7,680.34	70.45	70.85	89.37	-2,623.84	-1,218.83	3,436.54	3,298.44	138.10	24.884		
12,700.00	7,730.00	11,620.00	7,681.37	71.90	71.79	89.39	-2,681.64	-1,218.87	3,435.95	3,295.60	140.34	24.482		
12,712.60	7,730.00	11,620.00	7,681.37	72.08	71.79	89.39	-2,681.64	-1,218.87	3,435.93	3,295.45	140.48	24.459		
12,800.00	7,730.00	11,659.39	7,682.11	73.35	72.43	89.40	-2,721.01	-1,219.48	3,436.73	3,294.54	142.19	24.170		
12,900.00	7,730.00	11,751.55	7,683.64	74.81	73.93	89.43	-2,813.14	-1,221.38	3,438.42	3,293.29	145.14	23.691		
13,000.00	7,730.00	11,897.56	7,685.46	76.29	76.31	89.46	-2,959.13	-1,223.37	3,439.46	3,290.21	149.25	23.045		
13,100.00	7,730.00	11,954.90	7,686.57	77.78	77.25	89.48	-3,016.45	-1,224.19	3,440.46	3,288.96	151.49	22.710		
13,200.00	7,730.00	12,038.32	7,689.16	79.28	78.62	89.52	-3,099.80	-1,226.07	3,442.33	3,288.03	154.30	22.309		
13,300.00	7,730.00	12,136.71	7,692.99	80.79	80.25	89.58	-3,198.09	-1,228.46	3,444.38	3,286.93	157.45	21.875		
13,400.00	7,730.00	12,236.66	7,697.32	82.31	81.90	89.66	-3,297.92	-1,230.88	3,446.44	3,285.78	160.66	21.452		
13,500.00	7,730.00	12,342.62	7,702.33	83.84	83.65	89.74	-3,403.73	-1,233.37	3,448.42	3,284.41	164.01	21.026		
13,600.00	7,730.00	12,416.78	7,705.36	85.37	84.88	89.79	-3,477.81	-1,235.36	3,450.73	3,284.08	166.65	20.706		
13,700.00	7,730.00	12,543.83	7,708.34	86.92	86.99	89.84	-3,604.77	-1,238.71	3,453.03	3,282.54	170.50	20.252		
13,800.00	7,730.00	12,675.47	7,710.11	88.47	89.19	89.87	-3,736.38	-1,241.01	3,454.44	3,279.99	174.45	19.801		
13,900.00	7,730.00	12,779.13	7,712.44	90.03	90.93	89.91	-3,840.00	-1,242.25	3,455.29	3,277.49	177.80	19.433		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	12,896.26	7,717.87	91.59	92.90	90.00	-3,956.99	-1,243.30	3,455.84	3,274.37	181.47	19.043		
14,100.00	7,730.00	13,005.39	7,723.52	93.16	94.74	90.09	-4,065.98	-1,243.93	3,456.08	3,271.10	184.98	18.684		
14,200.00	7,730.00	13,100.46	7,728.16	94.74	96.35	90.17	-4,160.94	-1,244.30	3,456.15	3,267.97	188.17	18.367		
14,300.00	7,730.00	13,194.43	7,731.26	96.33	97.94	90.22	-4,254.85	-1,244.96	3,456.52	3,265.17	191.35	18.064		
14,400.00	7,730.00	13,294.48	7,734.09	97.92	99.63	90.27	-4,354.86	-1,245.70	3,456.93	3,262.26	194.66	17.758		
14,500.00	7,730.00	13,419.79	7,737.03	99.51	101.76	90.32	-4,480.13	-1,246.23	3,457.04	3,258.48	198.56	17.411		
14,600.00	7,730.00	13,569.06	7,740.59	101.11	104.30	90.37	-4,629.36	-1,245.32	3,456.14	3,253.16	202.98	17.027		
14,700.00	7,730.00	13,653.02	7,741.92	102.72	105.73	90.40	-4,713.30	-1,244.24	3,454.54	3,248.57	205.98	16.772		
14,800.00	7,730.00	13,897.43	7,742.06	104.33	109.92	90.40	-4,957.45	-1,234.27	3,448.61	3,236.23	212.38	16.238		
14,900.00	7,730.00	13,937.00	7,741.78	105.94	110.60	90.40	-4,996.98	-1,232.55	3,443.98	3,229.48	214.50	16.056		
15,000.00	7,730.00	13,976.14	7,741.28	107.56	111.27	90.39	-5,036.11	-1,231.54	3,441.11	3,224.55	216.56	15.890		
15,100.00	7,730.00	14,026.00	7,740.38	109.18	112.13	90.37	-5,085.96	-1,231.36	3,440.15	3,221.34	218.80	15.723		
15,116.95	7,730.00	14,026.00	7,740.38	109.46	112.13	90.37	-5,085.96	-1,231.36	3,440.10	3,221.12	218.99	15.709		
15,200.00	7,730.00	14,083.87	7,739.11	110.81	113.11	90.35	-5,143.81	-1,231.94	3,440.56	3,219.38	221.19	15.555		
15,300.00	7,730.00	14,215.93	7,735.93	112.44	115.37	90.30	-5,275.82	-1,232.82	3,440.89	3,215.60	225.29	15.273		
15,319.47	7,730.00	14,228.57	7,735.68	112.76	115.59	90.29	-5,288.47	-1,232.85	3,440.87	3,215.08	225.79	15.240		
15,400.00	7,730.00	14,280.91	7,735.18	114.08	116.48	90.29	-5,340.81	-1,233.24	3,441.20	3,213.36	227.84	15.104		
15,500.00	7,730.00	14,384.77	7,735.86	115.72	118.26	90.30	-5,444.65	-1,234.49	3,442.07	3,210.76	231.31	14.881		
15,600.00	7,730.00	14,509.46	7,737.54	117.36	120.40	90.33	-5,569.33	-1,235.37	3,442.44	3,207.18	235.27	14.632		
15,700.00	7,730.00	14,655.23	7,739.90	119.00	122.91	90.36	-5,715.08	-1,234.95	3,441.85	3,202.15	239.71	14.358		
15,800.00	7,730.00	14,726.40	7,740.61	120.65	124.13	90.38	-5,786.24	-1,234.58	3,440.98	3,198.53	242.45	14.193		
15,900.00	7,730.00	14,822.40	7,739.75	122.30	125.79	90.36	-5,882.24	-1,234.54	3,440.59	3,194.84	245.75	14.000		
16,000.00	7,730.00	14,928.24	7,738.05	123.96	127.61	90.33	-5,988.06	-1,234.42	3,440.12	3,190.84	249.28	13.800		
16,100.00	7,730.00	15,038.92	7,737.92	125.61	129.52	90.33	-6,098.74	-1,234.16	3,439.56	3,186.63	252.93	13.599		
16,200.00	7,730.00	15,141.89	7,737.79	127.27	131.30	90.33	-6,201.70	-1,233.30	3,438.38	3,181.97	256.41	13.410		
16,300.00	7,730.00	15,226.80	7,739.96	128.94	132.77	90.37	-6,286.58	-1,233.05	3,437.74	3,178.26	259.48	13.249		
16,363.48	7,730.00	15,273.00	7,741.13	129.99	133.57	90.39	-6,332.77	-1,232.97	3,437.46	3,176.21	261.25	13.158		
16,400.00	7,730.00	15,295.84	7,741.63	130.60	133.96	90.39	-6,355.60	-1,233.03	3,437.47	3,175.30	262.17	13.112		
16,500.00	7,730.00	15,338.23	7,742.38	132.27	134.69	90.41	-6,397.98	-1,233.69	3,438.70	3,174.52	264.18	13.017		
16,600.00	7,730.00	15,387.59	7,743.00	133.94	135.54	90.42	-6,447.31	-1,235.29	3,441.56	3,175.27	266.29	12.924		
16,700.00	7,730.00	15,451.00	7,743.66	135.61	136.63	90.43	-6,510.65	-1,238.16	3,445.70	3,176.97	268.73	12.822		
16,800.00	7,730.00	15,647.56	7,745.95	137.28	140.00	90.46	-6,707.03	-1,245.87	3,449.68	3,175.05	274.63	12.561		
16,900.00	7,730.00	15,756.55	7,749.17	138.96	141.88	90.52	-6,815.95	-1,248.13	3,451.44	3,173.16	278.28	12.403		
17,000.00	7,730.00	15,887.43	7,752.58	140.64	144.14	90.57	-6,946.77	-1,249.96	3,452.53	3,170.06	282.47	12.223		
17,100.00	7,730.00	15,979.55	7,755.68	142.32	145.74	90.63	-7,038.84	-1,250.90	3,453.25	3,167.53	285.72	12.086		
17,200.00	7,730.00	16,097.67	7,759.50	144.00	147.79	90.69	-7,156.88	-1,251.91	3,453.78	3,164.19	289.60	11.926		
17,300.00	7,730.00	16,180.86	7,760.97	145.69	149.23	90.71	-7,240.06	-1,252.59	3,454.30	3,161.68	292.63	11.804		
17,400.00	7,730.00	16,253.00	7,763.14	147.37	150.48	90.75	-7,312.16	-1,253.83	3,455.67	3,160.29	295.38	11.699		
17,500.00	7,730.00	16,363.30	7,768.53	149.06	152.39	90.84	-7,422.30	-1,255.84	3,457.23	3,158.15	299.08	11.560		
17,600.00	7,730.00	16,451.51	7,772.92	150.75	153.92	90.91	-7,510.39	-1,257.45	3,458.78	3,156.55	302.23	11.444		
17,700.00	7,730.00	16,555.95	7,777.44	152.44	155.73	90.98	-7,614.71	-1,259.47	3,460.45	3,154.67	305.79	11.317		
17,800.00	7,730.00	16,662.18	7,781.45	154.13	157.57	91.05	-7,720.85	-1,261.28	3,461.88	3,152.49	309.39	11.189		
17,900.00	7,730.00	16,912.99	7,789.63	155.83	161.95	91.19	-7,971.47	-1,258.52	3,459.61	3,143.25	316.36	10.936		
18,000.00	7,730.00	17,063.07	7,792.66	157.52	164.58	91.24	-8,121.44	-1,253.61	3,456.10	3,135.23	320.87	10.771		
18,100.00	7,730.00	17,151.83	7,793.61	159.22	166.13	91.26	-8,210.13	-1,250.21	3,451.94	3,127.83	324.11	10.650		
18,200.00	7,730.00	17,281.66	7,794.65	160.92	168.41	91.28	-8,339.84	-1,244.74	3,447.40	3,119.22	328.18	10.504		
18,300.00	7,730.00	17,340.00	7,795.17	162.62	169.43	91.29	-8,398.12	-1,242.03	3,442.69	3,111.88	330.81	10.407		
18,400.00	7,730.00	17,340.00	7,795.17	164.32	169.43	91.29	-8,398.12	-1,242.03	3,440.39	3,108.32	332.07	10.360		
18,426.22	7,730.00	17,340.00	7,795.17	164.76	169.43	91.29	-8,398.12	-1,242.03	3,440.27	3,107.91	332.36	10.351 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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.92	786.89	-1,041.02	1,305.00					
100.00	100.00	91.15	91.15	0.13	0.14	-52.92	786.74	-1,041.03	1,304.88	1,304.60	0.28	4,714.724		
200.00	200.00	193.57	193.57	0.49	0.30	-52.94	786.24	-1,041.08	1,304.62	1,303.83	0.80	1,640.842		
295.24	295.24	284.26	284.26	0.83	0.66	-52.96	785.77	-1,041.29	1,304.50	1,303.00	1.49	873.303 CC		
300.00	300.00	288.85	288.84	0.85	0.68	-52.96	785.75	-1,041.30	1,304.50	1,302.97	1.53	854.170		
400.00	400.00	387.42	387.42	1.21	1.02	-52.98	785.40	-1,041.68	1,304.59	1,302.36	2.23	584.355		
500.00	500.00	487.00	486.99	1.57	1.37	-52.99	785.32	-1,041.91	1,304.73	1,301.79	2.94	443.917		
600.00	600.00	583.81	583.80	1.93	1.71	-53.03	784.82	-1,042.61	1,304.99	1,301.36	3.64	358.631 ES		
700.00	700.00	658.54	658.52	2.29	1.97	-53.05	785.11	-1,043.65	1,306.34	1,302.08	4.26	306.717		
800.00	800.00	734.48	734.38	2.64	2.24	-52.95	788.34	-1,044.32	1,309.61	1,304.73	4.88	268.428		
900.00	900.00	807.05	806.69	3.00	2.49	-52.74	794.44	-1,044.37	1,314.77	1,309.28	5.49	239.693		
1,000.00	1,000.00	887.52	886.61	3.36	2.78	-52.42	803.77	-1,044.48	1,321.92	1,315.79	6.13	215.812		
1,100.00	1,100.00	980.31	978.63	3.72	3.12	-52.02	815.73	-1,044.70	1,330.03	1,323.22	6.82	195.084		
1,200.00	1,200.00	1,071.96	1,069.39	4.08	3.47	-51.58	828.45	-1,044.59	1,338.59	1,331.07	7.51	178.166		
1,300.00	1,299.98	1,161.08	1,157.48	4.43	3.83	-98.12	841.99	-1,044.37	1,348.19	1,339.98	8.20	164.359		
1,400.00	1,399.84	1,252.17	1,247.38	4.79	4.20	-97.62	856.63	-1,044.27	1,359.02	1,350.12	8.90	152.644		
1,500.00	1,499.45	1,349.45	1,343.39	5.15	4.60	-97.24	872.28	-1,044.67	1,370.73	1,361.09	9.64	142.206		
1,600.00	1,598.70	1,436.40	1,429.16	5.51	4.96	-96.98	886.59	-1,045.18	1,383.27	1,372.93	10.34	133.783		
1,700.00	1,697.47	1,519.83	1,511.32	5.89	5.32	-96.80	901.00	-1,046.27	1,397.29	1,386.25	11.04	126.586		
1,800.00	1,795.62	1,636.98	1,626.68	6.28	5.83	-96.84	921.33	-1,048.07	1,412.03	1,400.12	11.91	118.561		
1,900.00	1,893.06	1,734.86	1,723.34	6.69	6.24	-97.00	936.67	-1,049.63	1,426.16	1,413.45	12.71	112.198		
2,000.00	1,989.64	1,813.63	1,801.10	7.13	6.58	-97.18	949.03	-1,051.64	1,441.58	1,428.13	13.45	107.179		
2,100.00	2,085.27	1,943.50	1,929.58	7.61	7.12	-97.88	967.70	-1,054.75	1,456.58	1,442.12	14.45	100.784		
2,200.00	2,179.82	2,031.51	2,016.80	8.12	7.49	-98.40	979.26	-1,057.18	1,472.07	1,456.77	15.30	96.235		
2,300.00	2,273.17	2,132.96	2,117.30	8.67	7.91	-99.15	992.70	-1,060.42	1,488.90	1,472.66	16.24	91.675		
2,400.00	2,365.21	2,277.14	2,260.35	9.27	8.50	-100.49	1,010.52	-1,062.28	1,504.91	1,487.49	17.42	86.392		
2,500.00	2,455.84	2,375.65	2,358.20	9.92	8.89	-101.41	1,021.95	-1,061.87	1,520.37	1,501.92	18.44	82.442		
2,580.62	2,527.80	2,450.83	2,432.90	10.49	9.19	-102.15	1,030.43	-1,061.42	1,533.59	1,514.31	19.28	79.542		
2,600.00	2,544.97	2,468.28	2,450.24	10.63	9.26	-102.39	1,032.38	-1,061.33	1,536.91	1,517.43	19.48	78.885		
2,700.00	2,633.58	2,561.39	2,542.75	11.37	9.63	-103.66	1,042.89	-1,060.74	1,554.49	1,533.94	20.55	75.634		
2,800.00	2,722.19	2,664.42	2,644.95	12.13	10.05	-104.97	1,055.77	-1,058.71	1,572.33	1,550.64	21.69	72.491		
2,900.00	2,810.80	2,737.37	2,717.15	12.91	10.35	-105.84	1,066.02	-1,057.02	1,591.28	1,568.57	22.71	70.083		
3,000.00	2,899.41	2,791.20	2,770.36	13.71	10.58	-106.46	1,074.21	-1,056.53	1,612.54	1,588.91	23.63	68.249		
3,100.00	2,988.02	2,852.02	2,830.34	14.52	10.85	-107.15	1,084.23	-1,057.28	1,636.58	1,612.01	24.57	66.596		
3,200.00	3,076.63	2,936.47	2,913.61	15.34	11.22	-108.10	1,098.14	-1,059.27	1,662.19	1,636.54	25.65	64.807		
3,300.00	3,165.24	3,036.43	3,012.27	16.16	11.65	-109.22	1,113.96	-1,061.83	1,688.28	1,661.48	26.80	62.985		
3,400.00	3,253.85	3,140.85	3,115.53	17.00	12.10	-110.39	1,129.37	-1,064.25	1,714.33	1,686.36	27.98	61.275		
3,500.00	3,342.46	3,245.26	3,218.98	17.84	12.54	-111.56	1,143.27	-1,066.44	1,740.25	1,711.11	29.14	59.725		
3,600.00	3,431.07	3,351.21	3,324.16	18.69	12.97	-112.75	1,155.95	-1,068.33	1,766.03	1,735.74	30.29	58.304		
3,700.00	3,519.68	3,443.88	3,416.16	19.55	13.35	-113.76	1,166.96	-1,069.52	1,791.92	1,760.55	31.37	57.114		
3,800.00	3,608.29	3,536.08	3,507.45	20.40	13.73	-114.68	1,179.79	-1,070.03	1,818.33	1,785.87	32.46	56.025		
3,900.00	3,696.90	3,634.20	3,604.59	21.26	14.14	-115.62	1,193.66	-1,070.32	1,845.03	1,811.46	33.57	54.957		
4,000.00	3,785.51	3,743.31	3,712.90	22.13	14.59	-116.70	1,206.80	-1,070.59	1,871.57	1,836.85	34.72	53.901		
4,100.00	3,874.12	3,832.70	3,801.82	23.00	14.94	-117.60	1,215.98	-1,070.73	1,898.04	1,862.30	35.75	53.099		
4,200.00	3,962.73	3,898.00	3,866.82	23.87	15.19	-118.27	1,222.14	-1,071.63	1,925.89	1,889.27	36.62	52.587		
4,300.00	4,051.34	3,972.24	3,940.73	24.74	15.47	-119.03	1,228.88	-1,073.55	1,955.24	1,917.71	37.53	52.101		
4,400.00	4,139.95	4,086.72	4,054.80	25.62	15.91	-120.21	1,238.00	-1,076.59	1,984.93	1,946.30	38.63	51.382		
4,500.00	4,228.56	4,154.69	4,122.57	26.49	16.16	-120.90	1,242.88	-1,078.45	2,015.05	1,975.58	39.47	51.054		
4,600.00	4,317.17	4,245.77	4,213.24	27.37	16.51	-121.76	1,251.08	-1,081.16	2,046.22	2,005.78	40.44	50.599		
4,700.00	4,405.78	4,397.36	4,363.48	28.25	17.13	-122.96	1,271.00	-1,081.38	2,075.73	2,033.92	41.81	49.645		
4,800.00	4,494.39	4,481.56	4,446.92	29.13	17.48	-123.58	1,282.32	-1,080.54	2,104.83	2,062.04	42.79	49.195		
4,900.00	4,583.00	4,551.00	4,515.68	30.02	17.77	-124.09	1,292.02	-1,080.68	2,135.29	2,091.63	43.66	48.905		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,614.35	4,578.40	30.90	18.04	-124.54	1,300.88	-1,081.57	2,167.11	2,122.62	44.49	48.714		
5,100.00	4,760.22	4,700.47	4,663.82	31.79	18.39	-125.17	1,311.67	-1,083.44	2,199.78	2,154.35	45.43	48.419		
5,200.00	4,848.83	4,785.01	4,747.81	32.67	18.73	-125.82	1,320.98	-1,085.55	2,232.86	2,186.51	46.35	48.175		
5,300.00	4,937.44	4,874.20	4,836.21	33.56	19.11	-126.43	1,332.55	-1,087.82	2,266.50	2,219.19	47.31	47.906		
5,400.00	5,026.05	4,960.36	4,921.06	34.45	19.49	-126.91	1,347.42	-1,089.60	2,300.37	2,252.08	48.29	47.636		
5,500.00	5,114.66	5,048.89	5,008.01	35.34	19.89	-127.36	1,363.92	-1,091.60	2,334.72	2,285.42	49.30	47.359		
5,600.00	5,203.27	5,146.47	5,104.16	36.23	20.33	-127.89	1,380.40	-1,093.90	2,369.14	2,318.79	50.35	47.053		
5,700.00	5,291.88	5,249.35	5,206.04	37.12	20.76	-128.51	1,394.46	-1,096.24	2,403.40	2,352.00	51.40	46.762		
5,800.00	5,380.50	5,346.87	5,303.02	38.01	21.15	-129.16	1,404.57	-1,098.31	2,437.50	2,385.14	52.36	46.555		
5,900.00	5,469.11	5,432.87	5,388.62	38.90	21.48	-129.74	1,412.63	-1,100.17	2,471.83	2,418.60	53.23	46.437		
6,000.00	5,557.72	5,510.92	5,466.05	39.79	21.80	-130.19	1,422.20	-1,101.99	2,506.72	2,452.64	54.08	46.352		
6,100.00	5,646.33	5,594.87	5,548.96	40.68	22.16	-130.61	1,435.18	-1,104.19	2,542.18	2,487.19	54.99	46.226		
6,200.00	5,734.94	5,685.49	5,638.69	41.58	22.54	-131.09	1,447.49	-1,106.77	2,577.94	2,522.01	55.93	46.089		
6,300.00	5,823.55	5,867.43	5,819.50	42.47	23.27	-132.13	1,467.52	-1,109.23	2,612.60	2,555.17	57.43	45.492		
6,400.00	5,912.16	5,992.04	5,943.06	43.36	23.78	-132.75	1,483.54	-1,107.38	2,644.64	2,586.07	58.57	45.154		
6,500.00	6,000.77	6,065.00	6,015.35	44.26	24.08	-133.10	1,493.39	-1,106.39	2,677.03	2,617.64	59.39	45.075		
6,600.00	6,089.38	6,117.25	6,067.15	45.15	24.30	-133.35	1,500.21	-1,106.27	2,710.57	2,650.50	60.06	45.129		
6,700.00	6,177.99	6,179.29	6,128.73	46.05	24.55	-133.66	1,507.70	-1,106.89	2,745.41	2,684.63	60.78	45.169		
6,800.00	6,266.60	6,253.05	6,201.90	46.94	24.85	-134.01	1,516.93	-1,108.21	2,781.14	2,719.57	61.57	45.170		
6,900.00	6,355.21	6,340.42	6,288.63	47.84	25.21	-134.42	1,527.36	-1,110.14	2,817.40	2,754.96	62.45	45.117		
7,000.00	6,443.82	6,449.75	6,397.18	48.74	25.65	-134.94	1,540.19	-1,111.81	2,853.14	2,789.67	63.47	44.955		
7,100.00	6,532.43	6,511.00	6,458.05	49.63	25.90	-135.23	1,546.90	-1,113.09	2,889.60	2,825.45	64.15	45.047		
7,200.00	6,621.04	6,578.40	6,525.12	50.53	26.16	-135.56	1,553.28	-1,115.07	2,927.03	2,862.19	64.84	45.141		
7,300.00	6,709.65	6,656.01	6,602.43	51.42	26.45	-135.96	1,559.49	-1,117.78	2,965.19	2,899.60	65.59	45.209		
7,400.00	6,798.26	6,868.49	6,814.08	52.32	27.26	-137.00	1,577.73	-1,120.25	3,000.83	2,933.61	67.22	44.644		
7,500.00	6,886.87	6,928.15	6,873.59	53.22	27.47	-137.29	1,582.08	-1,120.27	3,036.23	2,968.39	67.85	44.751		
7,600.00	6,975.48	6,993.61	6,938.95	54.12	27.70	-137.64	1,585.28	-1,120.82	3,072.68	3,004.21	68.47	44.874		
7,656.30	7,025.36	7,032.43	6,977.77	54.62	27.82	-137.88	1,585.44	-1,121.22	3,093.57	3,024.76	68.81	44.957		
7,700.00	7,064.54	7,135.00	7,079.84	55.00	28.07	-147.47	1,576.56	-1,120.71	3,109.61	3,040.31	69.29	44.876		
7,750.00	7,110.29	7,135.00	7,079.84	55.40	28.07	-159.47	1,576.56	-1,120.71	3,127.85	3,058.46	69.39	45.077		
7,800.00	7,156.67	7,166.53	7,110.79	55.75	28.12	-173.53	1,570.57	-1,120.18	3,146.14	3,076.62	69.52	45.256		
7,850.00	7,203.34	7,180.74	7,124.64	56.05	28.14	171.46	1,567.39	-1,120.12	3,164.78	3,095.20	69.58	45.486		
7,900.00	7,249.95	7,195.02	7,138.48	56.30	28.16	156.72	1,563.89	-1,120.17	3,183.46	3,113.85	69.61	45.735		
7,950.00	7,296.14	7,224.00	7,166.32	56.50	28.21	143.44	1,555.86	-1,120.63	3,202.14	3,132.51	69.64	45.984		
8,000.00	7,341.56	7,224.00	7,166.32	56.64	28.21	132.22	1,555.86	-1,120.63	3,220.36	3,150.77	69.59	46.278		
8,050.00	7,385.86	7,224.00	7,166.32	56.74	28.21	122.95	1,555.86	-1,120.63	3,238.40	3,168.88	69.52	46.585		
8,100.00	7,428.71	7,224.00	7,166.32	56.79	28.21	115.33	1,555.86	-1,120.63	3,256.12	3,186.70	69.43	46.901		
8,150.00	7,469.77	7,262.28	7,202.54	56.80	28.24	109.24	1,543.59	-1,122.04	3,272.60	3,203.22	69.39	47.164		
8,200.00	7,508.75	7,274.85	7,214.30	56.77	28.25	104.13	1,539.19	-1,122.72	3,288.71	3,219.42	69.30	47.458		
8,250.00	7,545.33	7,313.00	7,249.50	56.70	28.29	100.06	1,524.75	-1,125.45	3,304.36	3,235.12	69.24	47.725		
8,300.00	7,579.25	7,313.00	7,249.50	56.59	28.29	96.43	1,524.75	-1,125.45	3,318.46	3,249.33	69.12	48.007		
8,350.00	7,610.24	7,313.00	7,249.50	56.45	28.29	93.36	1,524.75	-1,125.45	3,331.71	3,262.70	69.01	48.277		
8,400.00	7,638.06	7,313.00	7,249.50	56.28	28.29	90.75	1,524.75	-1,125.45	3,344.03	3,275.13	68.90	48.532		
8,450.00	7,662.52	7,343.42	7,277.11	56.09	28.31	88.89	1,512.28	-1,128.19	3,355.00	3,286.16	68.84	48.736		
8,500.00	7,683.41	7,359.02	7,291.16	55.88	28.32	87.25	1,505.66	-1,129.73	3,364.79	3,296.02	68.77	48.927		
8,550.00	7,700.59	7,373.86	7,304.43	55.64	28.33	85.96	1,499.22	-1,131.28	3,373.29	3,304.57	68.72	49.090		
8,600.00	7,713.91	7,402.00	7,329.39	55.39	28.34	85.16	1,486.61	-1,134.43	3,380.55	3,311.86	68.69	49.214		
8,650.00	7,723.29	7,402.00	7,329.39	55.14	28.34	84.30	1,486.61	-1,134.43	3,386.34	3,317.68	68.65	49.325		
8,700.00	7,728.64	7,761.19	7,604.96	54.87	28.39	88.12	1,263.79	-1,156.67	3,389.00	3,320.82	68.18	49.705		
8,740.83	7,730.00	7,868.50	7,661.55	54.65	28.41	89.03	1,172.67	-1,155.77	3,388.30	3,320.49	67.81	49.970		
8,800.00	7,730.00	7,931.89	7,691.90	54.33	28.44	89.54	1,117.04	-1,154.45	3,386.28	3,318.64	67.64	50.062		
8,900.00	7,730.00	8,241.67	7,785.70	53.82	29.03	91.14	824.84	-1,137.50	3,380.85	3,313.91	66.93	50.511		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	8,293.00	7,789.70	53.33	29.19	91.20	773.80	-1,134.00	3,373.19	3,306.14	67.05	50.312		
9,100.00	7,730.00	8,303.37	7,790.20	52.87	29.23	91.21	763.46	-1,133.51	3,367.03	3,299.74	67.29	50.040		
9,200.00	7,730.00	8,390.83	7,792.11	52.44	29.56	91.25	676.11	-1,129.58	3,362.24	3,294.75	67.49	49.821		
9,300.00	7,730.00	8,471.00	7,792.12	52.03	29.92	91.25	596.00	-1,126.38	3,357.92	3,290.10	67.82	49.515		
9,400.00	7,730.00	8,537.28	7,792.33	51.65	30.27	91.25	529.76	-1,124.26	3,354.39	3,286.13	68.27	49.137		
9,500.00	7,730.00	8,603.14	7,792.97	51.29	30.66	91.26	463.92	-1,122.82	3,351.90	3,283.09	68.81	48.713		
9,600.00	7,730.00	8,673.22	7,793.15	50.95	31.11	91.27	393.84	-1,122.02	3,350.39	3,280.93	69.46	48.238		
9,700.00	7,730.00	8,755.95	7,791.97	50.64	31.70	91.25	311.13	-1,121.68	3,349.60	3,279.34	70.26	47.677		
9,800.00	7,730.00	8,855.67	7,788.21	50.35	32.49	91.18	211.48	-1,121.50	3,349.00	3,277.72	71.27	46.988		
9,900.00	7,730.00	8,939.69	7,784.53	50.09	33.21	91.12	127.54	-1,121.48	3,348.56	3,276.23	72.34	46.292		
9,908.84	7,730.00	8,945.42	7,784.32	50.07	33.27	91.12	121.81	-1,121.50	3,348.56	3,276.13	72.43	46.233		
10,000.00	7,730.00	9,006.00	7,782.80	49.86	33.81	91.09	61.26	-1,122.03	3,349.00	3,275.62	73.37	45.642		
10,100.00	7,730.00	9,073.92	7,781.06	49.65	34.46	91.06	-6.63	-1,123.26	3,350.41	3,275.90	74.51	44.964		
10,200.00	7,730.00	9,339.02	7,761.85	49.48	37.27	90.73	-270.89	-1,122.70	3,349.59	3,272.00	77.59	43.170		
10,300.00	7,730.00	9,389.47	7,760.90	49.35	37.85	90.72	-321.32	-1,121.60	3,347.17	3,268.34	78.84	42.457		
10,400.00	7,730.00	9,451.00	7,762.22	49.27	38.56	90.74	-382.83	-1,121.74	3,346.74	3,266.49	80.25	41.702		
10,413.47	7,730.00	9,451.00	7,762.22	49.26	38.56	90.74	-382.83	-1,121.74	3,346.72	3,266.36	80.36	41.649		
10,500.00	7,730.00	9,482.25	7,763.63	49.26	38.94	90.76	-414.03	-1,122.30	3,347.65	3,266.28	81.36	41.144		
10,600.00	7,730.00	9,564.25	7,767.57	49.32	39.93	90.83	-495.92	-1,124.15	3,349.62	3,266.49	83.13	40.294		
10,700.00	7,730.00	9,663.86	7,770.88	49.51	41.16	90.89	-595.45	-1,126.66	3,351.86	3,266.66	85.20	39.342		
10,800.00	7,730.00	9,827.71	7,773.70	49.83	43.27	90.93	-759.23	-1,129.55	3,353.43	3,265.17	88.26	37.996		
10,900.00	7,730.00	9,944.65	7,775.95	50.31	44.83	90.97	-876.14	-1,129.86	3,353.37	3,262.57	90.80	36.932		
10,987.12	7,730.00	10,024.95	7,776.10	50.86	45.93	90.98	-956.45	-1,130.00	3,353.23	3,260.48	92.75	36.152		
11,000.00	7,730.00	10,035.82	7,776.20	50.96	46.08	90.98	-967.31	-1,130.04	3,353.24	3,260.21	93.03	36.045		
11,100.00	7,730.00	10,122.85	7,777.89	51.75	47.29	91.01	-1,054.33	-1,130.54	3,353.51	3,258.25	95.26	35.203		
11,200.00	7,730.00	10,226.40	7,779.68	52.66	48.75	91.04	-1,157.85	-1,131.37	3,354.00	3,256.18	97.82	34.288		
11,300.00	7,730.00	10,317.36	7,780.19	53.67	50.06	91.05	-1,248.81	-1,132.02	3,354.39	3,254.17	100.22	33.470		
11,400.00	7,730.00	10,402.19	7,782.21	54.75	51.29	91.08	-1,333.61	-1,132.99	3,355.23	3,252.66	102.57	32.711		
11,500.00	7,730.00	10,479.12	7,783.68	55.89	52.41	91.10	-1,410.52	-1,134.26	3,356.60	3,251.78	104.82	32.023		
11,600.00	7,730.00	10,562.72	7,783.53	57.07	53.65	91.10	-1,494.09	-1,136.31	3,358.69	3,251.48	107.21	31.328		
11,700.00	7,730.00	10,649.96	7,785.09	58.30	54.95	91.13	-1,581.28	-1,138.62	3,361.04	3,251.34	109.71	30.637		
11,800.00	7,730.00	10,699.00	7,786.06	59.55	55.68	91.14	-1,630.29	-1,140.16	3,364.15	3,252.64	111.51	30.170		
11,900.00	7,730.00	11,126.38	7,784.98	60.84	62.26	91.12	-2,057.23	-1,141.20	3,366.09	3,245.63	120.45	27.945		
12,000.00	7,730.00	11,181.54	7,785.92	62.15	63.13	91.14	-2,112.31	-1,138.54	3,361.06	3,238.49	122.57	27.421		
12,100.00	7,730.00	11,233.00	7,787.01	63.49	63.95	91.16	-2,163.74	-1,136.97	3,357.61	3,233.00	124.62	26.943		
12,200.00	7,730.00	11,316.23	7,789.13	64.85	65.27	91.20	-2,246.92	-1,135.22	3,355.19	3,227.91	127.28	26.361		
12,300.00	7,730.00	11,393.43	7,790.04	66.22	66.51	91.21	-2,324.10	-1,133.92	3,353.21	3,223.37	129.83	25.827		
12,400.00	7,730.00	11,520.37	7,789.88	67.62	68.54	91.21	-2,451.02	-1,131.82	3,351.21	3,217.82	133.39	25.123		
12,500.00	7,730.00	11,609.70	7,793.93	69.03	69.99	91.28	-2,540.23	-1,129.98	3,348.92	3,212.67	136.25	24.580		
12,600.00	7,730.00	11,693.20	7,799.92	70.45	71.34	91.39	-2,623.50	-1,128.56	3,347.04	3,208.04	139.01	24.078		
12,700.00	7,730.00	11,773.98	7,806.74	71.90	72.66	91.50	-2,703.99	-1,127.60	3,345.72	3,204.00	141.72	23.608		
12,800.00	7,730.00	11,862.28	7,812.99	73.35	74.10	91.61	-2,792.06	-1,126.99	3,344.88	3,200.28	144.60	23.132		
12,900.00	7,730.00	11,979.35	7,817.94	74.81	76.02	91.70	-2,909.01	-1,126.26	3,344.05	3,195.95	148.10	22.580		
13,000.00	7,730.00	12,107.09	7,819.45	76.29	78.12	91.72	-3,036.73	-1,124.50	3,342.34	3,190.51	151.83	22.013		
13,100.00	7,730.00	12,224.20	7,816.72	77.78	80.05	91.68	-3,153.78	-1,122.32	3,340.07	3,184.72	155.35	21.500		
13,200.00	7,730.00	12,259.21	7,815.21	79.28	80.63	91.65	-3,188.76	-1,122.05	3,338.63	3,181.49	157.15	21.246		
13,233.50	7,730.00	12,273.34	7,814.56	79.79	80.86	91.64	-3,202.87	-1,122.08	3,338.54	3,180.75	157.79	21.158		
13,300.00	7,730.00	12,302.00	7,813.17	80.79	81.34	91.62	-3,231.50	-1,122.39	3,338.92	3,179.85	159.07	20.991		
13,400.00	7,730.00	12,422.95	7,808.45	82.31	83.34	91.53	-3,352.35	-1,123.62	3,339.44	3,176.73	162.71	20.524		
13,500.00	7,730.00	12,528.67	7,807.74	83.84	85.09	91.52	-3,458.06	-1,124.84	3,340.26	3,174.22	166.04	20.117		
13,600.00	7,730.00	12,677.37	7,805.97	85.37	87.56	91.49	-3,606.72	-1,124.47	3,339.52	3,169.18	170.34	19.605		
13,700.00	7,730.00	12,748.00	7,804.91	86.92	88.74	91.47	-3,677.34	-1,124.10	3,338.68	3,165.76	172.93	19.307		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 OWSSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,707.99	7,730.00	12,748.00	7,804.91	87.04	88.74	91.47	-3,677.34	-1,124.10	3,338.67	3,165.66	173.01	19.298		
13,800.00	7,730.00	12,792.50	7,805.15	88.47	89.49	91.48	-3,721.85	-1,124.41	3,339.17	3,164.26	174.91	19.091		
13,900.00	7,730.00	12,837.00	7,806.04	90.03	90.23	91.49	-3,766.31	-1,125.64	3,341.53	3,164.67	176.86	18.894		
14,000.00	7,730.00	12,909.55	7,807.95	91.59	91.43	91.52	-3,838.78	-1,128.53	3,345.19	3,165.74	179.45	18.641		
14,100.00	7,730.00	12,982.09	7,809.39	93.16	92.64	91.55	-3,911.23	-1,131.83	3,349.46	3,167.43	182.03	18.401		
14,200.00	7,730.00	13,212.88	7,811.73	94.74	96.50	91.59	-4,141.89	-1,138.17	3,351.45	3,163.02	188.43	17.786		
14,300.00	7,730.00	13,550.00	7,819.71	96.33	102.22	91.73	-4,478.55	-1,130.83	3,349.63	3,152.75	196.88	17.014		
14,400.00	7,730.00	13,598.32	7,822.03	97.92	103.05	91.77	-4,526.74	-1,128.26	3,344.13	3,144.97	199.16	16.791		
14,500.00	7,730.00	13,639.00	7,823.71	99.51	103.75	91.80	-4,567.36	-1,126.71	3,340.23	3,138.99	201.24	16.598		
14,600.00	7,730.00	13,687.08	7,825.18	101.11	104.57	91.82	-4,615.40	-1,125.70	3,337.98	3,134.55	203.42	16.409		
14,686.95	7,730.00	13,728.00	7,825.86	102.51	105.26	91.83	-4,656.32	-1,125.59	3,337.43	3,132.17	205.27	16.259		
14,700.00	7,730.00	13,731.43	7,825.90	102.72	105.32	91.84	-4,659.75	-1,125.61	3,337.46	3,131.98	205.48	16.242		
14,800.00	7,730.00	14,800.00	7,825.62	104.33	123.53	91.83	-4,802.91	-1,125.95	3,337.45	3,111.88	225.57	14.795		
14,900.00	7,730.00	13,965.20	7,825.27	105.94	109.30	91.83	-4,893.49	-1,124.94	3,336.04	3,123.11	212.94	15.667		
15,000.00	7,730.00	14,065.12	7,825.87	107.56	111.01	91.84	-4,993.41	-1,125.03	3,335.82	3,119.53	216.29	15.423		
15,100.00	7,730.00	14,154.76	7,826.74	109.18	112.54	91.85	-5,083.05	-1,124.66	3,335.10	3,115.70	219.40	15.201		
15,131.95	7,730.00	14,173.00	7,827.30	109.70	112.85	91.86	-5,101.28	-1,124.64	3,335.01	3,114.86	220.15	15.149		
15,200.00	7,730.00	14,207.79	7,828.26	110.81	113.44	91.88	-5,136.05	-1,124.85	3,335.31	3,113.66	221.64	15.048		
15,300.00	7,730.00	15,300.00	7,828.64	112.44	132.06	91.88	-5,228.75	-1,126.72	3,336.95	3,095.09	241.85	13.797		
15,400.00	7,730.00	14,481.40	7,825.37	114.08	118.12	91.83	-5,409.58	-1,126.27	3,335.77	3,105.67	230.10	14.497		
15,500.00	7,730.00	14,586.89	7,824.75	115.72	119.93	91.82	-5,515.06	-1,125.84	3,335.04	3,101.43	233.61	14.276		
15,600.00	7,730.00	14,668.15	7,826.10	117.36	121.33	91.84	-5,596.30	-1,124.84	3,333.60	3,097.04	236.56	14.092		
15,666.77	7,730.00	14,708.00	7,827.07	118.46	122.02	91.86	-5,636.14	-1,124.82	3,333.36	3,095.18	238.18	13.995		
15,700.00	7,730.00	14,727.84	7,827.57	119.00	122.36	91.87	-5,655.98	-1,124.93	3,333.45	3,094.46	238.99	13.948		
15,800.00	7,730.00	14,801.41	7,829.01	120.65	123.62	91.89	-5,729.52	-1,125.74	3,334.27	3,092.54	241.73	13.793		
15,900.00	7,730.00	14,902.58	7,828.86	122.30	125.35	91.89	-5,830.69	-1,127.10	3,335.26	3,090.12	245.14	13.605		
16,000.00	7,730.00	14,960.97	7,828.74	123.96	126.35	91.89	-5,889.06	-1,128.35	3,337.05	3,089.57	247.48	13.484		
16,100.00	7,730.00	15,050.14	7,829.52	125.61	127.88	91.90	-5,978.19	-1,131.03	3,339.73	3,089.14	250.59	13.327		
16,200.00	7,730.00	15,215.78	7,829.28	127.27	130.72	91.89	-6,143.78	-1,134.89	3,341.87	3,086.24	255.63	13.073		
16,300.00	7,730.00	15,332.00	7,829.54	128.94	132.72	91.90	-6,259.99	-1,135.23	3,341.73	3,082.30	259.43	12.881		
16,312.26	7,730.00	15,353.60	7,829.51	129.14	133.09	91.90	-6,281.60	-1,135.22	3,341.64	3,081.57	260.07	12.849		
16,400.00	7,730.00	15,395.51	7,830.09	130.60	133.82	91.90	-6,323.50	-1,135.63	3,342.24	3,080.31	261.94	12.760		
16,500.00	7,730.00	15,473.99	7,832.68	132.27	135.17	91.95	-6,401.91	-1,137.39	3,344.18	3,079.38	264.80	12.629		
16,600.00	7,730.00	15,567.29	7,835.22	133.94	136.77	91.99	-6,495.15	-1,139.50	3,346.20	3,078.17	268.04	12.484		
16,700.00	7,730.00	15,702.57	7,837.53	135.61	139.10	92.03	-6,630.38	-1,142.34	3,348.07	3,075.73	272.34	12.294		
16,800.00	7,730.00	15,788.50	7,839.71	137.28	140.58	92.07	-6,716.26	-1,143.68	3,349.39	3,073.98	275.41	12.162		
16,900.00	7,730.00	16,900.00	7,840.00	138.96	159.76	92.07	-6,830.04	-1,146.19	3,351.33	3,054.95	296.38	11.308		
17,000.00	7,730.00	16,095.86	7,842.29	140.64	145.90	92.11	-7,023.55	-1,144.91	3,349.68	3,064.83	284.85	11.759		
17,100.00	7,730.00	16,159.03	7,844.20	142.32	147.00	92.14	-7,086.68	-1,144.41	3,348.64	3,061.22	287.42	11.651		
17,155.61	7,730.00	16,197.28	7,845.39	143.25	147.66	92.16	-7,124.92	-1,144.39	3,348.49	3,059.58	288.91	11.590		
17,200.00	7,730.00	16,223.00	7,846.14	144.00	148.11	92.18	-7,150.62	-1,144.50	3,348.59	3,058.61	289.98	11.548		
17,300.00	7,730.00	16,301.79	7,847.23	145.69	149.47	92.19	-7,229.40	-1,145.33	3,349.38	3,056.50	292.88	11.436		
17,400.00	7,730.00	16,387.88	7,847.34	147.37	150.96	92.20	-7,315.47	-1,146.85	3,350.81	3,054.85	295.96	11.322		
17,500.00	7,730.00	16,532.00	7,849.88	149.06	153.46	92.24	-7,459.56	-1,148.46	3,351.61	3,051.11	300.50	11.153		
17,600.00	7,730.00	16,655.63	7,855.13	150.75	155.61	92.33	-7,583.08	-1,148.75	3,351.70	3,047.18	304.52	11.007		
17,700.00	7,730.00	16,741.21	7,857.83	152.44	157.10	92.37	-7,668.61	-1,148.69	3,351.43	3,043.82	307.61	10.895		
17,748.10	7,730.00	16,802.25	7,858.89	153.25	158.16	92.39	-7,729.64	-1,148.82	3,351.42	3,041.84	309.58	10.826		
17,800.00	7,730.00	16,869.87	7,860.43	154.13	159.33	92.42	-7,797.24	-1,148.51	3,351.04	3,039.29	311.75	10.749		
17,900.00	7,730.00	16,954.67	7,862.73	155.83	160.81	92.46	-7,882.01	-1,148.10	3,350.34	3,035.51	314.83	10.642		
17,934.90	7,730.00	16,976.87	7,863.11	156.42	161.20	92.47	-7,904.20	-1,148.11	3,350.27	3,034.55	315.73	10.611		
18,000.00	7,730.00	17,025.00	7,863.27	157.52	162.03	92.47	-7,952.33	-1,148.47	3,350.51	3,032.96	317.55	10.551		
18,100.00	7,730.00	17,195.81	7,867.00	159.22	165.01	92.53	-8,123.08	-1,148.38	3,350.40	3,027.69	322.71	10.382		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,200.00	7,730.00	17,293.61	7,869.63	160.92	166.72	92.58	-8,220.83	-1,147.00	3,348.77	3,022.65	326.11	10.269	
18,300.00	7,730.00	17,399.40	7,868.99	162.62	168.56	92.57	-8,326.61	-1,145.83	3,347.30	3,017.60	329.70	10.152	
18,400.00	7,730.00	17,471.00	7,867.23	164.32	169.81	92.54	-8,398.18	-1,144.74	3,345.52	3,013.02	332.50	10.062	
18,426.22	7,730.00	17,471.00	7,867.23	164.76	169.81	92.54	-8,398.18	-1,144.74	3,345.40	3,012.63	332.77	10.053 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.65	786.88	-1,030.94	1,296.97					
100.00	100.00	88.02	88.02	0.13	0.15	-52.65	786.92	-1,030.95	1,296.96	1,296.68	0.28	4,619.242 CC		
200.00	200.00	186.91	186.91	0.49	0.31	-52.64	787.04	-1,031.01	1,297.08	1,296.28	0.80	1,613.963		
300.00	300.00	285.80	285.80	0.85	0.48	-52.64	787.26	-1,031.10	1,297.28	1,295.96	1.33	977.939		
400.00	400.00	382.01	382.01	1.21	0.76	-52.63	787.63	-1,031.24	1,297.64	1,295.67	1.97	659.370 ES		
500.00	500.00	476.92	476.91	1.57	1.10	-52.61	788.43	-1,031.51	1,298.38	1,295.71	2.67	486.888		
600.00	600.00	571.81	571.80	1.93	1.44	-52.57	789.67	-1,031.91	1,299.50	1,296.14	3.37	386.155		
700.00	700.00	674.53	674.51	2.29	1.81	-52.53	791.28	-1,032.31	1,300.77	1,296.68	4.09	317.908		
800.00	800.00	764.21	764.17	2.64	2.13	-52.50	792.69	-1,032.94	1,302.28	1,297.50	4.77	272.955		
900.00	900.00	864.58	864.51	3.00	2.49	-52.45	794.72	-1,033.83	1,304.22	1,298.73	5.49	237.605		
1,000.00	1,000.00	971.77	971.69	3.36	2.87	-52.40	796.61	-1,034.35	1,305.67	1,299.44	6.23	209.526		
1,100.00	1,100.00	1,068.99	1,068.84	3.72	3.22	-52.25	800.17	-1,033.42	1,307.14	1,300.21	6.94	188.426		
1,200.00	1,200.00	1,180.02	1,179.74	4.08	3.62	-52.02	805.13	-1,031.32	1,308.41	1,300.72	7.69	170.087		
1,300.00	1,299.98	1,284.47	1,284.03	4.43	3.99	-98.96	809.81	-1,028.33	1,309.19	1,300.77	8.42	155.447		
1,400.00	1,399.84	1,371.06	1,370.41	4.79	4.30	-98.87	814.98	-1,025.30	1,310.94	1,301.86	9.09	144.233		
1,500.00	1,499.45	1,462.12	1,461.02	5.15	4.64	-98.76	822.92	-1,021.08	1,314.04	1,304.26	9.78	134.338		
1,600.00	1,598.70	1,556.00	1,554.11	5.51	5.00	-98.65	833.68	-1,015.36	1,318.23	1,307.73	10.50	125.543		
1,700.00	1,697.47	1,646.26	1,643.24	5.89	5.35	-98.54	846.22	-1,008.72	1,323.47	1,312.25	11.23	117.900		
1,800.00	1,795.62	1,724.00	1,719.87	6.28	5.66	-98.49	858.17	-1,003.33	1,330.48	1,318.56	11.92	111.612		
1,900.00	1,893.06	1,805.73	1,800.42	6.69	5.99	-98.53	871.26	-998.79	1,339.50	1,326.84	12.65	105.849		
2,000.00	1,989.64	1,886.00	1,879.54	7.13	6.32	-98.67	884.39	-995.52	1,350.44	1,337.03	13.41	100.723		
2,100.00	2,085.27	1,963.50	1,955.94	7.61	6.64	-98.89	897.24	-993.61	1,363.43	1,349.25	14.17	96.186		
2,200.00	2,179.82	2,060.55	2,051.64	8.12	7.04	-99.36	913.34	-992.50	1,378.19	1,363.12	15.07	91.455		
2,300.00	2,273.17	2,190.64	2,179.79	8.67	7.59	-100.18	935.24	-988.23	1,392.19	1,376.02	16.17	86.084		
2,400.00	2,365.21	2,281.90	2,269.53	9.27	7.99	-100.74	951.26	-983.84	1,406.36	1,389.22	17.14	82.040		
2,500.00	2,455.84	2,377.20	2,363.24	9.92	8.40	-101.42	967.94	-979.44	1,421.69	1,403.51	18.18	78.206		
2,580.62	2,527.80	2,451.84	2,436.75	10.49	8.73	-102.03	980.59	-976.34	1,434.97	1,415.93	19.04	75.380		
2,600.00	2,544.97	2,469.81	2,454.45	10.63	8.80	-102.25	983.59	-975.63	1,438.28	1,419.03	19.25	74.730		
2,700.00	2,633.58	2,562.42	2,545.70	11.37	9.21	-103.38	998.94	-972.12	1,455.80	1,435.46	20.34	71.572		
2,800.00	2,722.19	2,715.01	2,696.08	12.13	9.87	-105.16	1,023.33	-963.59	1,472.24	1,450.49	21.75	67.695		
2,900.00	2,810.80	2,794.76	2,774.33	12.91	10.23	-105.99	1,037.03	-956.64	1,487.22	1,464.40	22.82	65.161		
3,000.00	2,899.41	2,867.30	2,845.64	13.71	10.55	-106.77	1,049.50	-952.01	1,504.49	1,480.63	23.86	63.048		
3,100.00	2,988.02	2,953.82	2,930.96	14.52	10.93	-107.74	1,063.23	-947.88	1,523.10	1,498.13	24.96	61.014		
3,200.00	3,076.63	3,075.97	3,051.82	15.34	11.45	-109.16	1,080.21	-942.89	1,542.15	1,515.92	26.23	58.799		
3,300.00	3,165.24	3,207.96	3,182.40	16.16	12.00	-110.65	1,097.03	-933.78	1,558.64	1,531.11	27.53	56.614		
3,400.00	3,253.85	3,281.45	3,254.87	17.00	12.32	-111.41	1,107.81	-927.99	1,575.71	1,547.14	28.57	55.152		
3,500.00	3,342.46	3,367.40	3,339.74	17.84	12.69	-112.30	1,120.11	-922.19	1,594.13	1,564.47	29.66	53.746		
3,600.00	3,431.07	3,461.96	3,433.04	18.69	13.10	-113.25	1,134.10	-915.90	1,613.26	1,582.47	30.79	52.396		
3,700.00	3,519.68	3,545.15	3,515.11	19.55	13.47	-114.06	1,146.65	-910.59	1,633.18	1,601.32	31.86	51.265		
3,800.00	3,608.29	3,630.24	3,599.29	20.40	13.83	-114.92	1,158.18	-906.15	1,654.09	1,621.17	32.91	50.259		
3,900.00	3,696.90	3,746.83	3,714.79	21.26	14.32	-116.12	1,172.65	-899.50	1,674.58	1,640.47	34.11	49.091		
4,000.00	3,785.51	3,815.33	3,782.46	22.13	14.61	-116.76	1,182.48	-895.52	1,696.10	1,661.04	35.07	48.366		
4,100.00	3,874.12	3,889.86	3,855.87	23.00	14.95	-117.40	1,194.76	-891.72	1,719.25	1,683.19	36.06	47.677		
4,200.00	3,962.73	3,961.03	3,925.99	23.87	15.26	-118.01	1,206.57	-888.96	1,743.87	1,706.86	37.01	47.115		
4,300.00	4,051.34	4,058.70	4,022.60	24.74	15.68	-118.89	1,220.80	-886.59	1,769.65	1,731.55	38.10	46.446		
4,400.00	4,139.95	4,159.72	4,122.34	25.62	16.12	-119.75	1,236.42	-883.18	1,795.14	1,755.93	39.21	45.778		
4,500.00	4,228.56	4,276.20	4,236.95	26.49	16.64	-120.63	1,256.38	-877.51	1,819.90	1,779.46	40.44	45.002		
4,600.00	4,317.17	4,349.06	4,308.62	27.37	16.97	-121.16	1,269.02	-874.13	1,845.25	1,803.86	41.39	44.581		
4,700.00	4,405.78	4,453.54	4,411.38	28.25	17.45	-121.90	1,287.40	-869.50	1,871.10	1,828.57	42.54	43.986		
4,800.00	4,494.39	4,529.51	4,486.15	29.13	17.79	-122.44	1,300.42	-866.27	1,897.30	1,853.81	43.49	43.628		
4,900.00	4,583.00	4,647.29	4,602.36	30.02	18.31	-123.30	1,319.08	-861.98	1,924.13	1,879.45	44.68	43.060		
5,000.00	4,671.61	4,781.33	4,734.68	30.90	18.90	-124.26	1,339.05	-854.29	1,948.96	1,903.01	45.96	42.406		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,929.92	4,880.43	31.79	19.58	-125.16	1,365.07	-841.91	1,972.17	1,924.82	47.35	41.654		
5,200.00	4,848.83	5,016.62	4,965.25	32.67	20.00	-125.65	1,380.92	-833.48	1,994.32	1,945.94	48.38	41.220		
5,300.00	4,937.44	5,095.20	5,042.32	33.56	20.36	-126.10	1,394.57	-826.48	2,017.30	1,967.95	49.35	40.876		
5,400.00	5,026.05	5,166.66	5,112.68	34.45	20.68	-126.55	1,405.81	-821.01	2,041.42	1,991.18	50.25	40.628		
5,500.00	5,114.66	5,304.03	5,248.11	35.34	21.29	-127.42	1,425.77	-809.64	2,064.88	2,013.38	51.50	40.097		
5,600.00	5,203.27	5,380.90	5,323.93	36.23	21.63	-127.91	1,436.61	-803.16	2,088.50	2,036.10	52.40	39.856		
5,700.00	5,291.88	5,464.23	5,405.96	37.12	22.01	-128.40	1,449.68	-796.47	2,112.89	2,059.55	53.35	39.608		
5,800.00	5,380.50	5,539.17	5,479.70	38.01	22.35	-128.81	1,461.77	-791.02	2,138.22	2,083.98	54.24	39.423		
5,900.00	5,469.11	5,617.23	5,556.75	38.90	22.69	-129.27	1,473.34	-786.09	2,164.52	2,109.40	55.12	39.269		
6,000.00	5,557.72	5,690.47	5,629.09	39.79	23.01	-129.70	1,484.07	-782.10	2,191.82	2,135.86	55.96	39.164		
6,100.00	5,646.33	5,757.07	5,694.71	40.68	23.31	-130.05	1,494.99	-779.08	2,220.29	2,163.53	56.76	39.115		
6,200.00	5,734.94	5,828.82	5,765.56	41.58	23.63	-130.44	1,506.14	-776.84	2,250.14	2,192.56	57.58	39.076		
6,300.00	5,823.55	5,917.03	5,852.42	42.47	24.02	-130.87	1,521.29	-774.27	2,280.47	2,221.94	58.53	38.964		
6,400.00	5,912.16	6,005.50	6,018.76	43.36	24.75	-131.75	1,547.16	-768.48	2,310.95	2,250.95	60.00	38.516		
6,500.00	6,000.77	6,159.00	6,091.45	44.26	25.07	-132.14	1,557.31	-764.54	2,339.14	2,278.33	60.81	38.467		
6,600.00	6,089.38	6,225.52	6,157.31	45.15	25.35	-132.50	1,566.16	-761.65	2,368.45	2,306.90	61.55	38.479		
6,700.00	6,177.99	6,312.57	6,243.64	46.05	25.71	-132.99	1,576.94	-758.68	2,398.77	2,336.35	62.41	38.434		
6,800.00	6,266.60	6,398.55	6,328.81	46.94	26.07	-133.44	1,588.33	-755.76	2,429.30	2,366.03	63.27	38.393		
6,900.00	6,355.21	6,522.83	6,451.48	47.84	26.62	-134.00	1,607.72	-751.27	2,459.86	2,395.43	64.44	38.175		
7,000.00	6,443.82	6,629.94	6,556.87	48.74	27.10	-134.43	1,626.05	-745.85	2,489.07	2,423.57	65.50	38.000		
7,100.00	6,532.43	6,694.00	6,620.00	49.63	27.39	-134.69	1,636.57	-743.12	2,519.15	2,452.90	66.25	38.027		
7,200.00	6,621.04	7,140.00	7,060.46	50.53	29.04	-137.46	1,662.94	-700.10	2,548.31	2,479.91	68.40	37.256		
7,300.00	6,709.65	7,140.00	7,060.46	51.42	29.04	-137.46	1,662.94	-700.10	2,568.16	2,499.24	68.93	37.260		
7,400.00	6,798.26	7,140.00	7,060.46	52.32	29.04	-137.46	1,662.94	-700.10	2,591.72	2,522.36	69.36	37.368		
7,500.00	6,886.87	7,182.21	7,101.79	53.22	29.11	-137.90	1,656.22	-694.94	2,617.27	2,547.55	69.73	37.536		
7,600.00	6,975.48	7,229.00	7,147.18	54.12	29.19	-138.46	1,645.29	-692.08	2,647.12	2,577.09	70.03	37.798		
7,656.30	7,025.36	7,229.00	7,147.18	54.62	29.19	-138.46	1,645.29	-692.08	2,664.33	2,594.15	70.18	37.966		
7,700.00	7,064.54	7,229.00	7,147.18	55.00	29.19	-147.11	1,645.29	-692.08	2,678.47	2,608.21	70.27	38.119		
7,750.00	7,110.29	7,229.00	7,147.18	55.40	29.19	-158.95	1,645.29	-692.08	2,695.45	2,625.11	70.34	38.322		
7,800.00	7,156.67	7,229.00	7,147.18	55.75	29.19	-172.74	1,645.29	-692.08	2,713.14	2,642.76	70.37	38.553		
7,850.00	7,203.34	7,229.00	7,147.18	56.05	29.19	172.35	1,645.29	-692.08	2,731.40	2,661.02	70.38	38.809		
7,900.00	7,249.95	7,263.53	7,180.19	56.30	29.21	157.53	1,635.15	-691.51	2,749.38	2,678.99	70.39	39.060		
7,950.00	7,296.14	7,277.80	7,193.68	56.50	29.22	144.28	1,630.52	-691.53	2,767.63	2,697.27	70.36	39.334		
8,000.00	7,341.56	7,318.00	7,231.21	56.64	29.25	133.01	1,616.15	-692.33	2,786.16	2,715.83	70.33	39.616		
8,050.00	7,385.86	7,318.00	7,231.21	56.74	29.25	123.79	1,616.15	-692.33	2,803.73	2,733.46	70.27	39.900		
8,100.00	7,428.71	7,318.00	7,231.21	56.79	29.25	116.21	1,616.15	-692.33	2,821.15	2,750.96	70.19	40.191		
8,150.00	7,469.77	7,347.11	7,257.91	56.80	29.26	110.05	1,604.62	-693.41	2,838.02	2,767.90	70.12	40.475		
8,200.00	7,508.75	7,371.57	7,280.07	56.77	29.26	104.98	1,594.31	-694.48	2,854.10	2,784.06	70.04	40.750		
8,250.00	7,545.33	7,408.00	7,312.55	56.70	29.26	100.86	1,577.92	-696.32	2,869.33	2,799.38	69.95	41.017		
8,300.00	7,579.25	7,437.46	7,338.26	56.59	29.25	97.43	1,563.62	-697.85	2,883.42	2,813.57	69.86	41.276		
8,350.00	7,610.24	7,502.30	7,392.63	56.45	29.23	94.84	1,528.44	-700.64	2,896.02	2,826.33	69.69	41.555		
8,400.00	7,638.06	7,586.00	7,456.15	56.28	29.15	92.85	1,474.12	-702.08	2,906.18	2,836.82	69.36	41.900		
8,450.00	7,662.52	7,586.00	7,456.15	56.09	29.15	90.83	1,474.12	-702.08	2,915.36	2,846.02	69.34	42.042		
8,500.00	7,683.41	7,623.02	7,481.26	55.88	29.10	89.41	1,446.92	-702.53	2,922.91	2,853.74	69.16	42.260		
8,550.00	7,700.59	7,636.45	7,489.90	55.64	29.08	88.17	1,436.66	-702.95	2,929.69	2,860.58	69.11	42.390		
8,600.00	7,713.91	7,675.00	7,513.28	55.39	29.03	87.45	1,406.08	-704.86	2,935.73	2,866.79	68.94	42.584		
8,650.00	7,723.29	7,675.00	7,513.28	55.14	29.03	86.71	1,406.08	-704.86	2,939.97	2,870.97	69.00	42.610		
8,700.00	7,728.64	7,680.65	7,516.53	54.87	29.02	86.28	1,401.48	-705.22	2,943.26	2,874.21	69.04	42.630		
8,740.83	7,730.00	7,779.50	7,568.25	54.65	28.88	87.07	1,317.44	-710.07	2,944.58	2,876.05	68.53	42.967		
8,800.00	7,730.00	7,988.71	7,652.26	54.33	28.72	88.70	1,126.15	-711.19	2,943.60	2,876.13	67.47	43.629		
8,900.00	7,730.00	8,125.27	7,685.38	53.82	28.76	89.34	993.86	-706.99	2,939.70	2,872.66	67.04	43.849		
9,000.00	7,730.00	8,200.80	7,696.77	53.33	28.85	89.57	919.25	-704.29	2,935.58	2,868.54	67.03	43.792		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	8,291.79	7,702.51	52.87	29.04	89.68	828.56	-701.40	2,932.01	2,864.97	67.05	43.730		
9,200.00	7,730.00	8,485.16	7,698.55	52.44	29.74	89.60	635.47	-692.16	2,926.82	2,859.78	67.05	43.655		
9,300.00	7,730.00	8,543.91	7,698.34	52.03	30.05	89.59	576.81	-688.98	2,921.01	2,853.55	67.46	43.298		
9,400.00	7,730.00	8,599.68	7,698.39	51.65	30.37	89.59	521.09	-686.63	2,916.50	2,848.54	67.95	42.920		
9,500.00	7,730.00	8,655.00	7,699.12	51.29	30.70	89.61	465.79	-685.28	2,913.63	2,845.13	68.50	42.533		
9,600.00	7,730.00	8,744.00	7,701.37	50.95	31.32	89.65	376.83	-683.63	2,911.44	2,842.19	69.25	42.041		
9,700.00	7,730.00	8,802.91	7,703.39	50.64	31.77	89.69	317.97	-682.98	2,910.14	2,840.13	70.01	41.569		
9,721.78	7,730.00	8,813.50	7,703.80	50.57	31.85	89.70	307.38	-683.00	2,910.10	2,839.92	70.17	41.470		
9,800.00	7,730.00	8,853.57	7,705.38	50.35	32.17	89.73	267.34	-683.42	2,910.63	2,839.85	70.78	41.124		
9,900.00	7,730.00	8,922.00	7,707.41	50.09	32.74	89.77	198.97	-685.25	2,912.80	2,841.10	71.70	40.624		
10,000.00	7,730.00	8,995.12	7,709.30	49.86	33.39	89.81	125.93	-687.93	2,915.99	2,843.25	72.74	40.086		
10,100.00	7,730.00	9,156.99	7,711.87	49.65	34.94	89.86	-35.86	-692.14	2,918.25	2,843.62	74.62	39.108		
10,200.00	7,730.00	9,292.88	7,713.54	49.48	36.35	89.89	-171.73	-693.37	2,918.80	2,842.28	76.52	38.143		
10,202.65	7,730.00	9,296.43	7,713.59	49.48	36.39	89.89	-175.28	-693.38	2,918.80	2,842.22	76.58	38.116		
10,300.00	7,730.00	9,396.34	7,712.87	49.35	37.52	89.88	-275.19	-693.80	2,918.88	2,840.60	78.28	37.290		
10,400.00	7,730.00	9,556.86	7,709.27	49.27	39.41	89.81	-435.66	-692.64	2,917.90	2,837.07	80.83	36.100		
10,500.00	7,730.00	9,598.08	7,708.34	49.26	39.92	89.79	-476.87	-692.43	2,916.84	2,834.80	82.04	35.553		
10,511.70	7,730.00	9,603.91	7,708.21	49.26	39.99	89.79	-482.70	-692.44	2,916.83	2,834.63	82.20	35.484		
10,600.00	7,730.00	9,676.92	7,706.83	49.32	40.90	89.76	-555.69	-693.17	2,917.36	2,833.58	83.78	34.822		
10,700.00	7,730.00	9,811.23	7,704.78	49.51	42.62	89.72	-689.99	-693.43	2,917.19	2,830.81	86.38	33.771		
10,800.00	7,730.00	9,901.00	7,703.92	49.83	43.81	89.70	-779.75	-692.73	2,916.14	2,827.69	88.45	32.970		
10,839.41	7,730.00	9,931.48	7,703.69	49.99	44.22	89.70	-810.23	-692.60	2,915.88	2,826.67	89.21	32.684		
10,900.00	7,730.00	9,955.68	7,703.52	50.31	44.54	89.70	-834.42	-692.83	2,916.26	2,826.24	90.02	32.394		
11,000.00	7,730.00	10,006.42	7,703.14	50.96	45.23	89.69	-885.14	-694.22	2,918.51	2,826.97	91.55	31.880		
11,100.00	7,730.00	10,142.76	7,702.37	51.75	47.10	89.67	-1,021.42	-698.04	2,921.03	2,826.48	94.55	30.894		
11,200.00	7,730.00	10,321.17	7,707.65	52.66	49.64	89.78	-1,199.74	-699.41	2,921.50	2,823.04	98.46	29.673		
11,300.00	7,730.00	10,460.25	7,712.19	53.67	51.67	89.87	-1,338.72	-697.16	2,919.40	2,817.62	101.78	28.682		
11,400.00	7,730.00	10,537.59	7,713.28	54.75	52.82	89.89	-1,416.05	-696.03	2,917.56	2,813.54	104.03	28.046		
11,500.00	7,730.00	10,640.75	7,713.37	55.89	54.36	89.89	-1,519.19	-694.35	2,915.59	2,808.80	106.79	27.302		
11,600.00	7,730.00	10,704.00	7,713.49	57.07	55.31	89.89	-1,582.44	-694.03	2,914.68	2,805.86	108.82	26.785		
11,700.00	7,730.00	10,810.77	7,714.12	58.30	56.94	89.90	-1,689.21	-694.13	2,914.45	2,802.72	111.73	26.084		
11,800.00	7,730.00	10,916.74	7,715.65	59.55	58.56	89.93	-1,795.16	-693.21	2,913.20	2,798.52	114.68	25.402		
11,856.59	7,730.00	10,948.99	7,716.03	60.28	59.06	89.94	-1,827.41	-693.18	2,912.96	2,797.17	115.80	25.155		
11,900.00	7,730.00	10,977.40	7,716.27	60.84	59.50	89.95	-1,855.82	-693.38	2,913.10	2,796.37	116.73	24.957		
12,000.00	7,730.00	11,083.11	7,717.17	62.15	61.14	89.96	-1,961.52	-693.88	2,913.22	2,793.49	119.73	24.331		
12,100.00	7,730.00	11,149.00	7,716.73	63.49	62.16	89.96	-2,027.41	-694.80	2,914.23	2,792.32	121.91	23.905		
12,200.00	7,730.00	11,262.85	7,715.13	64.85	63.95	89.92	-2,141.24	-696.35	2,915.21	2,790.07	125.14	23.296		
12,300.00	7,730.00	11,327.00	7,714.63	66.22	64.96	89.91	-2,205.37	-697.72	2,916.94	2,789.64	127.30	22.913		
12,400.00	7,730.00	11,466.58	7,714.49	67.62	67.16	89.91	-2,344.91	-700.60	2,918.73	2,787.55	131.18	22.249		
12,500.00	7,730.00	11,545.08	7,715.06	69.03	68.41	89.92	-2,423.40	-701.52	2,919.66	2,785.94	133.72	21.834		
12,600.00	7,730.00	11,600.73	7,715.58	70.45	69.30	89.93	-2,479.03	-703.09	2,922.09	2,786.37	135.73	21.529		
12,700.00	7,730.00	11,722.92	7,717.74	71.90	71.26	89.98	-2,601.14	-706.94	2,924.91	2,785.60	139.31	20.995		
12,800.00	7,730.00	11,893.29	7,717.71	73.35	74.01	89.97	-2,771.48	-709.81	2,926.37	2,782.33	144.04	20.316		
12,900.00	7,730.00	12,008.04	7,716.72	74.81	75.88	89.96	-2,886.22	-709.40	2,925.61	2,778.11	147.50	19.835		
12,975.68	7,730.00	12,068.29	7,715.29	75.93	76.87	89.93	-2,946.46	-709.46	2,925.43	2,775.92	149.51	19.567		
13,000.00	7,730.00	12,088.54	7,714.84	76.29	77.20	89.92	-2,966.70	-709.54	2,925.44	2,775.27	150.18	19.480		
13,100.00	7,730.00	12,193.55	7,713.98	77.78	78.93	89.90	-3,071.70	-710.13	2,925.68	2,772.23	153.45	19.066		
13,200.00	7,730.00	12,400.35	7,718.92	79.28	82.35	90.00	-3,278.41	-707.57	2,924.38	2,765.27	159.12	18.379		
13,300.00	7,730.00	12,457.40	7,720.41	80.79	83.31	90.03	-3,335.42	-706.14	2,921.50	2,760.14	161.36	18.106		
13,400.00	7,730.00	12,528.12	7,722.32	82.31	84.48	90.07	-3,406.11	-705.26	2,919.87	2,755.97	163.90	17.815		
13,500.00	7,730.00	12,600.00	7,723.99	83.84	85.68	90.10	-3,477.97	-704.90	2,919.06	2,752.61	166.45	17.537		
13,518.19	7,730.00	12,611.01	7,724.18	84.12	85.87	90.10	-3,488.98	-704.92	2,919.04	2,752.17	166.86	17.493		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,600.00	7,730.00	12,664.00	7,724.70	85.37	86.75	90.11	-3,541.96	-705.41	2,919.49	2,750.70	168.80	17.296		
13,700.00	7,730.00	12,867.78	7,725.90	86.92	90.16	90.14	-3,745.71	-704.25	2,918.46	2,743.91	174.55	16.720		
13,800.00	7,730.00	12,931.00	7,727.11	88.47	91.22	90.16	-3,808.91	-703.74	2,917.02	2,740.08	176.95	16.485		
13,838.12	7,730.00	12,931.00	7,727.11	89.06	91.22	90.16	-3,808.91	-703.74	2,916.77	2,739.51	177.26	16.455		
13,900.00	7,730.00	12,962.82	7,727.85	90.03	91.75	90.17	-3,840.72	-704.05	2,917.13	2,738.61	178.53	16.340		
14,000.00	7,730.00	13,022.23	7,729.10	91.59	92.75	90.20	-3,900.11	-705.29	2,918.87	2,738.12	180.76	16.148		
14,100.00	7,730.00	13,108.89	7,730.35	93.16	94.19	90.22	-3,986.72	-707.87	2,921.52	2,737.85	183.68	15.906		
14,200.00	7,730.00	13,228.23	7,731.20	94.74	96.19	90.24	-4,106.00	-711.52	2,924.27	2,736.81	187.46	15.599		
14,300.00	7,730.00	14,300.00	7,731.80	96.33	114.26	90.25	-4,258.62	-713.44	2,924.98	2,717.36	207.62	14.088		
14,400.00	7,730.00	13,444.96	7,732.72	97.92	99.84	90.27	-4,322.70	-714.07	2,925.77	2,731.28	194.49	15.043		
14,500.00	7,730.00	13,533.99	7,734.28	99.51	101.34	90.30	-4,411.68	-716.24	2,927.84	2,730.32	197.52	14.823		
14,600.00	7,730.00	13,676.38	7,731.85	101.11	103.75	90.25	-4,554.03	-718.72	2,929.28	2,727.35	201.93	14.507		
14,700.00	7,730.00	13,844.74	7,728.55	102.72	106.61	90.19	-4,722.34	-717.72	2,928.10	2,721.14	206.96	14.148		
14,800.00	7,730.00	13,911.00	7,727.44	104.33	107.74	90.17	-4,788.60	-717.50	2,927.25	2,717.79	209.46	13.975		
14,817.84	7,730.00	13,911.00	7,727.44	104.61	107.74	90.17	-4,788.60	-717.50	2,927.20	2,717.59	209.61	13.965		
14,900.00	7,730.00	13,948.83	7,726.79	105.94	108.38	90.15	-4,826.42	-717.99	2,927.90	2,716.70	211.19	13.864		
15,000.00	7,730.00	14,007.15	7,725.69	107.56	109.37	90.13	-4,884.71	-719.57	2,930.19	2,716.79	213.40	13.731		
15,100.00	7,730.00	14,155.14	7,723.13	109.18	111.88	90.08	-5,032.62	-723.26	2,932.36	2,714.34	218.03	13.449		
15,200.00	7,730.00	14,290.00	7,721.75	110.81	114.18	90.05	-5,167.47	-724.69	2,933.09	2,710.80	222.29	13.195		
15,300.00	7,730.00	14,432.09	7,720.52	112.44	116.61	90.03	-5,309.55	-724.14	2,932.31	2,705.58	226.73	12.933		
15,398.50	7,730.00	14,491.78	7,720.58	114.05	117.64	90.03	-5,369.24	-723.83	2,931.54	2,702.47	229.06	12.798		
15,400.00	7,730.00	14,492.57	7,720.58	114.08	117.65	90.03	-5,370.02	-723.83	2,931.54	2,702.44	229.09	12.796		
15,500.00	7,730.00	14,557.49	7,721.45	115.72	118.76	90.05	-5,434.93	-724.63	2,932.33	2,700.78	231.55	12.664		
15,600.00	7,730.00	14,660.26	7,723.08	117.36	120.52	90.08	-5,537.69	-726.04	2,933.36	2,698.35	235.00	12.482		
15,700.00	7,730.00	14,758.66	7,726.34	119.00	122.21	90.14	-5,636.01	-727.67	2,934.68	2,696.33	238.36	12.312		
15,800.00	7,730.00	14,837.35	7,729.42	120.65	123.56	90.20	-5,714.63	-728.87	2,935.95	2,694.78	241.17	12.174		
15,900.00	7,730.00	14,892.00	7,731.86	122.30	124.49	90.25	-5,769.20	-730.52	2,938.65	2,695.36	243.29	12.079		
16,000.00	7,730.00	15,037.25	7,738.93	123.96	126.98	90.39	-5,914.21	-734.96	2,941.41	2,693.44	247.97	11.862		
16,100.00	7,730.00	15,152.99	7,744.48	125.61	128.96	90.50	-6,029.80	-737.08	2,942.93	2,691.11	251.82	11.687		
16,200.00	7,730.00	15,211.23	7,746.97	127.27	129.96	90.54	-6,087.97	-738.43	2,944.98	2,690.92	254.06	11.592		
16,300.00	7,730.00	15,304.26	7,750.17	128.94	131.56	90.61	-6,180.88	-741.86	2,948.33	2,691.07	257.27	11.460		
16,400.00	7,730.00	15,392.39	7,753.02	130.60	133.07	90.66	-6,268.92	-744.73	2,951.32	2,690.99	260.33	11.337		
16,500.00	7,730.00	15,470.53	7,754.63	132.27	134.40	90.69	-6,346.97	-748.04	2,955.21	2,692.12	263.09	11.233		
16,600.00	7,730.00	15,590.70	7,756.33	133.94	136.46	90.72	-6,467.01	-753.33	2,959.34	2,692.25	267.09	11.080		
16,700.00	7,730.00	15,758.93	7,757.80	135.61	139.35	90.75	-6,635.17	-757.86	2,961.72	2,689.29	272.43	10.872		
16,800.00	7,730.00	15,896.80	7,759.10	137.28	141.73	90.78	-6,773.02	-758.92	2,962.11	2,685.25	276.86	10.699		
16,900.00	7,730.00	16,035.72	7,756.53	138.96	144.14	90.73	-6,911.91	-758.72	2,961.69	2,680.40	281.29	10.529		
17,000.00	7,730.00	17,000.00	7,750.39	140.64	160.96	90.61	-7,097.69	-753.35	2,958.06	2,657.71	300.35	9.849		
17,100.00	7,730.00	16,277.55	7,749.80	142.32	148.35	90.60	-7,153.51	-751.29	2,954.23	2,665.06	289.18	10.216		
17,200.00	7,730.00	16,312.00	7,749.86	144.00	148.95	90.60	-7,187.95	-750.71	2,952.42	2,661.44	290.98	10.146		
17,241.90	7,730.00	16,337.06	7,750.07	144.71	149.39	90.60	-7,213.01	-750.63	2,952.21	2,660.23	291.98	10.111		
17,300.00	7,730.00	16,360.48	7,750.35	145.69	149.79	90.61	-7,236.43	-750.84	2,952.54	2,659.51	293.03	10.076		
17,400.00	7,730.00	16,401.00	7,751.02	147.37	150.49	90.62	-7,276.93	-751.85	2,954.71	2,659.94	294.77	10.024		
17,500.00	7,730.00	16,521.55	7,753.73	149.06	152.57	90.67	-7,397.38	-755.69	2,957.60	2,658.79	298.81	9.898		
17,600.00	7,730.00	16,655.10	7,758.29	150.75	154.88	90.76	-7,530.82	-758.64	2,959.51	2,656.30	303.21	9.761		
17,700.00	7,730.00	16,717.68	7,760.78	152.44	155.96	90.81	-7,593.34	-759.94	2,961.37	2,655.78	305.59	9.691		
17,800.00	7,730.00	16,785.45	7,763.37	154.13	157.13	90.86	-7,661.01	-762.43	2,964.68	2,656.60	308.07	9.623		
17,900.00	7,730.00	16,892.15	7,767.45	155.83	158.97	90.94	-7,767.56	-766.62	2,968.33	2,656.61	311.72	9.522		
18,000.00	7,730.00	16,993.28	7,772.19	157.52	160.72	91.03	-7,868.51	-770.27	2,971.69	2,656.49	315.20	9.428		
18,100.00	7,730.00	17,084.93	7,774.31	159.22	162.30	91.07	-7,960.06	-773.82	2,975.26	2,656.87	318.39	9.345		
18,200.00	7,730.00	17,194.53	7,775.72	160.92	164.19	91.09	-8,069.57	-778.16	2,978.91	2,656.79	322.12	9.248		
18,300.00	7,730.00	17,322.79	7,777.65	162.62	166.41	91.13	-8,197.75	-782.26	2,981.79	2,655.39	326.40	9.135		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,400.00	7,730.00	17,441.44	7,780.40	164.32	168.47	91.18	-8,316.33	-785.15	2,983.93	2,653.53	330.40	9.031	
18,426.22	7,730.00	17,472.89	7,781.25	164.76	169.01	91.20	-8,347.76	-785.78	2,984.38	2,652.93	331.45	9.004 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-51.36	785.34	-982.46	1,300.09					
100.00	100.00	318.00	317.99	0.13	0.00	-51.36	785.34	-982.46	1,278.45	1,278.01	0.43	2,954.208		
200.00	200.00	318.00	317.99	0.49	0.00	-51.36	785.34	-982.46	1,264.37	1,263.82	0.54	2,323.743		
300.00	300.00	318.00	317.99	0.85	0.00	-51.36	785.34	-982.46	1,258.11	1,257.25	0.85	1,474.879		
328.99	328.99	318.00	317.99	0.96	0.00	-51.36	785.34	-982.46	1,257.77	1,256.82	0.96	1,316.363		
400.00	400.00	387.89	387.87	1.21	0.13	-51.40	784.70	-983.12	1,257.88	1,256.55	1.34	941.844		
500.00	500.00	490.49	490.47	1.57	0.31	-51.46	783.71	-983.88	1,257.87	1,255.99	1.88	669.687		
600.00	600.00	593.10	593.07	1.93	0.49	-51.51	782.70	-984.40	1,257.65	1,255.23	2.42	519.455		
623.30	623.30	617.00	616.97	2.01	0.54	-51.52	782.46	-984.49	1,257.57	1,255.02	2.55	493.637 CC		
700.00	700.00	678.26	678.23	2.29	0.80	-51.48	783.50	-984.12	1,257.97	1,254.88	3.08	407.944 ES		
800.00	800.00	766.65	766.51	2.64	1.11	-51.29	787.37	-982.52	1,259.29	1,255.54	3.75	336.203		
900.00	900.00	857.29	856.80	3.00	1.44	-50.94	794.57	-979.22	1,261.45	1,257.02	4.43	284.696		
1,000.00	1,000.00	944.27	943.11	3.36	1.76	-50.47	804.23	-974.72	1,264.51	1,259.39	5.12	247.083		
1,100.00	1,100.00	1,030.39	1,028.34	3.72	2.11	-49.94	815.62	-969.99	1,268.78	1,262.96	5.82	218.119		
1,200.00	1,200.00	1,124.80	1,121.49	4.08	2.50	-49.28	829.84	-964.07	1,273.82	1,267.26	6.56	194.091		
1,300.00	1,299.98	1,219.69	1,215.01	4.43	2.91	-95.68	844.71	-957.99	1,279.54	1,272.22	7.32	174.855		
1,400.00	1,399.84	1,330.44	1,324.20	4.79	3.39	-95.04	861.92	-951.14	1,285.82	1,277.68	8.15	157.853		
1,500.00	1,499.45	1,435.64	1,427.87	5.15	3.85	-94.56	877.87	-943.08	1,291.09	1,282.13	8.96	144.112		
1,600.00	1,598.70	1,519.62	1,510.54	5.51	4.22	-94.26	891.21	-936.79	1,297.31	1,287.62	9.69	133.885		
1,700.00	1,697.47	1,629.19	1,618.22	5.89	4.72	-94.03	909.72	-928.51	1,304.47	1,293.91	10.56	123.564		
1,800.00	1,795.62	1,745.12	1,732.35	6.28	5.24	-94.01	927.61	-918.84	1,310.22	1,298.75	11.47	114.248		
1,900.00	1,893.06	1,828.24	1,814.27	6.69	5.61	-94.12	940.13	-912.49	1,316.53	1,304.28	12.25	107.509		
2,000.00	1,989.64	1,912.89	1,897.72	7.13	5.99	-94.34	953.29	-907.19	1,324.46	1,311.41	13.05	101.459		
2,100.00	2,085.27	2,053.70	2,036.52	7.61	6.62	-95.01	974.73	-896.99	1,331.95	1,317.79	14.16	94.064		
2,200.00	2,179.82	2,153.33	2,134.59	8.12	7.07	-95.55	989.34	-887.28	1,337.58	1,322.46	15.12	88.456		
2,300.00	2,273.17	2,232.59	2,212.54	8.67	7.43	-96.03	1,001.69	-879.96	1,344.75	1,328.72	16.03	83.880		
2,400.00	2,365.21	2,311.17	2,289.82	9.27	7.80	-96.58	1,014.47	-873.77	1,354.00	1,337.02	16.98	79.741		
2,500.00	2,455.84	2,391.10	2,368.43	9.92	8.16	-97.22	1,027.93	-868.41	1,365.32	1,347.34	17.98	75.947		
2,580.62	2,527.80	2,456.07	2,432.35	10.49	8.46	-97.81	1,038.96	-864.81	1,375.91	1,357.09	18.82	73.128		
2,600.00	2,544.97	2,474.87	2,450.86	10.63	8.54	-98.05	1,042.14	-863.86	1,378.63	1,359.59	19.04	72.423		
2,700.00	2,633.58	2,573.93	2,548.43	11.37	8.99	-99.32	1,058.49	-858.96	1,392.85	1,372.65	20.20	68.960		
2,800.00	2,722.19	2,662.88	2,636.31	12.13	9.38	-100.51	1,071.85	-855.60	1,407.86	1,386.55	21.31	66.077		
2,900.00	2,810.80	2,784.38	2,756.41	12.91	9.90	-102.11	1,089.52	-850.40	1,423.01	1,400.42	22.59	62.995		
3,000.00	2,899.41	2,894.48	2,864.91	13.71	10.39	-103.43	1,106.34	-842.35	1,436.68	1,412.84	23.84	60.271		
3,100.00	2,988.02	3,023.14	2,992.07	14.52	10.95	-105.02	1,123.32	-832.73	1,449.90	1,424.74	25.16	57.633		
3,200.00	3,076.63	3,122.39	3,090.48	15.34	11.36	-106.30	1,133.81	-825.23	1,462.45	1,436.13	26.32	55.568		
3,300.00	3,165.24	3,230.26	3,197.31	16.16	11.81	-107.65	1,145.44	-815.92	1,474.91	1,447.39	27.52	53.598		
3,400.00	3,253.85	3,332.05	3,297.71	17.00	12.26	-108.80	1,158.50	-805.34	1,487.41	1,458.70	28.71	51.802		
3,500.00	3,342.46	3,423.18	3,387.26	17.84	12.68	-109.74	1,171.70	-794.87	1,500.23	1,470.36	29.87	50.220		
3,600.00	3,431.07	3,500.80	3,463.71	18.69	13.02	-110.56	1,182.46	-786.83	1,514.26	1,483.31	30.95	48.923		
3,700.00	3,519.68	3,583.26	3,545.22	19.55	13.38	-111.49	1,192.83	-779.97	1,530.00	1,497.97	32.03	47.771		
3,800.00	3,608.29	3,722.67	3,682.75	20.40	14.00	-112.96	1,211.32	-766.75	1,545.77	1,512.39	33.37	46.316		
3,900.00	3,696.90	3,809.96	3,768.59	21.26	14.40	-113.81	1,223.53	-756.66	1,560.22	1,525.74	34.48	45.244		
4,000.00	3,785.51	3,880.54	3,838.28	22.13	14.71	-114.55	1,232.29	-749.69	1,576.09	1,540.62	35.48	44.423		
4,100.00	3,874.12	3,955.03	3,912.08	23.00	15.02	-115.36	1,240.54	-743.87	1,593.84	1,557.38	36.46	43.716		
4,200.00	3,962.73	4,030.66	3,986.99	23.87	15.34	-116.17	1,249.50	-738.65	1,613.18	1,575.74	37.43	43.094		
4,300.00	4,051.34	4,103.36	4,058.67	24.74	15.66	-116.84	1,260.58	-733.71	1,634.08	1,595.68	38.40	42.557		
4,400.00	4,139.95	4,176.99	4,131.23	25.62	15.99	-117.51	1,272.40	-729.76	1,656.82	1,617.46	39.36	42.094		
4,500.00	4,228.56	4,301.92	4,254.43	26.49	16.55	-118.62	1,291.56	-721.98	1,678.85	1,638.23	40.62	41.329		
4,600.00	4,317.17	4,402.60	4,354.08	27.37	16.98	-119.57	1,304.69	-715.94	1,701.06	1,659.36	41.70	40.792		
4,700.00	4,405.78	4,501.48	4,451.82	28.25	17.41	-120.46	1,317.95	-709.06	1,722.86	1,680.09	42.77	40.286		
4,800.00	4,494.39	4,591.08	4,540.21	29.13	17.81	-121.21	1,331.25	-702.99	1,745.49	1,701.71	43.79	39.862		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,583.00	4,690.16	4,637.54	30.02	18.27	-121.94	1,348.13	-695.34	1,768.04	1,723.16	44.89	39.388		
5,000.00	4,671.61	4,769.96	4,716.14	30.90	18.63	-122.55	1,360.77	-689.71	1,791.26	1,745.42	45.85	39.071		
5,100.00	4,760.22	4,891.17	4,835.68	31.79	19.17	-123.48	1,379.16	-681.93	1,815.39	1,768.35	47.04	38.592		
5,200.00	4,848.83	5,026.06	4,968.28	32.67	19.79	-124.43	1,400.14	-668.83	1,836.36	1,788.04	48.32	38.007		
5,300.00	4,937.44	5,088.89	5,030.20	33.56	20.08	-124.90	1,409.18	-663.13	1,858.23	1,809.08	49.15	37.804		
5,400.00	5,026.05	5,169.01	5,109.46	34.45	20.42	-125.53	1,419.15	-657.12	1,881.57	1,831.53	50.04	37.598		
5,500.00	5,114.66	5,334.70	5,273.40	35.34	21.13	-126.82	1,438.56	-643.13	1,904.56	1,853.18	51.37	37.073		
5,600.00	5,203.27	5,456.06	5,392.77	36.23	21.68	-127.66	1,454.84	-628.45	1,924.21	1,871.72	52.49	36.657		
5,700.00	5,291.88	5,523.60	5,459.20	37.12	21.99	-128.12	1,464.08	-620.54	1,944.61	1,891.27	53.34	36.459		
5,800.00	5,380.50	5,582.18	5,516.88	38.01	22.26	-128.50	1,472.42	-614.59	1,966.79	1,912.68	54.11	36.346		
5,900.00	5,469.11	5,641.75	5,575.58	38.90	22.52	-128.88	1,481.22	-609.67	1,991.01	1,936.14	54.87	36.286		
6,000.00	5,557.72	5,712.00	5,645.05	39.79	22.83	-129.35	1,490.57	-605.06	2,016.92	1,961.26	55.66	36.237		
6,100.00	5,646.33	5,780.53	5,712.98	40.68	23.11	-129.83	1,498.91	-601.47	2,044.21	1,987.80	56.40	36.242		
6,200.00	5,734.94	5,939.53	5,870.30	41.58	23.79	-130.86	1,519.63	-591.62	2,071.10	2,013.37	57.73	35.874		
6,300.00	5,823.55	6,061.40	5,990.29	42.47	24.35	-131.54	1,537.96	-580.70	2,095.51	2,036.65	58.86	35.603		
6,400.00	5,912.16	6,133.57	6,061.14	43.36	24.69	-131.91	1,550.01	-574.18	2,120.15	2,060.46	59.69	35.517		
6,500.00	6,000.77	6,195.04	6,121.47	44.26	24.97	-132.20	1,560.78	-569.40	2,146.19	2,085.75	60.45	35.506		
6,600.00	6,089.38	6,246.00	6,171.66	45.15	25.21	-132.46	1,569.05	-566.32	2,174.02	2,112.93	61.09	35.586		
6,700.00	6,177.99	6,318.63	6,243.46	46.05	25.52	-132.86	1,579.53	-563.04	2,203.35	2,141.50	61.85	35.624		
6,800.00	6,266.60	6,498.35	6,421.37	46.94	26.28	-133.89	1,602.71	-552.89	2,231.79	2,168.49	63.31	35.254		
6,900.00	6,355.21	6,629.96	6,551.26	47.84	26.86	-134.59	1,620.37	-541.24	2,257.18	2,192.75	64.43	35.031		
7,000.00	6,443.82	6,692.00	6,612.37	48.74	27.14	-134.89	1,629.59	-535.77	2,282.99	2,217.84	65.15	35.042		
7,100.00	6,532.43	6,754.66	6,674.13	49.63	27.42	-135.18	1,639.07	-531.13	2,310.27	2,244.42	65.85	35.082		
7,200.00	6,621.04	7,048.00	6,964.01	50.53	28.56	-137.09	1,659.50	-502.42	2,337.50	2,270.00	67.49	34.632		
7,300.00	6,709.65	7,094.93	7,009.79	51.42	28.65	-137.63	1,652.44	-495.05	2,358.39	2,290.49	67.89	34.737		
7,400.00	6,798.26	7,138.00	7,051.53	52.32	28.73	-138.18	1,643.03	-490.19	2,382.92	2,314.70	68.22	34.930		
7,500.00	6,886.87	7,138.00	7,051.53	53.22	28.73	-138.18	1,643.03	-490.19	2,410.07	2,341.57	68.50	35.185		
7,600.00	6,975.48	7,138.00	7,051.53	54.12	28.73	-138.18	1,643.03	-490.19	2,441.02	2,372.34	68.68	35.544		
7,656.30	7,025.36	7,138.00	7,051.53	54.62	28.73	-138.18	1,643.03	-490.19	2,460.06	2,391.32	68.74	35.789		
7,700.00	7,064.54	7,138.00	7,051.53	55.00	28.73	-147.00	1,643.03	-490.19	2,475.67	2,406.90	68.76	36.003		
7,750.00	7,110.29	7,178.00	7,090.01	55.40	28.76	-159.46	1,632.33	-487.94	2,492.58	2,423.77	68.81	36.225		
7,800.00	7,156.67	7,185.69	7,097.37	55.75	28.77	-173.43	1,630.13	-487.84	2,511.28	2,442.47	68.81	36.498		
7,850.00	7,203.34	7,227.00	7,136.66	56.05	28.80	171.29	1,617.47	-489.05	2,531.67	2,462.85	68.82	36.789		
7,900.00	7,249.95	7,227.00	7,136.66	56.30	28.80	156.56	1,617.47	-489.05	2,550.55	2,481.78	68.77	37.088		
7,950.00	7,296.14	7,227.00	7,136.66	56.50	28.80	143.25	1,617.47	-489.05	2,569.69	2,500.99	68.70	37.402		
8,000.00	7,341.56	7,227.00	7,136.66	56.64	28.80	131.91	1,617.47	-489.05	2,588.93	2,520.31	68.62	37.728		
8,050.00	7,385.86	7,227.00	7,136.66	56.74	28.80	122.50	1,617.47	-489.05	2,608.13	2,539.60	68.53	38.059		
8,100.00	7,428.71	7,227.00	7,136.66	56.79	28.80	114.73	1,617.47	-489.05	2,627.14	2,558.71	68.43	38.393		
8,150.00	7,469.77	7,227.00	7,136.66	56.80	28.80	108.29	1,617.47	-489.05	2,645.82	2,577.50	68.32	38.724		
8,200.00	7,508.75	7,263.76	7,171.20	56.77	28.81	103.18	1,605.24	-492.07	2,663.17	2,594.86	68.31	38.985		
8,250.00	7,545.33	7,276.39	7,182.97	56.70	28.82	98.79	1,600.87	-493.37	2,680.11	2,611.86	68.25	39.267		
8,300.00	7,579.25	7,316.00	7,219.58	56.59	28.83	95.38	1,586.58	-498.34	2,696.66	2,628.39	68.27	39.502		
8,350.00	7,610.24	8,350.00	7,242.42	56.45	28.75	92.44	1,575.61	-501.11	2,711.32	2,642.93	68.39	39.647		
8,400.00	7,638.06	7,494.64	7,374.48	56.28	28.76	91.34	1,499.99	-513.75	2,723.67	2,655.54	68.12	39.981		
8,450.00	7,662.52	7,516.20	7,391.64	56.09	28.74	89.44	1,487.00	-514.96	2,733.79	2,665.72	68.07	40.162		
8,500.00	7,683.41	7,537.41	7,408.10	55.88	28.72	87.91	1,473.69	-516.28	2,742.70	2,674.67	68.03	40.315		
8,550.00	7,700.59	7,558.48	7,424.01	55.64	28.70	86.74	1,459.96	-517.71	2,750.36	2,682.35	68.01	40.441		
8,600.00	7,713.91	7,828.33	7,577.95	55.39	28.30	87.75	1,242.07	-522.57	2,755.73	2,689.20	66.54	41.416		
8,650.00	7,723.29	7,867.82	7,589.57	55.14	28.24	87.42	1,204.38	-520.74	2,756.52	2,690.18	66.34	41.551		
8,700.00	7,728.64	7,902.81	7,598.98	54.87	28.18	87.41	1,170.72	-519.24	2,755.81	2,689.60	66.21	41.622		
8,740.83	7,730.00	7,931.08	7,606.27	54.65	28.14	87.65	1,143.43	-518.14	2,754.14	2,688.02	66.13	41.650		
8,800.00	7,730.00	7,940.00	7,608.51	54.33	28.12	87.70	1,134.80	-517.81	2,751.51	2,685.26	66.26	41.529		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	8,000.91	7,623.08	53.82	28.06	88.00	1,075.67	-516.49	2,748.35	2,682.14	66.22	41.506		
9,000.00	7,730.00	8,076.07	7,638.84	53.33	28.01	88.33	1,002.19	-516.58	2,747.31	2,681.14	66.16	41.524		
9,100.00	7,730.00	8,290.50	7,664.35	52.87	28.22	88.86	789.60	-509.98	2,742.75	2,677.07	65.68	41.757		
9,200.00	7,730.00	8,384.52	7,666.64	52.44	28.51	88.90	695.71	-505.69	2,737.80	2,671.91	65.89	41.551		
9,300.00	7,730.00	8,480.21	7,668.41	52.03	28.94	88.94	600.12	-501.48	2,733.03	2,666.76	66.27	41.243		
9,400.00	7,730.00	8,575.91	7,669.66	51.65	29.50	88.96	504.52	-497.36	2,728.35	2,661.55	66.81	40.839		
9,500.00	7,730.00	8,652.00	7,670.54	51.29	30.01	88.98	428.49	-494.47	2,724.21	2,656.76	67.45	40.387		
9,600.00	7,730.00	8,726.66	7,671.67	50.95	30.57	89.00	353.88	-492.32	2,720.97	2,652.76	68.21	39.891		
9,700.00	7,730.00	8,801.45	7,672.85	50.64	31.17	89.03	279.11	-490.89	2,718.70	2,649.63	69.07	39.362		
9,800.00	7,730.00	8,883.75	7,673.63	50.35	31.89	89.04	196.82	-490.01	2,717.26	2,647.19	70.06	38.783		
9,900.00	7,730.00	8,975.52	7,672.76	50.09	32.74	89.02	105.05	-489.41	2,716.28	2,645.06	71.22	38.138		
10,000.00	7,730.00	9,068.37	7,671.45	49.86	33.66	89.00	12.21	-489.01	2,715.53	2,643.02	72.52	37.447		
10,100.00	7,730.00	9,190.82	7,668.90	49.65	34.95	88.94	-110.20	-488.33	2,714.70	2,640.50	74.20	36.584		
10,200.00	7,730.00	9,291.14	7,668.17	49.48	36.07	88.93	-210.52	-487.30	2,713.36	2,637.50	75.86	35.770		
10,300.00	7,730.00	9,410.15	7,668.66	49.35	37.47	88.94	-329.51	-485.47	2,711.45	2,633.59	77.86	34.826		
10,400.00	7,730.00	9,518.02	7,668.69	49.27	38.79	88.94	-437.36	-483.41	2,709.19	2,629.33	79.86	33.924		
10,500.00	7,730.00	9,644.08	7,668.82	49.26	40.38	88.94	-563.38	-480.23	2,706.35	2,624.11	82.24	32.910		
10,600.00	7,730.00	9,689.79	7,668.76	49.32	40.98	88.94	-609.08	-479.44	2,704.10	2,620.53	83.57	32.356		
10,685.61	7,730.00	9,735.91	7,668.55	49.47	41.59	88.93	-655.20	-479.30	2,703.55	2,618.72	84.83	31.870		
10,700.00	7,730.00	9,743.97	7,668.51	49.51	41.69	88.93	-663.26	-479.34	2,703.57	2,618.53	85.04	31.790		
10,800.00	7,730.00	9,810.00	7,668.45	49.83	42.56	88.93	-729.28	-480.40	2,704.73	2,618.01	86.72	31.189		
10,900.00	7,730.00	9,870.60	7,667.67	50.31	43.38	88.91	-789.85	-482.18	2,707.22	2,618.88	88.34	30.646		
11,000.00	7,730.00	9,973.76	7,663.19	50.96	44.78	88.82	-892.85	-485.70	2,710.39	2,619.69	90.69	29.885		
11,100.00	7,730.00	10,161.70	7,653.28	51.75	47.42	88.61	-1,080.49	-488.07	2,711.21	2,616.58	94.63	28.651		
11,200.00	7,730.00	10,286.44	7,647.16	52.66	49.23	88.48	-1,205.09	-487.45	2,710.51	2,612.92	97.59	27.775		
11,300.00	7,730.00	10,411.15	7,641.51	53.67	51.08	88.36	-1,329.65	-485.43	2,708.64	2,608.01	100.63	26.916		
11,400.00	7,730.00	10,525.78	7,635.67	54.75	52.80	88.23	-1,444.10	-482.91	2,706.25	2,602.69	103.56	26.132		
11,500.00	7,730.00	10,586.80	7,632.58	55.89	53.73	88.17	-1,505.03	-481.85	2,704.32	2,598.82	105.49	25.635		
11,600.00	7,730.00	10,656.93	7,629.29	57.07	54.79	88.10	-1,575.09	-481.56	2,703.69	2,596.07	107.62	25.123		
11,614.37	7,730.00	10,667.77	7,628.77	57.25	54.96	88.09	-1,585.91	-481.57	2,703.68	2,595.74	107.94	25.048		
11,700.00	7,730.00	10,735.95	7,625.48	58.30	56.00	88.02	-1,654.01	-481.94	2,703.99	2,594.05	109.94	24.596		
11,800.00	7,730.00	10,825.08	7,621.09	59.55	57.37	87.93	-1,743.03	-482.91	2,704.90	2,592.41	112.49	24.045		
11,900.00	7,730.00	10,931.13	7,618.37	60.84	59.00	87.87	-1,849.03	-484.24	2,705.92	2,590.46	115.46	23.437		
12,000.00	7,730.00	11,029.81	7,615.66	62.15	60.54	87.81	-1,947.67	-485.22	2,706.67	2,588.37	118.30	22.880		
12,100.00	7,730.00	11,147.15	7,611.23	63.49	62.38	87.72	-2,064.92	-486.26	2,707.39	2,585.81	121.58	22.268		
12,200.00	7,730.00	11,257.72	7,605.87	64.85	64.13	87.61	-2,175.36	-486.43	2,707.39	2,582.64	124.75	21.702		
12,300.00	7,730.00	11,371.91	7,599.53	66.22	65.96	87.47	-2,289.37	-486.28	2,707.18	2,579.15	128.03	21.145		
12,400.00	7,730.00	11,501.37	7,595.10	67.62	68.04	87.38	-2,418.75	-484.88	2,705.89	2,574.19	131.70	20.545		
12,500.00	7,730.00	11,622.32	7,590.67	69.03	70.01	87.28	-2,539.60	-482.49	2,703.75	2,568.53	135.22	19.995		
12,600.00	7,730.00	11,731.03	7,585.53	70.45	71.78	87.17	-2,648.14	-479.61	2,700.98	2,562.50	138.47	19.505		
12,700.00	7,730.00	11,816.00	7,583.03	71.90	73.18	87.11	-2,733.05	-477.50	2,698.32	2,557.10	141.22	19.107		
12,800.00	7,730.00	11,914.60	7,582.89	73.35	74.80	87.11	-2,831.63	-475.85	2,696.31	2,552.00	144.31	18.684		
12,900.00	7,730.00	12,028.14	7,582.50	74.81	76.67	87.09	-2,945.14	-473.32	2,693.75	2,545.97	147.78	18.228		
13,000.00	7,730.00	12,120.82	7,582.35	76.29	78.20	87.09	-3,037.79	-471.19	2,691.13	2,540.36	150.77	17.849		
13,100.00	7,730.00	12,176.23	7,583.52	77.78	79.12	87.11	-3,093.19	-470.49	2,689.46	2,536.58	152.88	17.592		
13,144.14	7,730.00	12,199.54	7,584.24	78.44	79.51	87.13	-3,116.49	-470.51	2,689.27	2,535.50	153.77	17.489		
13,200.00	7,730.00	12,240.66	7,585.77	79.28	80.19	87.16	-3,157.58	-470.89	2,689.48	2,534.29	155.19	17.331		
13,300.00	7,730.00	12,348.49	7,589.82	80.79	81.97	87.25	-3,265.32	-471.96	2,689.95	2,531.34	158.60	16.960		
13,400.00	7,730.00	12,456.10	7,593.24	82.31	83.76	87.32	-3,372.87	-472.49	2,689.94	2,527.91	162.03	16.601		
13,433.81	7,730.00	12,489.56	7,594.12	82.82	84.32	87.34	-3,406.33	-472.63	2,689.93	2,526.81	163.12	16.491		
13,500.00	7,730.00	12,539.26	7,595.21	83.84	85.14	87.36	-3,456.01	-473.00	2,690.13	2,525.29	164.83	16.320		
13,600.00	7,730.00	12,641.82	7,596.62	85.37	86.85	87.39	-3,558.56	-474.16	2,690.86	2,522.72	168.14	16.004		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,700.00	7,730.00	12,740.54	7,597.14	86.92	88.50	87.40	-3,657.27	-474.96	2,691.30	2,519.95	171.35	15.706		
13,800.00	7,730.00	12,831.67	7,596.77	88.47	90.02	87.40	-3,748.40	-475.88	2,691.99	2,517.62	174.37	15.439		
13,900.00	7,730.00	12,922.21	7,595.64	90.03	91.54	87.37	-3,838.92	-477.08	2,693.02	2,515.65	177.37	15.183		
14,000.00	7,730.00	13,021.50	7,593.82	91.59	93.20	87.34	-3,938.18	-478.57	2,694.27	2,513.66	180.61	14.918		
14,100.00	7,730.00	13,130.81	7,591.58	93.16	95.04	87.29	-4,047.46	-479.91	2,695.25	2,511.13	184.12	14.638		
14,200.00	7,730.00	13,235.56	7,589.17	94.74	96.80	87.24	-4,152.17	-481.19	2,696.24	2,508.72	187.52	14.378		
14,300.00	7,730.00	13,364.14	7,589.87	96.33	98.98	87.25	-4,280.74	-481.83	2,696.35	2,504.77	191.59	14.074		
14,353.55	7,730.00	13,408.51	7,590.24	97.18	99.73	87.26	-4,325.11	-481.88	2,696.23	2,503.11	193.12	13.961		
14,400.00	7,730.00	13,443.35	7,590.47	97.92	100.32	87.27	-4,359.95	-482.09	2,696.33	2,501.98	194.35	13.874		
14,500.00	7,730.00	13,501.44	7,590.71	99.51	101.30	87.27	-4,418.03	-482.91	2,697.45	2,500.93	196.52	13.726		
14,600.00	7,730.00	13,553.13	7,590.69	101.11	102.17	87.27	-4,469.70	-484.58	2,700.33	2,501.87	198.46	13.606		
14,700.00	7,730.00	13,676.34	7,589.70	102.72	104.24	87.26	-4,592.81	-489.30	2,703.90	2,501.46	202.43	13.357		
14,800.00	7,730.00	13,831.25	7,589.36	104.33	106.86	87.25	-4,747.69	-492.56	2,705.60	2,498.30	207.29	13.052		
14,900.00	7,730.00	13,984.37	7,589.60	105.94	109.47	87.26	-4,900.80	-493.49	2,706.05	2,493.99	212.07	12.760		
15,000.00	7,730.00	14,074.39	7,591.12	107.56	111.01	87.29	-4,990.80	-492.91	2,704.99	2,489.82	215.17	12.571		
15,049.67	7,730.00	14,104.79	7,591.62	108.37	111.53	87.30	-5,021.20	-492.90	2,704.79	2,488.46	216.33	12.503		
15,100.00	7,730.00	14,131.05	7,592.14	109.18	111.98	87.31	-5,047.45	-493.13	2,705.01	2,487.65	217.36	12.445		
15,200.00	7,730.00	14,187.64	7,593.55	110.81	112.95	87.34	-5,104.01	-494.41	2,706.78	2,487.27	219.50	12.331		
15,300.00	7,730.00	14,273.57	7,595.85	112.44	114.41	87.39	-5,189.86	-497.21	2,709.56	2,487.09	222.47	12.180		
15,400.00	7,730.00	14,376.50	7,598.77	114.08	116.16	87.46	-5,292.69	-500.70	2,712.48	2,486.55	225.93	12.006		
15,500.00	7,730.00	15,500.00	7,601.90	115.72	135.35	87.53	-5,425.73	-504.41	2,714.84	2,467.62	247.22	10.982		
15,600.00	7,730.00	14,649.47	7,603.81	117.36	120.82	87.57	-5,565.55	-505.39	2,714.88	2,480.09	234.79	11.563		
15,700.00	7,730.00	14,735.75	7,604.56	119.00	122.31	87.58	-5,651.82	-506.43	2,715.65	2,477.85	237.80	11.420		
15,800.00	7,730.00	14,905.51	7,606.38	120.65	125.23	87.62	-5,821.56	-505.65	2,714.62	2,471.53	243.09	11.167		
15,900.00	7,730.00	15,017.12	7,607.03	122.30	127.16	87.63	-5,933.15	-503.79	2,712.58	2,465.79	246.80	10.991		
16,000.00	7,730.00	15,136.46	7,607.35	123.96	129.23	87.64	-6,052.47	-501.09	2,709.98	2,459.28	250.70	10.810		
16,100.00	7,730.00	15,202.64	7,607.49	125.61	130.38	87.64	-6,118.62	-499.59	2,707.44	2,454.20	253.25	10.691		
16,200.00	7,730.00	15,264.48	7,608.15	127.27	131.45	87.65	-6,180.46	-499.28	2,706.51	2,450.87	255.64	10.587		
16,300.00	7,730.00	15,358.10	7,609.43	128.94	133.06	87.68	-6,274.07	-499.54	2,706.38	2,447.50	258.88	10.454		
16,400.00	7,730.00	15,479.93	7,611.20	130.60	135.17	87.72	-6,395.89	-499.48	2,705.94	2,443.03	262.91	10.292		
16,500.00	7,730.00	15,587.05	7,612.15	132.27	137.03	87.74	-6,503.00	-498.67	2,704.80	2,438.27	266.53	10.148		
16,600.00	7,730.00	15,682.61	7,612.51	133.94	138.68	87.74	-6,598.55	-497.96	2,703.71	2,433.87	269.84	10.020		
16,700.00	7,730.00	15,796.47	7,612.45	135.61	140.66	87.74	-6,712.41	-496.95	2,702.48	2,428.85	273.64	9.876		
16,800.00	7,730.00	15,920.82	7,611.71	137.28	142.82	87.72	-6,836.75	-495.00	2,700.62	2,422.92	277.70	9.725		
16,900.00	7,730.00	16,047.11	7,610.55	138.96	145.02	87.69	-6,962.98	-491.65	2,697.66	2,415.86	281.80	9.573		
17,000.00	7,730.00	16,102.06	7,609.96	140.64	145.98	87.68	-7,017.92	-490.41	2,695.10	2,411.03	284.08	9.487		
17,100.00	7,730.00	16,168.92	7,609.52	142.32	147.14	87.67	-7,084.77	-490.02	2,694.14	2,407.53	286.61	9.400		
17,200.00	7,730.00	16,260.41	7,608.84	144.00	148.73	87.66	-7,176.26	-490.05	2,693.85	2,404.05	289.80	9.295		
17,277.26	7,730.00	16,332.96	7,608.03	145.30	149.98	87.64	-7,248.81	-490.16	2,693.74	2,401.42	292.32	9.215		
17,300.00	7,730.00	16,351.32	7,607.97	145.69	150.30	87.64	-7,267.17	-490.23	2,693.76	2,400.78	292.98	9.194		
17,400.00	7,730.00	16,434.96	7,609.15	147.37	151.75	87.66	-7,350.79	-490.99	2,694.26	2,398.31	295.95	9.104		
17,500.00	7,730.00	16,526.38	7,611.85	149.06	153.34	87.72	-7,442.16	-492.29	2,695.22	2,396.06	299.16	9.009		
17,600.00	7,730.00	16,626.15	7,615.36	150.75	155.07	87.80	-7,541.85	-493.91	2,696.36	2,393.74	302.62	8.910		
17,700.00	7,730.00	16,725.95	7,619.19	152.44	156.80	87.88	-7,641.57	-495.45	2,697.42	2,391.34	306.09	8.813		
17,800.00	7,730.00	16,824.65	7,623.39	154.13	158.51	87.97	-7,740.17	-497.08	2,698.58	2,389.06	309.52	8.719		
17,900.00	7,730.00	16,934.87	7,627.54	155.83	160.42	88.06	-7,850.29	-498.72	2,699.60	2,386.30	313.30	8.617		
18,000.00	7,730.00	17,013.57	7,629.08	157.52	161.79	88.09	-7,928.97	-499.95	2,700.76	2,384.63	316.13	8.543		
18,100.00	7,730.00	17,099.49	7,630.19	159.22	163.27	88.12	-8,014.85	-501.88	2,702.62	2,383.47	319.15	8.468		
18,200.00	7,730.00	17,189.76	7,631.20	160.92	164.84	88.14	-8,105.09	-504.29	2,704.91	2,382.60	322.30	8.392		
18,300.00	7,730.00	17,274.98	7,631.77	162.62	166.31	88.15	-8,190.27	-506.90	2,707.62	2,382.33	325.29	8.324		
18,400.00	7,730.00	17,370.77	7,631.96	164.32	167.97	88.16	-8,286.00	-510.24	2,710.74	2,382.14	328.60	8.249		
18,426.22	7,730.00	17,393.11	7,631.94	164.76	168.35	88.16	-8,308.33	-511.02	2,711.58	2,382.20	329.38	8.232 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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-52.11	786.52	-1,010.78	1,280.78					
100.00	100.00	88.53	88.53	0.13	0.14	-52.11	786.51	-1,010.80	1,280.75	1,280.47	0.28	4,620.343	CC	
200.00	200.00	188.01	188.01	0.49	0.30	-52.12	786.49	-1,010.89	1,280.81	1,280.01	0.80	1,608.888		
300.00	300.00	284.71	284.71	0.85	0.57	-52.12	786.51	-1,011.07	1,280.97	1,279.55	1.42	903.075		
400.00	400.00	379.47	379.47	1.21	0.90	-52.12	786.85	-1,011.46	1,281.51	1,279.40	2.11	606.377	ES	
500.00	500.00	474.22	474.21	1.57	1.24	-52.11	787.54	-1,012.06	1,282.46	1,279.65	2.81	456.678		
600.00	600.00	568.96	568.94	1.93	1.58	-52.10	788.58	-1,012.88	1,283.82	1,280.31	3.50	366.500		
700.00	700.00	669.79	669.76	2.29	1.93	-52.08	789.79	-1,013.91	1,285.36	1,281.14	4.22	304.624		
800.00	800.00	766.21	766.17	2.64	2.28	-52.07	791.05	-1,014.93	1,287.00	1,282.08	4.92	261.527		
900.00	900.00	877.13	877.01	3.00	2.67	-51.92	794.67	-1,014.17	1,288.48	1,282.81	5.67	227.339		
1,000.00	1,000.00	983.69	983.24	3.36	3.04	-51.55	801.59	-1,009.42	1,288.99	1,282.59	6.40	201.387		
1,100.00	1,100.00	1,079.24	1,078.38	3.72	3.38	-51.15	808.86	-1,004.36	1,289.62	1,282.51	7.10	181.579		
1,200.00	1,200.00	1,198.86	1,197.39	4.08	3.82	-50.62	818.40	-997.13	1,290.01	1,282.11	7.90	163.326		
1,266.72	1,266.72	1,261.41	1,259.64	4.32	4.05	-97.51	822.97	-992.98	1,289.79	1,281.43	8.37	154.152		
1,300.00	1,299.98	1,295.32	1,293.39	4.43	4.18	-97.40	825.41	-990.84	1,289.83	1,281.22	8.61	149.772		
1,379.07	1,378.95	1,382.79	1,380.21	4.71	4.51	-97.12	833.19	-983.60	1,289.80	1,280.58	9.22	139.865		
1,400.00	1,399.84	1,397.73	1,395.02	4.79	4.57	-97.08	834.65	-982.30	1,289.87	1,280.51	9.36	137.873		
1,500.00	1,499.45	1,493.39	1,489.79	5.15	4.94	-96.85	844.56	-973.89	1,290.87	1,280.78	10.09	127.953		
1,600.00	1,598.70	1,590.48	1,585.48	5.51	5.34	-96.61	856.88	-963.06	1,292.03	1,281.18	10.85	119.100		
1,700.00	1,697.47	1,668.70	1,662.46	5.89	5.67	-96.48	867.87	-954.61	1,294.78	1,283.23	11.55	112.106		
1,800.00	1,795.62	1,749.68	1,742.18	6.28	6.01	-96.44	880.06	-947.25	1,299.79	1,287.51	12.28	105.845		
1,900.00	1,893.06	1,855.42	1,846.06	6.69	6.47	-96.52	897.01	-937.15	1,305.53	1,292.38	13.15	99.284		
2,000.00	1,989.64	1,943.02	1,932.10	7.13	6.85	-96.67	911.04	-928.54	1,311.52	1,297.56	13.97	93.901		
2,100.00	2,085.27	2,029.12	2,016.76	7.61	7.23	-96.96	925.16	-921.80	1,319.66	1,304.85	14.81	89.113		
2,200.00	2,179.82	2,179.14	2,163.98	8.12	7.90	-97.71	949.89	-907.00	1,327.07	1,311.08	15.99	82.969		
2,300.00	2,273.17	2,254.19	2,237.57	8.67	8.24	-98.12	962.04	-898.68	1,333.75	1,316.87	16.88	79.016		
2,400.00	2,365.21	2,333.37	2,315.24	9.27	8.60	-98.63	975.32	-890.83	1,342.49	1,324.67	17.82	75.323		
2,500.00	2,455.84	2,409.17	2,389.61	9.92	8.95	-99.18	988.39	-884.40	1,353.51	1,334.72	18.79	72.032		
2,580.62	2,527.80	2,472.70	2,451.98	10.49	9.23	-99.70	999.65	-879.87	1,364.18	1,344.57	19.61	69.556		
2,600.00	2,544.97	2,488.42	2,467.41	10.63	9.30	-99.90	1,002.44	-878.84	1,366.94	1,347.12	19.82	68.982		
2,700.00	2,633.58	2,567.17	2,544.80	11.37	9.66	-100.86	1,016.33	-874.40	1,382.17	1,361.31	20.86	66.264		
2,800.00	2,722.19	2,669.12	2,645.00	12.13	10.11	-102.10	1,034.41	-869.33	1,398.60	1,376.56	22.04	63.452		
2,900.00	2,810.80	2,792.40	2,765.81	12.91	10.68	-103.47	1,057.26	-860.27	1,414.06	1,390.69	23.37	60.515		
3,000.00	2,899.41	2,946.88	2,917.43	13.71	11.40	-105.16	1,083.07	-846.03	1,427.90	1,403.05	24.85	57.471		
3,100.00	2,988.02	3,031.71	3,000.88	14.52	11.78	-106.12	1,095.30	-837.00	1,439.69	1,413.72	25.97	55.437		
3,200.00	3,076.63	3,172.29	3,139.20	15.34	12.41	-107.70	1,113.99	-820.24	1,450.12	1,422.78	27.34	53.035		
3,300.00	3,165.24	3,261.11	3,226.75	16.16	12.81	-108.72	1,124.68	-809.82	1,460.97	1,432.50	28.48	51.307		
3,400.00	3,253.85	3,365.66	3,329.74	17.00	13.27	-109.89	1,137.30	-796.99	1,471.94	1,442.27	29.67	49.608		
3,500.00	3,342.46	3,449.13	3,411.76	17.84	13.65	-110.77	1,148.40	-786.20	1,483.42	1,452.65	30.78	48.197		
3,600.00	3,431.07	3,532.21	3,493.62	18.69	14.03	-111.67	1,158.97	-776.78	1,496.51	1,464.63	31.87	46.952		
3,700.00	3,519.68	3,617.72	3,577.68	19.55	14.42	-112.54	1,171.15	-766.94	1,510.54	1,477.56	32.97	45.813		
3,800.00	3,608.29	3,706.43	3,665.23	20.40	14.81	-113.49	1,182.46	-758.13	1,525.85	1,491.78	34.07	44.788		
3,900.00	3,696.90	3,819.54	3,776.46	21.26	15.33	-114.60	1,198.68	-745.57	1,541.20	1,505.91	35.29	43.674		
4,000.00	3,785.51	3,896.96	3,852.44	22.13	15.69	-115.31	1,210.36	-736.41	1,556.60	1,520.27	36.33	42.846		
4,100.00	3,874.12	3,963.00	3,917.58	23.00	15.99	-115.97	1,219.32	-730.25	1,574.10	1,536.82	37.29	42.217		
4,200.00	3,962.73	4,073.81	4,026.88	23.87	16.48	-117.06	1,234.48	-720.21	1,592.30	1,553.84	38.46	41.403		
4,300.00	4,051.34	4,165.17	4,116.78	24.74	16.90	-117.88	1,248.11	-711.36	1,610.72	1,571.19	39.54	40.741		
4,400.00	4,139.95	4,262.03	4,212.06	25.62	17.34	-118.74	1,262.80	-701.92	1,629.51	1,588.88	40.64	40.097		
4,500.00	4,228.56	4,348.14	4,296.64	26.49	17.74	-119.45	1,276.53	-693.38	1,648.72	1,607.04	41.68	39.559		
4,600.00	4,317.17	4,433.35	4,380.69	27.37	18.12	-120.21	1,288.58	-686.37	1,669.30	1,626.62	42.68	39.108		
4,700.00	4,405.78	4,538.65	4,484.35	28.25	18.60	-121.09	1,304.23	-676.43	1,689.28	1,645.48	43.80	38.568		
4,800.00	4,494.39	4,628.82	4,573.28	29.13	19.00	-121.86	1,317.04	-668.88	1,710.45	1,665.64	44.81	38.169		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,583.00	4,754.89	4,697.55	30.02	19.57	-122.90	1,334.38	-656.72	1,730.68	1,684.67	46.01	37.613		
5,000.00	4,671.61	4,825.56	4,767.08	30.90	19.89	-123.45	1,344.83	-649.56	1,751.05	1,704.14	46.91	37.328		
5,100.00	4,760.22	4,964.39	4,903.65	31.79	20.53	-124.50	1,365.21	-635.46	1,771.76	1,723.58	48.18	36.773		
5,200.00	4,848.83	5,044.79	4,982.48	32.67	20.91	-125.06	1,378.01	-626.14	1,791.47	1,742.33	49.14	36.455		
5,300.00	4,937.44	5,112.77	5,049.36	33.56	21.22	-125.55	1,388.03	-619.26	1,812.63	1,762.63	50.00	36.251		
5,400.00	5,026.05	5,230.57	5,165.26	34.45	21.77	-126.39	1,405.42	-607.32	1,833.99	1,782.86	51.14	35.864		
5,500.00	5,114.66	5,320.07	5,253.42	35.34	22.18	-127.03	1,418.10	-598.54	1,855.85	1,803.75	52.10	35.622		
5,600.00	5,203.27	5,458.35	5,389.15	36.23	22.82	-127.96	1,438.07	-581.31	1,875.03	1,821.71	53.32	35.163		
5,700.00	5,291.88	5,522.29	5,452.00	37.12	23.12	-128.39	1,447.07	-573.78	1,895.57	1,841.44	54.14	35.015		
5,800.00	5,380.50	5,599.16	5,527.84	38.01	23.46	-128.93	1,457.09	-566.25	1,918.01	1,863.02	54.99	34.880		
5,900.00	5,469.11	5,689.74	5,617.05	38.90	23.87	-129.53	1,469.82	-557.06	1,940.54	1,884.63	55.92	34.705		
6,000.00	5,557.72	5,757.47	5,683.98	39.79	24.17	-130.00	1,478.34	-551.23	1,964.59	1,907.91	56.68	34.659		
6,100.00	5,646.33	5,871.72	5,796.89	40.68	24.67	-130.77	1,492.78	-541.39	1,988.93	1,931.21	57.72	34.459		
6,200.00	5,734.94	5,955.13	5,878.70	41.58	25.06	-131.21	1,506.90	-533.48	2,012.96	1,954.34	58.62	34.340		
6,300.00	5,823.55	6,022.68	5,945.16	42.47	25.37	-131.59	1,517.81	-528.23	2,038.61	1,979.21	59.40	34.320		
6,400.00	5,912.16	6,139.86	6,060.36	43.36	25.91	-132.22	1,536.58	-517.87	2,063.28	2,002.78	60.51	34.100		
6,500.00	6,000.77	6,201.13	6,120.82	44.26	26.18	-132.57	1,545.42	-513.36	2,089.58	2,028.37	61.21	34.137		
6,600.00	6,089.38	6,322.64	6,240.69	45.15	26.72	-133.25	1,562.92	-503.87	2,115.63	2,053.32	62.31	33.956		
6,700.00	6,177.99	6,428.74	6,345.54	46.05	27.19	-133.87	1,576.69	-495.29	2,141.68	2,078.41	63.27	33.851		
6,800.00	6,266.60	6,560.31	6,475.21	46.94	27.78	-134.58	1,595.20	-482.91	2,166.66	2,102.26	64.40	33.644		
6,900.00	6,355.21	6,666.91	6,579.97	47.84	28.28	-135.12	1,610.79	-470.94	2,189.97	2,124.58	65.39	33.491		
7,000.00	6,443.82	6,724.00	6,636.04	48.74	28.54	-135.38	1,619.94	-465.36	2,214.81	2,148.73	66.08	33.517		
7,100.00	6,532.43	6,773.16	6,684.40	49.63	28.76	-135.60	1,627.88	-461.48	2,241.57	2,174.88	66.69	33.612		
7,200.00	6,621.04	6,921.35	6,830.52	50.53	29.43	-136.31	1,649.84	-450.45	2,269.41	2,201.45	67.95	33.397		
7,300.00	6,709.65	6,992.00	6,899.96	51.42	29.76	-136.61	1,661.07	-443.83	2,295.21	2,226.50	68.71	33.404		
7,400.00	6,798.26	7,438.00	7,334.75	52.32	31.49	-139.85	1,674.21	-372.32	2,314.98	2,244.71	70.27	32.942		
7,500.00	6,886.87	7,438.00	7,334.75	53.22	31.49	-139.85	1,674.21	-372.32	2,330.04	2,259.19	70.85	32.886		
7,600.00	6,975.48	7,469.37	7,364.30	54.12	31.53	-140.28	1,665.66	-366.18	2,348.56	2,277.34	71.21	32.979		
7,656.30	7,025.36	7,482.37	7,376.47	54.62	31.54	-140.47	1,661.72	-363.92	2,360.44	2,289.05	71.40	33.060		
7,700.00	7,064.54	7,492.43	7,385.87	55.00	31.56	-148.78	1,658.50	-362.29	2,370.37	2,298.85	71.52	33.141		
7,750.00	7,110.29	7,527.00	7,417.87	55.40	31.60	-160.48	1,646.38	-357.47	2,382.77	2,311.20	71.57	33.292		
7,800.00	7,156.67	7,527.00	7,417.87	55.75	31.60	-173.64	1,646.38	-357.47	2,395.05	2,323.34	71.71	33.399		
7,850.00	7,203.34	7,527.00	7,417.87	56.05	31.60	172.07	1,646.38	-357.47	2,408.00	2,336.19	71.81	33.531		
7,900.00	7,249.95	7,527.00	7,417.87	56.30	31.60	157.97	1,646.38	-357.47	2,421.52	2,349.62	71.89	33.683		
7,950.00	7,296.14	7,527.00	7,417.87	56.50	31.60	145.26	1,646.38	-357.47	2,435.47	2,363.53	71.94	33.854		
8,000.00	7,341.56	7,560.90	7,448.77	56.64	31.60	134.41	1,632.87	-354.09	2,448.74	2,376.85	71.89	34.062		
8,050.00	7,385.86	7,571.81	7,458.59	56.74	31.60	125.59	1,628.17	-353.32	2,462.49	2,390.60	71.89	34.255		
8,100.00	7,428.71	7,582.71	7,468.33	56.79	31.60	118.42	1,623.31	-352.70	2,476.14	2,404.26	71.88	34.450		
8,150.00	7,469.77	7,616.00	7,497.58	56.80	31.61	112.59	1,607.47	-351.77	2,490.04	2,418.23	71.80	34.679		
8,200.00	7,508.75	7,616.00	7,497.58	56.77	31.61	107.75	1,607.47	-351.77	2,502.86	2,431.04	71.82	34.851		
8,250.00	7,545.33	7,616.00	7,497.58	56.70	31.61	103.68	1,607.47	-351.77	2,515.50	2,443.67	71.83	35.021		
8,300.00	7,579.25	7,637.12	7,515.78	56.59	31.59	100.36	1,596.75	-351.72	2,527.69	2,455.90	71.79	35.211		
8,350.00	7,610.24	7,660.26	7,535.46	56.45	31.58	97.62	1,584.58	-351.84	2,539.10	2,467.36	71.75	35.389		
8,400.00	7,638.06	7,683.10	7,554.60	56.28	31.56	95.36	1,572.12	-352.16	2,549.69	2,477.97	71.72	35.550		
8,450.00	7,662.52	7,707.71	7,574.90	56.09	31.55	93.52	1,558.22	-352.70	2,559.39	2,487.69	71.70	35.696		
8,500.00	7,683.41	8,500.00	7,628.73	55.88	30.95	92.53	1,516.98	-353.66	2,567.42	2,496.31	71.11	36.104		
8,550.00	7,700.59	7,900.33	7,720.86	55.64	31.34	92.54	1,433.06	-353.20	2,573.38	2,502.37	71.01	36.240		
8,600.00	7,713.91	7,941.98	7,748.54	55.39	31.28	92.03	1,401.95	-352.58	2,577.74	2,506.85	70.90	36.360		
8,650.00	7,723.29	7,973.00	7,768.05	55.14	31.23	91.71	1,377.84	-352.06	2,580.81	2,509.96	70.85	36.425		
8,700.00	7,728.64	8,001.08	7,784.87	54.87	31.18	91.63	1,355.36	-351.77	2,582.90	2,512.06	70.84	36.460		
8,740.83	7,730.00	8,017.33	7,794.22	54.65	31.15	91.67	1,342.07	-351.77	2,584.03	2,513.15	70.88	36.454		
8,800.00	7,730.00	8,041.17	7,807.42	54.33	31.11	91.96	1,322.22	-351.99	2,585.74	2,514.79	70.95	36.446		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,500.00	7,730.00	12,761.30	7,960.81	83.84	84.45	95.33	-3,370.50	-375.86	2,603.62	2,438.97	164.66	15.813		
13,600.00	7,730.00	12,870.24	7,961.25	85.37	86.23	95.33	-3,479.35	-380.30	2,607.38	2,439.29	168.08	15.512		
13,700.00	7,730.00	13,700.00	7,954.84	86.92	100.06	95.19	-3,744.67	-383.34	2,608.28	2,423.13	185.15	14.087		
13,800.00	7,730.00	13,348.16	7,946.70	88.47	94.20	95.03	-3,956.67	-373.51	2,602.61	2,420.88	181.73	14.321		
13,900.00	7,730.00	13,487.66	7,943.77	90.03	96.58	94.99	-4,095.77	-363.34	2,594.85	2,408.93	185.92	13.957		
14,000.00	7,730.00	13,682.46	7,944.53	91.59	99.92	95.05	-4,289.47	-342.95	2,583.84	2,392.57	191.27	13.509		
14,100.00	7,730.00	13,762.05	7,945.79	93.16	101.29	95.09	-4,368.48	-333.50	2,571.84	2,377.67	194.17	13.245		
14,200.00	7,730.00	13,827.45	7,946.75	94.74	102.42	95.13	-4,433.49	-326.45	2,560.92	2,364.17	196.76	13.016		
14,300.00	7,730.00	13,875.00	7,947.50	96.33	103.24	95.16	-4,480.82	-321.94	2,551.52	2,352.62	198.90	12.828		
14,400.00	7,730.00	13,943.84	7,948.52	97.92	104.42	95.19	-4,549.44	-316.55	2,543.64	2,342.14	201.49	12.624		
14,500.00	7,730.00	14,000.53	7,949.23	99.51	105.40	95.21	-4,606.03	-313.19	2,537.52	2,333.76	203.76	12.454		
14,600.00	7,730.00	14,053.00	7,950.00	101.11	106.29	95.24	-4,658.44	-310.93	2,533.09	2,327.24	205.85	12.305		
14,700.00	7,730.00	14,109.91	7,950.79	102.72	107.26	95.26	-4,715.33	-309.50	2,530.45	2,322.44	208.01	12.165		
14,797.25	7,730.00	14,160.05	7,951.32	104.28	108.11	95.27	-4,765.46	-309.22	2,529.68	2,319.78	209.90	12.052		
14,800.00	7,730.00	14,161.41	7,951.33	104.33	108.14	95.27	-4,766.82	-309.22	2,529.68	2,319.73	209.95	12.049		
14,900.00	7,730.00	14,210.94	7,951.62	105.94	108.97	95.27	-4,816.35	-309.97	2,530.89	2,319.13	211.76	11.952		
15,000.00	7,730.00	14,283.64	7,951.71	107.56	110.19	95.27	-4,889.00	-312.40	2,533.82	2,319.59	214.23	11.828		
15,100.00	7,730.00	14,396.66	7,951.50	109.18	112.09	95.26	-5,001.96	-316.43	2,537.04	2,319.09	217.95	11.640		
15,200.00	7,730.00	14,599.81	7,953.02	110.81	115.54	95.29	-5,205.07	-318.16	2,537.45	2,313.10	224.35	11.310		
15,300.00	7,730.00	14,677.00	7,954.66	112.44	116.86	95.33	-5,282.24	-317.66	2,536.65	2,309.60	227.05	11.172		
15,349.58	7,730.00	14,716.47	7,955.52	113.25	117.53	95.35	-5,321.70	-317.59	2,536.52	2,308.10	228.41	11.105		
15,400.00	7,730.00	14,752.98	7,956.26	114.08	118.16	95.37	-5,358.20	-317.75	2,536.65	2,306.96	229.69	11.044		
15,500.00	7,730.00	14,826.01	7,957.45	115.72	119.40	95.39	-5,431.21	-318.68	2,537.74	2,305.51	232.23	10.928		
15,600.00	7,730.00	14,897.82	7,958.08	117.36	120.62	95.40	-5,502.99	-320.42	2,539.89	2,305.19	234.70	10.822		
15,700.00	7,730.00	14,975.70	7,958.21	119.00	121.94	95.40	-5,580.83	-323.23	2,543.14	2,305.80	237.34	10.715		
15,800.00	7,730.00	15,101.96	7,959.32	120.65	124.07	95.42	-5,706.99	-327.89	2,546.65	2,305.12	241.53	10.544		
15,900.00	7,730.00	15,219.51	7,963.28	122.30	126.08	95.50	-5,824.44	-330.38	2,548.72	2,303.28	245.44	10.384		
16,000.00	7,730.00	15,331.19	7,967.68	123.96	127.99	95.60	-5,936.03	-332.18	2,550.36	2,301.19	249.17	10.236		
16,100.00	7,730.00	15,431.87	7,970.92	125.61	129.71	95.67	-6,036.65	-333.50	2,551.65	2,299.09	252.56	10.103		
16,200.00	7,730.00	15,534.60	7,974.08	127.27	131.47	95.73	-6,139.31	-335.06	2,553.13	2,297.11	256.02	9.973		
16,300.00	7,730.00	15,657.83	7,978.08	128.94	133.59	95.82	-6,262.47	-336.13	2,553.98	2,293.88	260.10	9.819		
16,400.00	7,730.00	15,748.17	7,980.89	130.60	135.14	95.88	-6,352.77	-336.68	2,554.56	2,291.37	263.19	9.706		
16,500.00	7,730.00	15,850.74	7,984.53	132.27	136.91	95.96	-6,455.27	-337.27	2,555.17	2,288.52	266.65	9.582		
16,600.00	7,730.00	15,928.56	7,987.08	133.94	138.25	96.02	-6,533.04	-338.13	2,556.27	2,286.91	269.35	9.490		
16,700.00	7,730.00	16,013.01	7,989.77	135.61	139.70	96.08	-6,617.43	-339.69	2,558.10	2,285.85	272.25	9.396		
16,800.00	7,730.00	16,097.89	7,992.64	137.28	141.15	96.14	-6,702.24	-341.75	2,560.53	2,285.39	275.14	9.306		
16,900.00	7,730.00	16,177.75	7,995.27	138.96	142.52	96.19	-6,782.02	-344.23	2,563.64	2,285.78	277.86	9.226		
17,000.00	7,730.00	16,247.71	7,997.34	140.64	143.72	96.23	-6,851.89	-347.10	2,567.71	2,287.48	280.23	9.163		
17,100.00	7,730.00	16,331.55	7,999.61	142.32	145.14	96.27	-6,935.58	-351.49	2,572.84	2,289.80	283.05	9.090		
17,200.00	7,730.00	16,421.43	8,002.16	144.00	146.67	96.32	-7,025.30	-356.42	2,578.28	2,292.21	286.07	9.013		
17,300.00	7,730.00	16,512.92	8,003.86	145.69	148.23	96.34	-7,116.60	-361.99	2,584.19	2,295.04	289.15	8.937		
17,400.00	7,730.00	16,613.99	8,005.43	147.37	149.95	96.36	-7,217.46	-368.28	2,590.21	2,297.63	292.57	8.853		
17,500.00	7,730.00	16,706.16	8,006.50	149.06	151.52	96.37	-7,309.44	-374.09	2,596.27	2,300.59	295.68	8.781		
17,600.00	7,730.00	16,893.23	8,005.05	150.75	154.71	96.32	-7,496.22	-384.11	2,601.45	2,299.35	302.10	8.611		
17,700.00	7,730.00	17,076.27	8,000.13	152.44	157.87	96.20	-7,679.16	-387.29	2,602.36	2,294.24	308.12	8.446		
17,800.00	7,730.00	17,211.33	7,993.98	154.13	160.21	96.07	-7,814.07	-387.14	2,601.43	2,288.85	312.58	8.322		
17,900.00	7,730.00	17,384.83	7,989.37	155.83	163.23	95.98	-7,987.43	-383.24	2,598.71	2,280.72	317.98	8.172		
18,000.00	7,730.00	17,542.55	7,994.36	157.52	166.01	96.11	-8,144.80	-374.04	2,592.75	2,269.98	322.78	8.033		
18,100.00	7,730.00	17,652.90	7,998.98	159.22	167.95	96.23	-8,254.78	-366.32	2,585.90	2,259.46	326.44	7.922		
18,200.00	7,730.00	17,760.09	8,003.53	160.92	169.84	96.35	-8,361.57	-358.36	2,578.63	2,248.60	330.03	7.813		
18,300.00	7,730.00	17,796.00	8,005.06	162.62	170.48	96.39	-8,397.35	-355.65	2,572.07	2,240.07	332.00	7.747		
18,400.00	7,730.00	17,796.00	8,005.06	164.32	170.48	96.39	-8,397.35	-355.65	2,569.14	2,236.38	332.75	7.721		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,425.34	7,730.00	17,796.00	8,005.06	164.75	170.48	96.39	-8,397.35	-355.65	2,569.01	2,236.14	332.87	7.718	
18,426.22	7,730.00	17,796.00	8,005.06	164.76	170.48	96.39	-8,397.35	-355.65	2,569.01	2,236.14	332.87	7.718 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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
18,426.22	7,730.00	17,487.00	7,752.00	164.76	170.05	90.79	-8,398.07	-270.80	2,468.42	2,135.69	332.73	7.419 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,800.00	7,730.00	8,114.03	7,828.97	54.33	33.57	92.98	1,178.08	95.13	2,138.33	2,068.43	69.90	30.593		
8,885.84	7,730.00	8,154.00	7,842.94	53.89	33.50	93.35	1,140.66	96.07	2,137.49	2,067.40	70.09	30.496		
8,900.00	7,730.00	8,154.00	7,842.94	53.82	33.50	93.35	1,140.66	96.07	2,137.53	2,067.36	70.17	30.461		
9,000.00	7,730.00	8,211.48	7,856.56	53.33	33.37	93.71	1,084.87	95.77	2,139.24	2,068.96	70.28	30.441		
9,100.00	7,730.00	8,281.90	7,863.32	52.87	33.21	93.89	1,014.86	93.43	2,142.81	2,072.56	70.25	30.505		
9,200.00	7,730.00	8,369.79	7,865.11	52.44	33.03	93.93	927.09	89.31	2,147.27	2,077.16	70.12	30.624		
9,300.00	7,730.00	8,623.27	7,861.40	52.03	32.91	93.82	673.85	82.74	2,151.01	2,081.57	69.44	30.978		
9,400.00	7,730.00	8,794.50	7,856.89	51.65	33.40	93.71	502.78	88.38	2,147.42	2,077.56	69.87	30.737		
9,500.00	7,730.00	8,868.92	7,854.35	51.29	33.78	93.65	428.51	92.46	2,141.61	2,071.11	70.49	30.381		
9,600.00	7,730.00	8,925.00	7,852.52	50.95	34.10	93.61	372.48	93.64	2,138.56	2,067.43	71.13	30.065		
9,679.96	7,730.00	8,944.72	7,851.92	50.70	34.22	93.59	352.77	93.58	2,137.85	2,066.26	71.59	29.861		
9,700.00	7,730.00	8,954.33	7,851.64	50.64	34.28	93.58	343.16	93.48	2,137.96	2,066.24	71.72	29.810		
9,800.00	7,730.00	9,014.00	7,850.20	50.35	34.66	93.54	283.54	91.81	2,140.02	2,067.59	72.43	29.545		
9,900.00	7,730.00	9,079.95	7,848.83	50.09	35.11	93.50	217.67	88.84	2,143.85	2,070.62	73.24	29.273		
10,000.00	7,730.00	9,189.17	7,846.45	49.86	35.93	93.43	108.60	83.78	2,148.02	2,073.63	74.40	28.872		
10,100.00	7,730.00	9,304.29	7,843.94	49.65	36.91	93.36	-6.41	79.27	2,151.46	2,075.66	75.80	28.384		
10,200.00	7,730.00	9,410.61	7,841.62	49.48	37.89	93.29	-112.65	75.64	2,154.40	2,077.11	77.29	27.876		
10,300.00	7,730.00	9,505.54	7,839.54	49.35	38.83	93.23	-207.50	72.50	2,157.24	2,078.47	78.78	27.384		
10,400.00	7,730.00	9,633.74	7,836.67	49.27	40.16	93.15	-335.60	68.34	2,160.12	2,079.29	80.83	26.725		
10,500.00	7,730.00	9,948.69	7,828.59	49.26	43.93	92.95	-650.01	81.11	2,152.79	2,066.68	86.11	24.999		
10,600.00	7,730.00	10,045.62	7,826.56	49.32	45.18	92.91	-746.64	88.41	2,144.82	2,056.59	88.23	24.308		
10,700.00	7,730.00	10,265.65	7,821.41	49.51	48.19	92.80	-965.28	112.15	2,133.14	2,040.39	92.76	22.997		
10,800.00	7,730.00	10,308.39	7,820.20	49.83	48.79	92.78	-1,007.71	117.16	2,120.86	2,026.78	94.07	22.545		
10,900.00	7,730.00	10,350.00	7,819.01	50.31	49.38	92.75	-1,049.11	121.09	2,111.08	2,015.74	95.35	22.142		
11,000.00	7,730.00	10,398.05	7,817.64	50.96	50.05	92.72	-1,097.03	124.38	2,103.89	2,007.16	96.73	21.750		
11,100.00	7,730.00	10,640.39	7,811.21	51.75	53.53	92.57	-1,338.47	142.47	2,097.85	1,995.55	102.30	20.506		
11,200.00	7,730.00	10,707.00	7,809.35	52.66	54.53	92.52	-1,404.66	149.74	2,086.33	1,982.09	104.24	20.015		
11,300.00	7,730.00	10,774.49	7,807.44	53.67	55.54	92.48	-1,471.82	156.06	2,076.34	1,970.15	106.19	19.552		
11,400.00	7,730.00	10,828.48	7,805.89	54.75	56.35	92.44	-1,525.60	160.56	2,067.71	1,959.88	107.83	19.175		
11,500.00	7,730.00	10,885.00	7,804.30	55.89	57.19	92.40	-1,582.02	163.46	2,061.81	1,952.30	109.51	18.827		
11,600.00	7,730.00	10,920.50	7,803.30	57.07	57.71	92.38	-1,617.50	164.36	2,058.37	1,947.74	110.64	18.605		
11,696.52	7,730.00	10,974.00	7,801.78	58.25	58.50	92.33	-1,670.97	164.56	2,057.46	1,945.30	112.16	18.343		
11,700.00	7,730.00	10,974.00	7,801.78	58.30	58.50	92.33	-1,670.97	164.56	2,057.46	1,945.30	112.17	18.343		
11,800.00	7,730.00	11,015.05	7,800.61	59.55	59.09	92.30	-1,712.00	163.67	2,059.10	1,945.77	113.32	18.170		
11,900.00	7,730.00	11,063.00	7,799.28	60.84	59.78	92.26	-1,759.87	161.30	2,063.46	1,948.85	114.62	18.003		
12,000.00	7,730.00	11,104.48	7,798.20	62.15	60.37	92.23	-1,801.22	158.15	2,070.48	1,954.81	115.67	17.899		
12,100.00	7,730.00	11,152.00	7,797.06	63.49	61.04	92.19	-1,848.47	153.34	2,080.11	1,963.26	116.85	17.801		
12,200.00	7,730.00	11,233.54	7,796.26	64.85	62.18	92.16	-1,929.45	143.77	2,091.45	1,972.40	119.05	17.568		
12,300.00	7,730.00	11,733.36	7,800.29	66.22	69.75	92.26	-2,427.25	135.99	2,089.03	1,955.44	133.59	15.637		
12,400.00	7,730.00	12,400.00	7,801.03	67.62	80.56	92.29	-2,547.89	145.22	2,081.08	1,934.98	146.10	14.244		
12,500.00	7,730.00	11,934.46	7,801.44	69.03	73.00	92.31	-2,627.71	151.85	2,072.62	1,932.84	139.78	14.827		
12,600.00	7,730.00	12,017.69	7,802.11	70.45	74.36	92.34	-2,710.76	157.25	2,065.79	1,923.35	142.44	14.503		
12,700.00	7,730.00	12,107.54	7,802.99	71.90	75.82	92.37	-2,800.44	162.77	2,059.36	1,914.08	145.28	14.175		
12,800.00	7,730.00	12,212.41	7,803.95	73.35	77.54	92.40	-2,905.12	168.91	2,053.21	1,904.64	148.56	13.820		
12,900.00	7,730.00	12,316.40	7,804.87	74.81	79.24	92.44	-3,008.90	175.38	2,046.69	1,894.85	151.84	13.479		
13,000.00	7,730.00	12,415.17	7,805.76	76.29	80.87	92.47	-3,107.48	181.52	2,040.18	1,885.19	154.99	13.163		
13,100.00	7,730.00	12,529.54	7,806.68	77.78	82.77	92.51	-3,221.60	189.11	2,033.24	1,874.64	158.60	12.820		
13,200.00	7,730.00	12,665.38	7,807.54	79.28	85.04	92.54	-3,357.03	199.51	2,025.35	1,862.52	162.83	12.438		
13,300.00	7,730.00	12,756.00	7,807.58	80.79	86.57	92.56	-3,447.21	208.38	2,015.34	1,849.53	165.81	12.154		
13,400.00	7,730.00	12,817.08	7,807.72	82.31	87.60	92.57	-3,508.06	213.65	2,006.90	1,838.95	167.94	11.950		
13,500.00	7,730.00	12,845.00	7,807.89	83.84	88.07	92.57	-3,535.94	215.15	2,001.80	1,832.81	168.99	11.846		
13,600.00	7,730.00	12,901.35	7,808.34	85.37	88.99	92.59	-3,592.26	216.53	1,999.36	1,828.56	170.80	11.706		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,700.00	7,730.00	13,700.00	7,808.95	86.92	102.14	92.61	-3,686.66	216.58	1,998.98	1,813.42	185.55	10.773		
13,800.00	7,730.00	13,149.64	7,809.23	88.47	93.10	92.62	-3,840.49	220.31	1,995.81	1,816.94	178.87	11.158		
13,900.00	7,730.00	13,239.94	7,809.57	90.03	94.61	92.63	-3,930.76	222.69	1,992.84	1,811.01	181.83	10.960		
14,000.00	7,730.00	13,325.13	7,809.98	91.59	96.03	92.65	-4,015.93	224.76	1,990.13	1,805.52	184.62	10.780		
14,100.00	7,730.00	13,404.91	7,810.28	93.16	97.36	92.66	-4,095.70	225.53	1,988.78	1,801.56	187.22	10.623		
14,200.00	7,730.00	13,543.19	7,810.83	94.74	99.67	92.68	-4,233.96	227.85	1,986.81	1,795.01	191.79	10.359		
14,300.00	7,730.00	13,642.23	7,810.98	96.33	101.33	92.69	-4,332.95	230.61	1,983.69	1,788.63	195.07	10.169		
14,400.00	7,730.00	13,712.52	7,811.03	97.92	102.51	92.69	-4,403.23	231.97	1,981.44	1,784.06	197.38	10.039		
14,500.00	7,730.00	13,794.05	7,811.40	99.51	103.88	92.70	-4,484.77	232.42	1,980.54	1,780.49	200.05	9.900		
14,555.11	7,730.00	13,838.39	7,811.67	100.39	104.62	92.71	-4,529.10	232.44	1,980.35	1,778.85	201.49	9.828		
14,600.00	7,730.00	13,867.98	7,811.91	101.11	105.11	92.72	-4,558.69	232.24	1,980.52	1,778.09	202.43	9.784		
14,700.00	7,730.00	14,027.90	7,814.51	102.72	107.79	92.79	-4,718.57	231.98	1,980.80	1,772.94	207.86	9.529		
14,800.00	7,730.00	14,111.06	7,816.39	104.33	109.20	92.85	-4,801.69	233.26	1,979.03	1,768.40	210.63	9.396		
14,900.00	7,730.00	14,209.57	7,818.97	105.94	110.86	92.93	-4,900.16	234.29	1,977.77	1,763.84	213.93	9.245		
15,000.00	7,730.00	14,325.38	7,822.22	107.56	112.83	93.02	-5,015.91	236.06	1,976.05	1,758.21	217.84	9.071		
15,100.00	7,730.00	14,568.18	7,828.21	109.18	117.01	93.22	-5,258.20	249.42	1,970.39	1,744.73	225.66	8.732		
15,200.00	7,730.00	14,654.94	7,830.28	110.81	118.52	93.29	-5,344.57	257.36	1,961.09	1,732.39	228.70	8.575		
15,300.00	7,730.00	14,717.00	7,831.74	112.44	119.60	93.35	-5,406.43	262.05	1,953.35	1,722.36	230.99	8.456		
15,400.00	7,730.00	14,761.77	7,832.78	114.08	120.37	93.38	-5,451.13	264.36	1,947.98	1,715.35	232.63	8.374		
15,500.00	7,730.00	15,500.00	7,834.74	115.72	133.07	93.44	-5,548.88	267.34	1,944.70	1,697.71	246.99	7.874		
15,600.00	7,730.00	15,019.99	7,836.02	117.36	124.84	93.50	-5,708.91	277.70	1,937.15	1,695.87	241.28	8.029		
15,700.00	7,730.00	15,073.00	7,836.36	119.00	125.76	93.52	-5,761.83	280.65	1,931.35	1,688.15	243.20	7.941		
15,800.00	7,730.00	15,126.79	7,836.85	120.65	126.68	93.54	-5,815.59	282.35	1,927.95	1,682.93	245.01	7.869		
15,876.63	7,730.00	15,162.00	7,837.18	121.92	127.28	93.55	-5,850.80	282.71	1,927.04	1,680.96	246.09	7.831		
15,900.00	7,730.00	15,162.00	7,837.18	122.30	127.28	93.55	-5,850.80	282.71	1,927.19	1,681.21	245.98	7.835		
16,000.00	7,730.00	15,225.12	7,837.75	123.96	128.35	93.56	-5,913.90	281.69	1,928.83	1,680.97	247.86	7.782		
16,100.00	7,730.00	15,281.52	7,838.21	125.61	129.29	93.57	-5,970.24	279.00	1,933.20	1,683.85	249.36	7.753		
16,200.00	7,730.00	15,356.48	7,838.77	127.27	130.54	93.58	-6,045.03	274.07	1,939.41	1,687.81	251.60	7.708		
16,300.00	7,730.00	15,466.88	7,839.67	128.94	132.37	93.59	-6,155.20	267.04	1,945.45	1,690.02	255.43	7.616		
16,400.00	7,730.00	15,555.19	7,840.10	130.60	133.84	93.59	-6,243.31	260.98	1,951.97	1,693.70	258.27	7.558		
16,500.00	7,730.00	15,639.74	7,840.39	132.27	135.24	93.59	-6,327.64	254.92	1,958.85	1,697.93	260.92	7.507		
16,600.00	7,730.00	15,697.00	7,840.87	133.94	136.19	93.60	-6,384.69	250.06	1,967.19	1,704.95	262.24	7.502		
16,700.00	7,730.00	15,752.80	7,841.39	135.61	137.09	93.60	-6,440.17	244.11	1,977.71	1,714.34	263.37	7.509		
16,800.00	7,730.00	16,231.00	7,845.83	137.28	145.08	93.70	-6,913.58	224.65	1,986.83	1,705.00	281.83	7.050		
16,900.00	7,730.00	16,276.81	7,845.95	138.96	145.88	93.71	-6,959.28	227.85	1,980.42	1,696.80	283.62	6.983		
17,000.00	7,730.00	16,320.00	7,845.87	140.64	146.63	93.71	-7,002.45	228.34	1,978.14	1,693.02	285.12	6.938		
17,028.46	7,730.00	16,320.00	7,845.87	141.12	146.63	93.71	-7,002.45	228.34	1,977.94	1,692.89	285.04	6.939		
17,100.00	7,730.00	16,320.00	7,845.87	142.32	146.63	93.71	-7,002.45	228.34	1,979.23	1,694.62	284.61	6.954		
17,200.00	7,730.00	16,362.13	7,845.70	144.00	147.33	93.70	-7,044.54	226.54	1,983.81	1,698.37	285.44	6.950		
17,300.00	7,730.00	16,409.00	7,845.52	145.69	148.11	93.69	-7,091.18	221.94	1,992.40	1,706.12	286.28	6.960		
17,400.00	7,730.00	16,454.64	7,845.40	147.37	148.86	93.67	-7,136.46	216.26	2,003.64	1,716.76	286.87	6.984		
17,500.00	7,730.00	16,563.97	7,845.06	149.06	150.65	93.64	-7,245.02	203.28	2,015.11	1,724.36	290.75	6.931		
17,600.00	7,730.00	16,655.57	7,843.67	150.75	152.16	93.58	-7,335.95	192.34	2,026.61	1,732.91	293.69	6.900		
17,700.00	7,730.00	16,772.90	7,840.62	152.44	154.08	93.47	-7,452.40	178.31	2,038.08	1,740.09	297.99	6.840		
17,800.00	7,730.00	16,873.04	7,837.38	154.13	155.74	93.36	-7,551.83	166.92	2,048.90	1,747.52	301.38	6.798		
17,900.00	7,730.00	16,968.93	7,833.50	155.83	157.32	93.23	-7,647.00	155.79	2,059.93	1,755.36	304.56	6.764		
18,000.00	7,730.00	17,077.81	7,828.60	157.52	159.12	93.08	-7,755.07	143.51	2,070.62	1,762.20	308.41	6.714		
18,100.00	7,730.00	17,179.81	7,823.40	159.22	160.81	92.92	-7,856.30	132.16	2,081.14	1,769.23	311.91	6.672		
18,200.00	7,730.00	17,289.10	7,817.36	160.92	162.63	92.74	-7,964.78	120.29	2,091.40	1,775.62	315.77	6.623		
18,300.00	7,730.00	17,390.48	7,811.33	162.62	164.31	92.56	-8,065.41	109.62	2,101.32	1,782.08	319.24	6.582		
18,400.00	7,730.00	17,505.26	7,803.38	164.32	166.23	92.33	-8,179.33	97.99	2,110.83	1,787.47	323.36	6.528		
18,426.22	7,730.00	17,533.37	7,801.28	164.76	166.70	92.27	-8,207.22	95.24	2,113.23	1,788.89	324.34	6.516 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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-51.27	786.52	-980.82	1,257.28					
100.00	100.00	87.60	87.60	0.13	0.15	-51.28	786.47	-980.87	1,257.24	1,256.96	0.28	4,486.367		
200.00	200.00	187.14	187.14	0.49	0.31	-51.29	786.30	-981.07	1,257.29	1,256.49	0.80	1,563.026		
300.00	300.00	286.68	286.68	0.85	0.48	-51.31	786.01	-981.42	1,257.38	1,256.05	1.33	946.427		
400.00	400.00	384.42	384.41	1.21	0.77	-51.33	785.70	-981.88	1,257.55	1,255.57	1.98	636.654		
500.00	500.00	481.32	481.32	1.57	1.11	-51.35	785.68	-982.41	1,257.96	1,255.28	2.68	469.702		
600.00	600.00	577.02	577.01	1.93	1.44	-51.35	786.16	-982.87	1,258.65	1,255.28	3.37	373.325		
700.00	700.00	730.72	730.61	2.29	1.97	-51.15	788.29	-978.77	1,257.46	1,253.21	4.25	295.608		
800.00	800.00	844.02	843.44	2.64	2.37	-50.74	792.27	-969.43	1,253.22	1,248.22	5.01	250.304		
900.00	900.00	944.14	942.72	3.00	2.74	-50.18	798.93	-958.35	1,248.88	1,243.15	5.73	217.780		
1,000.00	1,000.00	1,050.64	1,047.75	3.36	3.16	-49.41	808.70	-943.70	1,244.24	1,237.73	6.51	191.088		
1,100.00	1,100.00	1,154.18	1,149.16	3.72	3.60	-48.47	820.77	-926.64	1,239.38	1,232.08	7.31	169.644		
1,200.00	1,200.00	1,246.88	1,239.79	4.08	4.02	-47.59	831.98	-910.78	1,234.66	1,226.59	8.08	152.849		
1,300.00	1,299.98	1,342.48	1,332.71	4.43	4.47	-93.83	845.84	-893.10	1,230.99	1,222.11	8.89	138.529		
1,400.00	1,399.84	1,426.85	1,414.11	4.79	4.90	-93.05	860.03	-876.04	1,228.26	1,218.59	9.67	127.057		
1,500.00	1,499.45	1,532.11	1,515.43	5.15	5.45	-92.18	878.99	-854.74	1,226.83	1,216.25	10.58	116.004		
1,600.00	1,598.70	1,667.63	1,645.92	5.51	6.18	-91.31	900.24	-825.01	1,222.67	1,211.01	11.66	104.857		
1,700.00	1,697.47	1,753.10	1,728.37	5.89	6.64	-90.96	913.43	-806.71	1,219.11	1,206.61	12.50	97.507		
1,800.00	1,795.62	1,887.27	1,857.39	6.28	7.39	-90.54	933.82	-776.12	1,214.66	1,201.03	13.63	89.133		
1,900.00	1,893.06	1,964.93	1,932.06	6.69	7.82	-90.47	944.99	-757.92	1,209.29	1,194.81	14.48	83.509		
2,000.00	1,989.64	2,067.58	2,031.15	7.13	8.39	-90.56	960.20	-735.92	1,205.58	1,190.09	15.48	77.858		
2,100.00	2,085.27	2,158.91	2,119.32	7.61	8.90	-90.80	973.44	-716.08	1,201.47	1,185.01	16.46	72.995		
2,200.00	2,179.82	2,273.52	2,229.81	8.12	9.54	-91.25	990.25	-690.72	1,197.27	1,179.67	17.60	68.033		
2,300.00	2,273.17	2,358.02	2,311.37	8.67	10.01	-91.76	1,002.41	-672.23	1,193.19	1,174.57	18.62	64.089		
2,400.00	2,365.21	2,431.66	2,382.73	9.27	10.41	-92.34	1,013.29	-657.66	1,191.08	1,171.47	19.61	60.744		
2,440.44	2,402.04	2,462.73	2,412.91	9.53	10.58	-92.62	1,017.99	-652.03	1,190.90	1,170.87	20.03	59.462		
2,500.00	2,455.84	2,508.84	2,457.82	9.92	10.81	-93.09	1,024.98	-644.23	1,191.29	1,170.65	20.64	57.715		
2,580.62	2,527.80	2,570.68	2,518.17	10.49	11.12	-93.78	1,034.49	-634.64	1,193.11	1,171.62	21.49	55.508		
2,600.00	2,544.97	2,585.44	2,532.59	10.63	11.20	-93.96	1,036.78	-632.50	1,193.78	1,172.08	21.70	55.007		
2,700.00	2,633.58	2,787.36	2,728.47	11.37	12.28	-96.28	1,066.02	-593.79	1,193.53	1,170.08	23.45	50.894		
2,800.00	2,722.19	2,866.14	2,804.32	12.13	12.73	-97.10	1,077.09	-575.59	1,190.44	1,165.80	24.64	48.313		
2,900.00	2,810.80	2,980.54	2,914.36	12.91	13.39	-98.29	1,092.69	-548.45	1,187.02	1,161.02	26.00	45.653		
3,000.00	2,899.41	3,063.39	2,994.34	13.71	13.86	-99.21	1,103.41	-529.68	1,184.45	1,157.24	27.21	43.522		
3,100.00	2,988.02	3,149.98	3,077.83	14.52	14.35	-100.14	1,115.57	-510.26	1,183.18	1,154.74	28.44	41.596		
3,122.31	3,007.78	3,166.77	3,094.04	14.70	14.45	-100.32	1,118.01	-506.60	1,183.13	1,154.42	28.71	41.213 CC		
3,200.00	3,076.63	3,227.54	3,152.88	15.34	14.79	-101.00	1,126.71	-494.17	1,183.81	1,154.18	29.62	39.960		
3,300.00	3,165.24	3,332.82	3,254.74	16.16	15.37	-102.17	1,142.02	-472.40	1,185.04	1,154.11	30.93	38.313 ES		
3,400.00	3,253.85	3,420.52	3,339.87	17.00	15.85	-103.19	1,154.12	-455.14	1,187.13	1,154.99	32.14	36.939		
3,500.00	3,342.46	3,514.48	3,430.85	17.84	16.36	-104.22	1,168.08	-436.26	1,189.93	1,156.56	33.37	35.657		
3,600.00	3,431.07	3,607.84	3,521.46	18.69	16.87	-105.28	1,181.87	-418.52	1,194.02	1,159.43	34.59	34.518		
3,700.00	3,519.68	3,710.19	3,620.72	19.55	17.42	-106.43	1,196.42	-398.26	1,197.61	1,161.77	35.84	33.413		
3,800.00	3,608.29	3,812.59	3,719.94	20.40	17.98	-107.54	1,211.84	-378.16	1,202.26	1,165.16	37.09	32.413		
3,900.00	3,696.90	3,948.23	3,850.89	21.26	18.75	-108.98	1,231.22	-348.63	1,205.11	1,166.63	38.48	31.316		
4,000.00	3,785.51	4,056.40	3,955.01	22.13	19.38	-110.12	1,245.59	-323.02	1,206.23	1,166.49	39.74	30.356		
4,100.00	3,874.12	4,120.05	4,016.49	23.00	19.73	-110.81	1,253.90	-308.85	1,208.88	1,168.09	40.78	29.641		
4,200.00	3,962.73	4,210.27	4,103.97	23.87	20.23	-111.81	1,266.14	-290.48	1,213.87	1,171.96	41.92	28.960		
4,300.00	4,051.34	4,282.82	4,174.09	24.74	20.63	-112.55	1,277.26	-275.59	1,219.99	1,177.03	42.95	28.402		
4,400.00	4,139.95	4,362.52	4,251.64	25.62	21.06	-113.42	1,289.12	-261.54	1,228.76	1,184.77	43.99	27.932		
4,500.00	4,228.56	4,487.49	4,372.83	26.49	21.74	-114.68	1,308.94	-238.37	1,237.67	1,192.40	45.27	27.342		
4,600.00	4,317.17	4,613.61	4,494.68	27.37	22.45	-115.94	1,327.73	-211.80	1,244.16	1,197.64	46.52	26.743		
4,700.00	4,405.78	4,719.89	4,597.05	28.25	23.06	-116.97	1,343.02	-187.70	1,249.37	1,201.70	47.67	26.208		
4,800.00	4,494.39	4,813.98	4,687.63	29.13	23.61	-117.87	1,356.91	-166.37	1,255.07	1,206.31	48.76	25.739		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,583.00	4,923.75	4,793.34	30.02	24.25	-118.92	1,372.70	-141.38	1,260.93	1,211.04	49.89	25.273		
5,000.00	4,671.61	5,016.13	4,882.16	30.90	24.79	-119.79	1,385.99	-119.74	1,266.50	1,215.55	50.94	24.861		
5,100.00	4,760.22	5,094.53	4,957.69	31.79	25.24	-120.52	1,397.55	-102.15	1,273.44	1,221.52	51.92	24.528		
5,200.00	4,848.83	5,174.37	5,034.86	32.67	25.69	-121.26	1,409.43	-85.50	1,282.25	1,229.38	52.87	24.254		
5,300.00	4,937.44	5,274.49	5,131.63	33.56	26.25	-122.16	1,425.19	-65.23	1,292.19	1,238.29	53.90	23.973		
5,400.00	5,026.05	5,360.69	5,215.21	34.45	26.72	-122.99	1,437.29	-47.94	1,302.26	1,247.43	54.82	23.753		
5,500.00	5,114.66	5,443.05	5,295.28	35.34	27.16	-123.78	1,448.87	-32.50	1,313.91	1,258.21	55.70	23.589		
5,600.00	5,203.27	5,522.18	5,420.55	36.23	27.86	-124.94	1,468.06	-7.82	1,325.88	1,269.07	56.81	23.339		
5,700.00	5,291.88	5,671.79	5,516.88	37.12	28.42	-125.82	1,482.50	13.02	1,336.18	1,278.41	57.77	23.130		
5,800.00	5,380.50	5,755.96	5,598.53	38.01	28.88	-126.60	1,493.79	30.06	1,347.26	1,288.65	58.62	22.985		
5,900.00	5,469.11	5,850.01	5,689.96	38.90	29.39	-127.47	1,506.15	48.33	1,359.44	1,299.96	59.48	22.855		
6,000.00	5,557.72	5,972.20	5,808.36	39.79	30.06	-128.56	1,522.48	73.72	1,370.60	1,310.14	60.46	22.668		
6,100.00	5,646.33	6,072.39	5,905.35	40.68	30.62	-129.45	1,535.44	95.22	1,381.43	1,320.09	61.34	22.522		
6,200.00	5,734.94	6,159.01	5,989.17	41.58	31.10	-130.19	1,547.03	113.73	1,392.72	1,330.57	62.15	22.410		
6,300.00	5,823.55	6,248.41	6,075.99	42.47	31.58	-130.99	1,558.13	131.94	1,405.20	1,342.26	62.93	22.328		
6,400.00	5,912.16	6,334.58	6,159.56	43.36	32.05	-131.69	1,570.06	149.24	1,418.40	1,354.68	63.72	22.260		
6,500.00	6,000.77	6,451.89	6,273.24	44.26	32.70	-132.61	1,587.11	172.60	1,432.16	1,367.50	64.66	22.149		
6,600.00	6,089.38	6,553.21	6,371.04	45.15	33.28	-133.35	1,602.52	194.11	1,444.80	1,379.26	65.54	22.045		
6,700.00	6,177.99	6,620.13	6,435.93	46.05	33.64	-133.86	1,611.84	207.58	1,458.69	1,392.48	66.21	22.031		
6,800.00	6,266.60	6,752.91	6,564.49	46.94	34.38	-134.85	1,630.72	234.79	1,472.48	1,405.28	67.19	21.914		
6,900.00	6,355.21	6,852.50	6,660.32	47.84	34.96	-135.48	1,647.52	256.07	1,485.69	1,417.61	68.08	21.822		
7,000.00	6,443.82	7,170.00	6,961.92	48.74	36.78	-138.51	1,670.22	343.09	1,495.21	1,426.60	68.61	21.794		
7,033.01	6,473.07	7,194.19	6,983.94	49.03	36.86	-139.00	1,664.72	351.45	1,494.83	1,426.17	68.65	21.773		
7,100.00	6,532.43	7,217.15	7,004.84	49.63	36.94	-139.48	1,658.71	358.83	1,495.89	1,426.91	68.98	21.685		
7,200.00	6,621.04	7,260.00	7,043.69	50.53	37.09	-140.46	1,645.47	371.07	1,501.63	1,432.38	69.25	21.685		
7,300.00	6,709.65	7,260.00	7,043.69	51.42	37.09	-140.46	1,645.47	371.07	1,512.48	1,442.75	69.73	21.690		
7,400.00	6,798.26	7,306.25	7,085.51	52.32	37.17	-141.57	1,629.02	381.98	1,527.84	1,458.21	69.63	21.943		
7,500.00	6,886.87	7,349.00	7,124.14	53.22	37.24	-142.63	1,612.51	389.87	1,548.75	1,479.32	69.44	22.305		
7,600.00	6,975.48	7,349.00	7,124.14	54.12	37.24	-142.63	1,612.51	389.87	1,574.13	1,504.77	69.35	22.697		
7,656.30	7,025.36	7,381.29	7,153.12	54.62	37.26	-143.44	1,599.12	394.71	1,590.32	1,521.24	69.08	23.020		
7,700.00	7,064.54	7,396.46	7,166.63	55.00	37.27	-152.37	1,592.52	396.78	1,603.79	1,534.88	68.91	23.274		
7,750.00	7,110.29	7,414.50	7,182.57	55.40	37.29	-164.49	1,584.41	399.06	1,619.79	1,551.08	68.71	23.574		
7,800.00	7,156.67	7,438.00	7,203.18	55.75	37.30	-178.57	1,573.43	401.75	1,636.25	1,567.75	68.49	23.889		
7,850.00	7,203.34	7,464.97	7,226.55	56.05	37.30	166.30	1,560.29	404.65	1,652.79	1,584.52	68.27	24.209		
7,900.00	7,249.95	7,501.67	7,257.85	56.30	37.31	151.39	1,541.54	408.62	1,668.97	1,600.94	68.02	24.535		
7,950.00	7,296.14	7,543.38	7,292.64	56.50	37.31	138.01	1,519.00	413.19	1,684.54	1,616.77	67.77	24.857		
8,000.00	7,341.56	7,594.72	7,333.88	56.64	37.30	126.68	1,489.06	419.34	1,699.05	1,631.58	67.47	25.181		
8,050.00	7,385.86	7,635.20	7,364.98	56.74	37.29	117.57	1,463.70	424.61	1,712.35	1,645.13	67.22	25.474		
8,100.00	7,428.71	7,668.07	7,389.15	56.79	37.27	110.31	1,441.85	428.92	1,724.69	1,657.68	67.01	25.739		
8,150.00	7,469.77	7,705.00	7,415.06	56.80	37.26	104.44	1,415.98	433.72	1,735.99	1,669.21	66.78	25.996		
8,200.00	7,508.75	7,730.09	7,431.84	56.77	37.23	99.78	1,397.61	436.91	1,746.19	1,679.56	66.63	26.207		
8,250.00	7,545.33	7,758.70	7,450.12	56.70	37.20	95.98	1,375.88	440.44	1,755.28	1,688.80	66.48	26.405		
8,300.00	7,579.25	7,794.00	7,471.35	56.59	37.17	92.90	1,348.00	444.60	1,763.21	1,696.92	66.29	26.598		
8,350.00	7,610.24	7,794.00	7,471.35	56.45	37.17	90.47	1,348.00	444.60	1,770.09	1,703.72	66.38	26.667		
8,400.00	7,638.06	7,794.00	7,471.35	56.28	37.17	88.45	1,348.00	444.60	1,776.48	1,709.97	66.51	26.710		
8,450.00	7,662.52	7,833.67	7,493.17	56.09	37.10	86.92	1,315.09	448.28	1,780.81	1,714.43	66.38	26.826		
8,500.00	7,683.41	7,847.95	7,500.42	55.88	37.07	85.71	1,302.81	449.17	1,784.81	1,718.32	66.49	26.843		
8,550.00	7,700.59	7,883.00	7,516.80	55.64	37.01	84.93	1,271.86	450.40	1,788.25	1,721.80	66.44	26.913		
8,600.00	7,713.91	7,883.00	7,516.80	55.39	37.01	84.27	1,271.86	450.40	1,789.90	1,723.13	66.77	26.806		
8,650.00	7,723.29	7,908.64	7,527.77	55.14	36.95	84.06	1,248.69	450.83	1,790.78	1,723.88	66.91	26.766		
8,700.00	7,728.64	7,957.43	7,547.16	54.87	36.84	84.41	1,203.94	451.87	1,789.91	1,723.07	66.84	26.780		
8,740.83	7,730.00	7,973.00	7,552.94	54.65	36.81	84.70	1,189.49	452.25	1,787.99	1,720.93	67.05	26.665		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,800.00	7,730.00	8,013.17	7,567.19	54.33	36.72	85.15	1,151.94	452.90	1,784.94	1,717.72	67.22	26.553		
8,900.00	7,730.00	8,062.00	7,583.41	53.82	36.61	85.67	1,105.88	452.63	1,782.35	1,714.66	67.69	26.331		
9,000.00	7,730.00	8,158.00	7,612.43	53.33	36.41	86.60	1,014.39	451.11	1,781.53	1,713.79	67.74	26.300		
9,038.67	7,730.00	8,186.75	7,619.86	53.15	36.34	86.84	986.63	450.65	1,781.44	1,713.58	67.86	26.250		
9,100.00	7,730.00	8,236.19	7,630.19	52.87	36.25	87.17	938.29	449.76	1,781.67	1,713.70	67.97	26.212		
9,200.00	7,730.00	8,332.45	7,642.50	52.44	36.10	87.57	842.87	448.02	1,782.56	1,714.52	68.03	26.201		
9,300.00	7,730.00	8,419.52	7,650.10	52.03	35.99	87.82	756.16	446.21	1,783.95	1,715.68	68.27	26.132		
9,400.00	7,730.00	8,585.09	7,659.72	51.65	35.95	88.13	590.92	445.27	1,784.05	1,715.71	68.34	26.106		
9,500.00	7,730.00	8,689.80	7,660.17	51.29	36.10	88.14	486.24	447.18	1,781.86	1,713.00	68.86	25.878		
9,600.00	7,730.00	8,787.71	7,660.44	50.95	36.34	88.15	388.34	448.91	1,779.74	1,710.18	69.56	25.585		
9,700.00	7,730.00	8,892.36	7,660.57	50.64	36.75	88.15	283.71	450.82	1,777.58	1,707.13	70.45	25.233		
9,800.00	7,730.00	8,992.90	7,660.37	50.35	37.29	88.14	183.18	453.00	1,775.08	1,703.59	71.48	24.832		
9,900.00	7,730.00	9,093.42	7,660.35	50.09	37.96	88.14	82.69	454.89	1,772.86	1,700.19	72.67	24.394		
10,000.00	7,730.00	9,193.84	7,660.18	49.86	38.75	88.13	-17.71	457.10	1,770.33	1,696.31	74.01	23.920		
10,100.00	7,730.00	9,292.30	7,660.12	49.65	39.61	88.12	-116.15	459.08	1,767.97	1,692.51	75.47	23.427		
10,200.00	7,730.00	9,407.24	7,660.12	49.48	40.72	88.12	-231.05	461.80	1,765.28	1,688.01	77.26	22.848		
10,300.00	7,730.00	9,500.87	7,658.82	49.35	41.70	88.07	-324.64	464.46	1,762.15	1,683.24	78.91	22.331		
10,400.00	7,730.00	9,576.00	7,656.92	49.27	42.51	88.01	-399.73	465.66	1,760.24	1,679.90	80.34	21.910		
10,500.00	7,730.00	9,652.94	7,656.56	49.26	43.36	88.00	-476.67	465.78	1,759.68	1,677.82	81.86	21.495		
10,600.00	7,730.00	9,759.42	7,659.32	49.32	44.58	88.09	-583.11	465.55	1,759.48	1,675.46	84.02	20.942		
10,700.00	7,730.00	9,852.60	7,661.56	49.51	45.69	88.16	-676.26	465.32	1,759.30	1,673.28	86.01	20.453		
10,800.00	7,730.00	9,981.35	7,664.57	49.83	47.28	88.26	-804.98	465.92	1,758.43	1,669.58	88.85	19.791		
10,900.00	7,730.00	10,103.31	7,667.67	50.31	48.85	88.36	-926.87	468.35	1,756.00	1,664.32	91.68	19.153		
11,000.00	7,730.00	10,199.00	7,669.78	50.96	50.13	88.42	-1,022.49	471.33	1,752.51	1,658.50	94.01	18.641		
11,100.00	7,730.00	10,257.14	7,670.36	51.75	50.91	88.44	-1,080.62	472.40	1,750.59	1,655.13	95.46	18.338		
11,111.21	7,730.00	10,262.40	7,670.36	51.85	50.98	88.44	-1,085.88	472.39	1,750.57	1,654.97	95.60	18.312		
11,200.00	7,730.00	10,336.85	7,669.69	52.66	51.98	88.42	-1,160.31	471.34	1,751.45	1,654.02	97.43	17.977		
11,300.00	7,730.00	10,460.69	7,667.55	53.67	53.67	88.35	-1,284.13	470.94	1,751.45	1,650.89	100.55	17.418		
11,400.00	7,730.00	10,581.82	7,664.47	54.75	55.38	88.25	-1,405.21	472.27	1,750.04	1,646.34	103.70	16.876		
11,500.00	7,730.00	10,682.04	7,661.46	55.89	56.81	88.15	-1,505.38	473.49	1,748.58	1,642.23	106.35	16.442		
11,600.00	7,730.00	10,769.29	7,658.55	57.07	58.08	88.05	-1,592.57	475.03	1,746.66	1,637.98	108.68	16.071		
11,641.25	7,730.00	10,792.79	7,657.73	57.57	58.42	88.02	-1,616.05	475.10	1,746.45	1,637.15	109.30	15.979		
11,700.00	7,730.00	10,831.17	7,656.35	58.30	58.97	87.98	-1,654.40	474.72	1,746.87	1,636.56	110.30	15.837		
11,800.00	7,730.00	10,961.15	7,651.49	59.55	60.88	87.82	-1,784.29	474.25	1,746.97	1,633.05	113.92	15.335		
11,879.72	7,730.00	11,031.44	7,648.63	60.58	61.92	87.72	-1,854.52	474.52	1,746.55	1,630.69	115.86	15.075		
11,900.00	7,730.00	11,045.30	7,648.00	60.84	62.13	87.70	-1,868.36	474.47	1,746.59	1,630.36	116.23	15.027		
12,000.00	7,730.00	11,131.99	7,643.47	62.15	63.42	87.56	-1,954.93	473.37	1,747.69	1,629.06	118.63	14.733		
12,100.00	7,730.00	11,255.61	7,636.30	63.49	65.28	87.32	-2,078.34	472.67	1,748.18	1,626.00	122.17	14.309		
12,125.65	7,730.00	11,287.62	7,634.28	63.84	65.76	87.25	-2,110.29	472.78	1,748.08	1,624.98	123.10	14.201		
12,200.00	7,730.00	11,336.09	7,631.25	64.85	66.50	87.16	-2,158.66	472.48	1,748.40	1,623.98	124.42	14.053		
12,300.00	7,730.00	11,438.15	7,624.78	66.22	68.06	86.95	-2,260.51	471.36	1,749.50	1,622.14	127.36	13.737		
12,400.00	7,730.00	11,518.89	7,619.34	67.62	69.29	86.77	-2,341.05	470.35	1,750.79	1,621.17	129.63	13.506		
12,500.00	7,730.00	11,604.00	7,613.97	69.03	70.60	86.60	-2,425.97	468.32	1,753.20	1,621.15	132.05	13.277		
12,600.00	7,730.00	11,724.22	7,608.71	70.45	72.45	86.43	-2,546.04	465.34	1,755.63	1,619.94	135.69	12.939		
12,700.00	7,730.00	11,842.30	7,603.12	71.90	74.30	86.25	-2,663.98	464.00	1,756.73	1,617.44	139.29	12.612		
12,800.00	7,730.00	11,963.88	7,597.43	73.35	76.22	86.06	-2,785.42	463.86	1,756.83	1,613.80	143.03	12.283		
12,849.84	7,730.00	12,003.11	7,595.67	74.08	76.84	86.01	-2,824.61	464.06	1,756.59	1,612.40	144.19	12.182		
12,900.00	7,730.00	12,033.53	7,594.16	74.81	77.32	85.96	-2,855.00	463.89	1,756.87	1,611.83	145.04	12.113		
13,000.00	7,730.00	12,120.66	7,589.15	76.29	78.70	85.80	-2,941.96	462.19	1,758.83	1,611.20	147.63	11.914		
13,100.00	7,730.00	12,232.17	7,582.10	77.78	80.47	85.57	-3,053.25	460.78	1,760.22	1,609.15	151.07	11.652		
13,200.00	7,730.00	12,335.01	7,576.67	79.28	82.12	85.40	-3,155.93	459.68	1,761.36	1,607.12	154.24	11.419		
13,300.00	7,730.00	12,458.27	7,574.22	80.79	84.10	85.32	-3,279.15	458.98	1,761.73	1,603.53	158.21	11.136		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,400.00	7,730.00	12,571.38	7,573.05	82.31	85.94	85.28	-3,392.26	459.45	1,761.06	1,599.22	161.84	10.881		
13,500.00	7,730.00	12,681.35	7,571.60	83.84	87.73	85.23	-3,502.21	460.60	1,759.79	1,594.41	165.38	10.641		
13,594.93	7,730.00	12,748.85	7,570.68	85.29	88.83	85.20	-3,569.70	461.10	1,758.93	1,591.48	167.45	10.504		
13,600.00	7,730.00	12,752.18	7,570.63	85.37	88.89	85.19	-3,573.03	461.09	1,758.93	1,591.38	167.55	10.498		
13,700.00	7,730.00	12,830.44	7,569.52	86.92	90.16	85.16	-3,651.28	460.19	1,759.82	1,589.86	169.95	10.355		
13,800.00	7,730.00	12,930.64	7,569.48	88.47	91.79	85.16	-3,751.46	458.37	1,761.29	1,588.09	173.19	10.169		
13,900.00	7,730.00	13,039.68	7,569.40	90.03	93.57	85.16	-3,860.49	456.84	1,762.35	1,585.57	176.78	9.969		
14,000.00	7,730.00	13,164.71	7,569.18	91.59	95.63	85.16	-3,985.52	456.37	1,762.39	1,581.43	180.96	9.739		
14,100.00	7,730.00	13,259.87	7,570.03	93.16	97.21	85.18	-4,080.68	456.65	1,761.69	1,577.63	184.07	9.571		
14,124.65	7,730.00	13,278.60	7,570.45	93.55	97.51	85.20	-4,099.40	456.58	1,761.65	1,576.99	184.66	9.540		
14,200.00	7,730.00	13,345.78	7,572.74	94.74	98.63	85.27	-4,166.53	455.86	1,761.97	1,575.11	186.86	9.429		
14,300.00	7,730.00	13,468.47	7,577.65	96.33	100.66	85.43	-4,289.12	455.19	1,761.86	1,570.79	191.08	9.221		
14,364.63	7,730.00	13,518.78	7,579.75	97.35	101.50	85.50	-4,339.39	455.25	1,761.40	1,568.70	192.71	9.140		
14,400.00	7,730.00	13,537.51	7,580.39	97.92	101.81	85.52	-4,358.10	455.05	1,761.57	1,568.32	193.25	9.116		
14,500.00	7,730.00	13,595.61	7,581.75	99.51	102.77	85.57	-4,416.16	453.37	1,763.84	1,568.93	194.91	9.050		
14,600.00	7,730.00	13,701.79	7,583.44	101.11	104.52	85.63	-4,522.26	449.46	1,767.06	1,568.57	198.49	8.903		
14,700.00	7,730.00	13,813.97	7,584.62	102.72	106.37	85.68	-4,634.38	446.11	1,769.61	1,567.30	202.30	8.747		
14,800.00	7,730.00	13,938.25	7,583.63	104.33	108.44	85.65	-4,758.63	443.59	1,771.38	1,564.81	206.57	8.575		
14,900.00	7,730.00	14,052.14	7,580.97	105.94	110.35	85.56	-4,872.48	443.30	1,771.41	1,561.02	210.39	8.420		
15,000.00	7,730.00	14,120.00	7,579.40	107.56	111.48	85.51	-4,940.32	442.33	1,772.61	1,560.16	212.44	8.344		
15,100.00	7,730.00	14,231.09	7,577.21	109.18	113.34	85.45	-5,051.36	440.33	1,774.22	1,558.03	216.19	8.207		
15,200.00	7,730.00	14,318.63	7,577.25	110.81	114.81	85.45	-5,138.88	438.42	1,776.03	1,556.99	219.04	8.108		
15,300.00	7,730.00	14,416.42	7,577.78	112.44	116.45	85.48	-5,236.65	436.32	1,777.79	1,555.49	222.30	7.997		
15,400.00	7,730.00	14,496.52	7,578.81	114.08	117.79	85.51	-5,316.70	433.58	1,780.71	1,555.86	224.85	7.920		
15,500.00	7,730.00	14,622.03	7,580.55	115.72	119.89	85.58	-5,442.14	429.85	1,783.22	1,553.93	229.29	7.777		
15,600.00	7,730.00	14,752.62	7,579.77	117.36	122.09	85.56	-5,572.71	428.14	1,784.24	1,550.38	233.86	7.630		
15,700.00	7,730.00	14,878.20	7,578.65	119.00	124.23	85.52	-5,698.28	428.25	1,783.95	1,545.76	238.19	7.490		
15,800.00	7,730.00	15,020.77	7,579.11	120.65	126.67	85.53	-5,840.81	431.30	1,781.46	1,538.35	243.11	7.328		
15,900.00	7,730.00	15,121.49	7,579.78	122.30	128.40	85.54	-5,941.47	434.78	1,777.62	1,531.08	246.54	7.210		
16,000.00	7,730.00	15,222.68	7,580.15	123.96	130.14	85.54	-6,042.60	438.21	1,773.88	1,523.89	249.99	7.096		
16,100.00	7,730.00	15,330.67	7,580.45	125.61	132.01	85.54	-6,150.51	442.40	1,769.63	1,515.96	253.68	6.976		
16,200.00	7,730.00	15,425.49	7,580.50	127.27	133.65	85.53	-6,245.27	445.89	1,765.61	1,508.70	256.91	6.872		
16,300.00	7,730.00	15,525.50	7,580.47	128.94	135.37	85.52	-6,345.20	449.66	1,761.52	1,501.20	260.32	6.767		
16,400.00	7,730.00	15,625.60	7,580.11	130.60	137.10	85.50	-6,445.23	453.33	1,757.55	1,493.82	263.73	6.664		
16,500.00	7,730.00	15,712.43	7,581.16	132.27	138.61	85.52	-6,532.01	456.12	1,753.91	1,487.20	266.71	6.576		
16,600.00	7,730.00	15,777.82	7,583.48	133.94	139.73	85.59	-6,597.35	457.38	1,751.47	1,482.59	268.88	6.514		
16,652.86	7,730.00	15,808.14	7,585.02	134.82	140.25	85.64	-6,627.63	457.35	1,751.13	1,481.30	269.83	6.490		
16,700.00	7,730.00	15,837.60	7,586.77	135.61	140.76	85.70	-6,657.03	456.95	1,751.39	1,480.65	270.74	6.469		
16,800.00	7,730.00	15,908.67	7,591.01	137.28	141.96	85.84	-6,727.95	455.08	1,753.23	1,480.25	272.98	6.423		
16,900.00	7,730.00	15,989.06	7,594.25	138.96	143.33	85.96	-6,808.21	451.79	1,756.64	1,481.08	275.56	6.375		
17,000.00	7,730.00	16,084.66	7,597.39	140.64	144.94	86.07	-6,903.66	447.61	1,760.44	1,481.62	278.82	6.314		
17,100.00	7,730.00	16,176.10	7,599.90	142.32	146.49	86.16	-6,994.96	443.12	1,764.81	1,482.94	281.87	6.261		
17,200.00	7,730.00	16,282.56	7,602.61	144.00	148.29	86.26	-7,101.25	437.86	1,769.25	1,483.61	285.63	6.194		
17,300.00	7,730.00	16,386.19	7,605.06	145.69	150.05	86.35	-7,204.75	433.22	1,773.21	1,483.96	289.26	6.130		
17,400.00	7,730.00	16,482.84	7,606.91	147.37	151.69	86.41	-7,301.29	428.88	1,777.24	1,484.68	292.55	6.075		
17,500.00	7,730.00	16,584.36	7,608.04	149.06	153.41	86.46	-7,402.69	424.29	1,781.34	1,485.27	296.06	6.017		
17,600.00	7,730.00	16,678.14	7,608.37	150.75	155.00	86.48	-7,496.37	419.98	1,785.56	1,486.36	299.20	5.968		
17,700.00	7,730.00	16,778.60	7,608.08	152.44	156.71	86.48	-7,596.72	415.23	1,789.96	1,487.32	302.65	5.914		
17,800.00	7,730.00	16,962.40	7,618.23	154.13	159.85	86.81	-7,780.07	409.57	1,792.71	1,482.86	309.85	5.786		
17,900.00	7,730.00	17,073.79	7,626.91	155.83	161.78	87.09	-7,891.12	409.30	1,792.21	1,478.34	313.87	5.710		
18,000.00	7,730.00	17,213.28	7,635.57	157.52	164.20	87.36	-8,030.33	411.04	1,790.36	1,471.45	318.91	5.614		
18,100.00	7,730.00	17,318.08	7,640.57	159.22	166.03	87.52	-8,134.97	413.62	1,787.36	1,464.75	322.61	5.540		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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
18,200.00	7,730.00	17,431.03	7,645.37	160.92	168.00	87.66	-8,247.75	417.50	1,783.37	1,456.79	326.58	5.461	
18,300.00	7,730.00	17,537.35	7,649.06	162.62	169.86	87.78	-8,353.93	421.46	1,779.18	1,448.87	330.31	5.386	
18,400.00	7,730.00	17,583.00	7,650.55	164.32	170.66	87.82	-8,399.52	423.28	1,775.55	1,443.70	331.86	5.350 SF	
18,424.86	7,730.00	17,583.00	7,650.55	164.74	170.66	87.82	-8,399.52	423.28	1,775.38	1,443.65	331.73	5.352	
18,426.22	7,730.00	17,583.00	7,650.55	164.76	170.66	87.82	-8,399.52	423.28	1,775.38	1,443.66	331.72	5.352	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-50.99	786.52	-971.02	1,249.65				
100.00	100.00	88.66	88.66	0.13	0.15	-50.99	786.56	-970.96	1,249.57	1,249.29	0.28	4,433.929	
200.00	200.00	189.40	189.40	0.49	0.32	-50.98	786.71	-970.73	1,249.49	1,248.68	0.81	1,546.829	
300.00	300.00	290.14	290.14	0.85	0.48	-50.96	786.96	-970.34	1,249.35	1,248.01	1.33	936.735	
400.00	400.00	390.20	390.20	1.21	0.78	-50.94	787.12	-969.98	1,249.17	1,247.18	1.99	628.221	
500.00	500.00	489.99	489.99	1.57	1.12	-50.96	786.66	-970.13	1,249.00	1,246.31	2.69	463.916	
600.00	600.00	591.93	591.92	1.93	1.48	-51.02	785.54	-970.84	1,248.85	1,245.44	3.40	366.900	
700.00	700.00	729.14	729.06	2.29	1.96	-50.93	785.26	-967.34	1,246.62	1,242.38	4.24	293.705	
800.00	800.00	863.93	863.33	2.64	2.45	-50.48	789.05	-956.42	1,242.18	1,237.10	5.08	244.311	
900.00	900.00	966.27	964.61	3.00	2.85	-49.87	795.23	-943.21	1,236.09	1,230.26	5.83	212.068	
1,000.00	1,000.00	1,062.99	1,059.45	3.36	3.25	-49.03	805.21	-927.14	1,230.06	1,223.48	6.58	186.941	
1,100.00	1,100.00	1,157.86	1,151.30	3.72	3.68	-47.94	819.20	-907.99	1,224.56	1,217.19	7.37	166.258	
1,200.00	1,200.00	1,242.80	1,232.89	4.08	4.09	-46.85	833.77	-889.42	1,219.94	1,211.80	8.14	149.872	
1,300.00	1,299.98	1,373.93	1,359.09	4.43	4.76	-92.51	855.70	-861.38	1,216.32	1,207.15	9.16	132.750	
1,400.00	1,399.84	1,478.03	1,458.23	4.79	5.35	-91.40	873.39	-835.06	1,210.53	1,200.43	10.10	119.838	
1,500.00	1,499.45	1,560.30	1,536.11	5.15	5.84	-90.57	888.61	-813.34	1,205.61	1,194.66	10.95	110.088	
1,600.00	1,598.70	1,635.00	1,606.72	5.51	6.29	-89.89	903.89	-794.37	1,203.07	1,191.30	11.77	102.183	
1,700.00	1,697.47	1,730.71	1,697.52	5.89	6.87	-89.18	923.65	-771.47	1,202.01	1,189.28	12.73	94.418	
1,800.00	1,795.62	1,884.00	1,843.85	6.28	7.78	-88.45	950.67	-734.68	1,198.95	1,184.93	14.03	85.462	
1,900.00	1,893.06	2,017.48	1,971.68	6.69	8.57	-88.23	968.21	-700.53	1,191.17	1,175.96	15.21	78.336	
2,000.00	1,989.64	2,103.43	2,054.30	7.13	9.07	-88.36	978.45	-679.18	1,183.02	1,166.87	16.15	73.274	
2,100.00	2,085.27	2,201.22	2,148.41	7.61	9.63	-88.64	991.04	-655.79	1,176.09	1,158.91	17.18	68.475	
2,200.00	2,179.82	2,316.66	2,259.20	8.12	10.31	-89.14	1,004.58	-626.30	1,167.05	1,148.72	18.34	63.650	
2,300.00	2,273.17	2,392.81	2,332.49	8.67	10.75	-89.68	1,013.60	-607.71	1,159.03	1,139.70	19.33	59.967	
2,400.00	2,365.21	2,464.89	2,402.18	9.27	11.16	-90.32	1,022.91	-591.84	1,153.43	1,133.10	20.33	56.742	
2,500.00	2,455.84	2,541.10	2,475.94	9.92	11.57	-91.09	1,033.87	-576.18	1,150.15	1,128.77	21.38	53.793	
2,580.62	2,527.80	2,610.10	2,542.87	10.49	11.95	-91.87	1,044.38	-563.04	1,149.10	1,126.80	22.30	51.520	
2,600.00	2,544.97	2,637.78	2,569.64	10.63	12.11	-92.18	1,048.73	-557.53	1,148.86	1,126.26	22.59	50.848	
2,700.00	2,633.58	2,771.13	2,697.44	11.37	12.90	-93.49	1,070.47	-526.37	1,145.78	1,121.70	24.08	47.583	
2,800.00	2,722.19	2,848.16	2,771.19	12.13	13.36	-94.24	1,082.89	-507.90	1,142.52	1,117.25	25.28	45.201	
2,900.00	2,810.80	2,988.41	2,906.26	12.91	14.18	-95.77	1,102.16	-475.46	1,138.60	1,111.82	26.78	42.517	
3,000.00	2,899.41	3,081.53	2,995.84	13.71	14.72	-96.81	1,113.60	-452.81	1,133.33	1,105.27	28.06	40.390	
3,100.00	2,988.02	3,160.19	3,071.19	14.52	15.19	-97.61	1,125.07	-433.38	1,129.66	1,100.38	29.28	38.576	
3,200.00	3,076.63	3,241.13	3,149.20	15.34	15.67	-98.50	1,136.99	-415.34	1,128.24	1,097.73	30.51	36.982	
3,300.00	3,165.24	3,377.22	3,280.20	16.16	16.46	-100.00	1,156.65	-384.23	1,126.88	1,094.90	31.99	35.228	
3,400.00	3,253.85	3,462.58	3,362.55	17.00	16.94	-101.01	1,166.60	-364.06	1,123.55	1,090.34	33.21	33.836	
3,500.00	3,342.46	3,541.72	3,439.40	17.84	17.38	-102.03	1,175.59	-347.44	1,122.53	1,088.17	34.37	32.662	
3,502.71	3,344.86	3,543.95	3,441.55	17.87	17.39	-102.06	1,175.87	-346.97	1,122.53	1,088.13	34.40	32.631 CC	
3,600.00	3,431.07	3,634.07	3,528.61	18.69	17.90	-103.10	1,188.63	-327.48	1,123.11	1,087.51	35.60	31.544	
3,700.00	3,519.68	3,740.78	3,631.13	19.55	18.53	-104.22	1,205.29	-303.00	1,123.85	1,086.92	36.93	30.432	
3,800.00	3,608.29	3,857.55	3,743.16	20.40	19.23	-105.45	1,222.64	-274.99	1,123.71	1,085.42	38.29	29.346	
3,801.19	3,609.34	3,858.95	3,744.50	20.41	19.24	-105.47	1,222.84	-274.64	1,123.70	1,085.39	38.31	29.334 ES	
3,900.00	3,696.90	3,919.52	3,803.14	21.26	19.56	-106.20	1,230.73	-261.70	1,124.98	1,085.65	39.34	28.599	
4,000.00	3,785.51	4,003.04	3,884.77	22.13	20.00	-107.34	1,240.09	-246.74	1,129.00	1,088.58	40.42	27.930	
4,100.00	3,874.12	4,110.63	3,989.47	23.00	20.57	-108.70	1,253.64	-226.05	1,133.20	1,091.59	41.61	27.233	
4,200.00	3,962.73	4,220.88	4,095.63	23.87	21.21	-109.87	1,270.95	-201.90	1,137.00	1,094.12	42.88	26.517	
4,300.00	4,051.34	4,349.18	4,217.80	24.74	22.01	-111.02	1,293.09	-169.59	1,138.80	1,094.53	44.28	25.721	
4,400.00	4,139.95	4,445.60	4,310.13	25.62	22.60	-112.01	1,307.14	-145.68	1,140.21	1,094.74	45.47	25.079	
4,500.00	4,228.56	4,540.04	4,400.53	26.49	23.18	-112.97	1,321.05	-122.14	1,141.94	1,095.31	46.63	24.491	
4,600.00	4,317.17	4,617.34	4,474.46	27.37	23.65	-113.71	1,333.41	-103.24	1,145.00	1,097.29	47.71	24.002	
4,700.00	4,405.78	4,685.62	4,540.28	28.25	24.05	-114.42	1,344.06	-88.54	1,150.84	1,102.15	48.68	23.639	
4,800.00	4,494.39	4,772.34	4,624.30	29.13	24.52	-115.36	1,357.34	-71.70	1,158.89	1,109.19	49.70	23.317	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,583.00	4,957.06	4,802.94	30.02	25.56	-117.50	1,379.85	-30.65	1,163.57	1,112.53	51.04	22.797		
5,000.00	4,671.61	5,053.12	4,895.19	30.90	26.13	-118.58	1,390.61	-6.08	1,165.44	1,113.40	52.05	22.392		
5,100.00	4,760.22	5,129.59	4,968.75	31.79	26.58	-119.44	1,399.46	12.80	1,168.73	1,115.75	52.98	22.059		
5,200.00	4,848.83	5,203.39	5,040.00	32.67	27.00	-120.26	1,408.57	29.74	1,174.32	1,120.45	53.87	21.799		
5,300.00	4,937.44	5,275.13	5,109.47	33.56	27.40	-121.04	1,418.12	44.89	1,182.34	1,127.63	54.71	21.611		
5,400.00	5,026.05	5,375.47	5,206.83	34.45	27.95	-122.12	1,431.91	64.84	1,192.09	1,136.43	55.66	21.418		
5,500.00	5,114.66	5,481.05	5,308.81	35.34	28.55	-123.15	1,447.78	87.07	1,201.38	1,144.73	56.65	21.206		
5,600.00	5,203.27	5,606.99	5,430.20	36.23	29.28	-124.39	1,465.59	115.46	1,209.34	1,151.63	57.71	20.956		
5,700.00	5,291.88	5,695.20	5,515.01	37.12	29.79	-125.24	1,477.99	136.33	1,216.62	1,158.03	58.59	20.764		
5,800.00	5,380.50	5,774.81	5,591.92	38.01	30.25	-126.02	1,489.07	153.59	1,226.05	1,166.64	59.41	20.639		
5,900.00	5,469.11	5,898.76	5,712.00	38.90	30.94	-127.32	1,504.04	180.43	1,235.73	1,175.41	60.33	20.484		
6,000.00	5,557.72	5,982.44	5,792.71	39.79	31.42	-128.15	1,514.63	199.81	1,244.37	1,183.26	61.11	20.363		
6,100.00	5,646.33	6,063.47	5,870.93	40.68	31.88	-128.88	1,526.56	217.32	1,255.06	1,193.16	61.90	20.276		
6,200.00	5,734.94	6,138.77	5,943.67	41.58	32.30	-129.52	1,538.24	232.84	1,267.22	1,204.58	62.64	20.230		
6,300.00	5,823.55	6,233.87	6,036.25	42.47	32.81	-130.42	1,551.16	250.33	1,281.58	1,218.16	63.42	20.209		
6,400.00	5,912.16	6,352.30	6,151.91	43.36	33.40	-131.79	1,560.72	273.88	1,294.27	1,230.14	64.12	20.184		
6,500.00	6,000.77	6,483.83	6,280.18	44.26	34.08	-133.38	1,568.69	301.84	1,306.17	1,241.41	64.77	20.167		
6,600.00	6,089.38	6,601.44	6,393.71	45.15	34.75	-134.60	1,579.44	330.52	1,315.49	1,250.02	65.47	20.093		
6,700.00	6,177.99	6,673.29	6,462.63	46.05	35.17	-135.17	1,589.91	347.89	1,325.77	1,259.60	66.17	20.036		
6,800.00	6,266.60	6,760.31	6,546.45	46.94	35.69	-135.81	1,603.72	366.75	1,338.63	1,271.69	66.94	19.996		
6,900.00	6,355.21	6,947.43	6,723.66	47.84	36.90	-136.94	1,638.08	415.77	1,346.36	1,278.14	68.22	19.736		
7,000.00	6,443.82	7,000.00	6,929.77	48.74	37.26	-139.13	1,656.70	488.75	1,347.41	1,279.45	67.96	19.826		
7,073.83	6,509.24	7,215.87	6,974.53	49.40	38.65	-139.90	1,653.65	506.47	1,346.24	1,277.31	68.93	19.532		
7,100.00	6,532.43	7,228.49	6,986.28	49.63	38.72	-140.12	1,652.25	510.86	1,346.38	1,277.33	69.05	19.498		
7,200.00	6,621.04	7,258.00	7,013.78	50.53	38.88	-140.69	1,648.04	520.68	1,349.84	1,280.27	69.56	19.405		
7,300.00	6,709.65	7,299.00	7,052.10	51.42	39.02	-141.55	1,639.94	532.74	1,358.22	1,288.47	69.75	19.472		
7,400.00	6,798.26	7,348.00	7,097.92	52.32	39.19	-142.70	1,626.81	544.06	1,372.72	1,303.01	69.71	19.692		
7,500.00	6,886.87	7,348.00	7,097.92	53.22	39.19	-142.70	1,626.81	544.06	1,391.71	1,321.94	69.77	19.946		
7,600.00	6,975.48	7,380.66	7,128.25	54.12	39.23	-143.51	1,616.17	549.81	1,416.43	1,346.98	69.45	20.395		
7,656.30	7,025.36	7,395.23	7,141.69	54.62	39.25	-143.89	1,610.99	551.96	1,432.62	1,363.40	69.22	20.697		
7,700.00	7,064.54	7,406.48	7,152.04	55.00	39.27	-152.74	1,606.81	553.44	1,446.17	1,377.15	69.02	20.953		
7,750.00	7,110.29	7,437.00	7,179.86	55.40	39.31	-165.14	1,594.70	556.67	1,462.74	1,393.98	68.76	21.273		
7,800.00	7,156.67	7,437.00	7,179.86	55.75	39.31	-178.78	1,594.70	556.67	1,479.34	1,410.77	68.57	21.575		
7,850.00	7,203.34	7,437.00	7,179.86	56.05	39.31	166.44	1,594.70	556.67	1,496.76	1,428.41	68.36	21.896		
7,900.00	7,249.95	7,471.40	7,210.89	56.30	39.32	151.47	1,580.07	559.24	1,513.98	1,445.85	68.14	22.220		
7,950.00	7,296.14	7,491.70	7,229.07	56.50	39.32	138.23	1,571.11	560.35	1,531.26	1,463.31	67.95	22.536		
8,000.00	7,341.56	7,526.00	7,259.55	56.64	39.33	127.00	1,555.43	561.56	1,548.41	1,480.62	67.79	22.842		
8,050.00	7,385.86	7,628.31	7,348.20	56.74	39.33	117.66	1,504.83	567.86	1,563.95	1,496.36	67.59	23.138		
8,100.00	7,428.71	7,668.69	7,382.08	56.79	39.33	110.50	1,483.19	571.55	1,576.82	1,509.35	67.47	23.372		
8,150.00	7,469.77	7,704.00	7,411.16	56.80	39.33	104.81	1,463.42	574.80	1,588.45	1,521.08	67.38	23.576		
8,200.00	7,508.75	7,742.48	7,441.94	56.77	39.32	100.28	1,440.60	578.33	1,598.86	1,531.57	67.30	23.759		
8,250.00	7,545.33	7,776.64	7,468.19	56.70	39.31	96.66	1,418.97	581.41	1,608.08	1,540.84	67.24	23.916		
8,300.00	7,579.25	7,822.40	7,501.53	56.59	39.28	93.80	1,387.93	585.65	1,615.96	1,548.81	67.14	24.068		
8,350.00	7,610.24	7,879.29	7,539.23	56.45	39.24	91.57	1,345.82	591.89	1,621.92	1,554.96	66.96	24.223		
8,400.00	7,638.06	8,400.00	7,581.47	56.28	39.28	89.78	1,282.83	603.18	1,624.97	1,558.05	66.92	24.282		
8,450.00	7,662.52	8,048.33	7,621.26	56.09	39.13	88.35	1,201.57	619.89	1,625.27	1,559.22	66.05	24.607		
8,500.00	7,683.41	8,079.53	7,631.31	55.88	39.11	87.47	1,172.70	626.09	1,623.70	1,557.71	66.00	24.603		
8,550.00	7,700.59	8,103.61	7,638.37	55.64	39.09	86.96	1,150.11	630.55	1,621.06	1,555.02	66.04	24.548		
8,600.00	7,713.91	8,127.72	7,644.86	55.39	39.07	86.79	1,127.27	634.68	1,617.37	1,551.25	66.12	24.463		
8,650.00	7,723.29	8,149.00	7,650.10	55.14	39.07	86.91	1,106.92	638.06	1,612.66	1,546.40	66.26	24.338		
8,700.00	7,728.64	8,172.44	7,655.41	54.87	39.04	87.33	1,084.33	641.43	1,607.01	1,540.56	66.45	24.183		
8,740.83	7,730.00	8,189.49	7,658.99	54.65	39.02	87.87	1,067.82	643.61	1,601.77	1,535.12	66.66	24.030		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,800.00	7,730.00	8,214.26	7,663.78	54.33	39.00	88.04	1,043.67	646.38	1,594.43	1,527.45	66.97	23.807		
8,900.00	7,730.00	8,270.37	7,673.13	53.82	38.94	88.37	988.56	651.18	1,584.70	1,517.30	67.39	23.514		
9,000.00	7,730.00	8,345.43	7,684.47	53.33	38.88	88.78	914.54	656.40	1,576.94	1,509.26	67.68	23.299		
9,100.00	7,730.00	8,417.00	7,693.68	52.87	38.84	89.11	843.69	660.50	1,570.67	1,502.62	68.05	23.081		
9,200.00	7,730.00	8,461.40	7,698.04	52.44	38.80	89.27	799.53	661.91	1,567.16	1,498.51	68.65	22.829		
9,242.26	7,730.00	8,478.64	7,699.30	52.26	38.79	89.32	782.34	661.97	1,566.82	1,497.91	68.92	22.736		
9,300.00	7,730.00	8,506.00	7,700.82	52.03	38.79	89.37	755.02	661.52	1,567.47	1,498.24	69.22	22.643		
9,400.00	7,730.00	8,556.09	7,702.72	51.65	38.75	89.44	705.01	659.41	1,571.14	1,501.37	69.77	22.519		
9,500.00	7,730.00	8,631.25	7,704.50	51.29	38.71	89.51	630.06	654.26	1,577.50	1,507.31	70.18	22.476		
9,600.00	7,730.00	8,753.21	7,707.46	50.95	38.74	89.62	508.38	646.54	1,583.46	1,512.96	70.50	22.461		
9,700.00	7,730.00	8,859.49	7,710.28	50.64	38.87	89.72	402.29	640.83	1,588.48	1,517.37	71.11	22.339		
9,800.00	7,730.00	9,052.68	7,716.10	50.35	39.47	89.93	209.26	638.00	1,588.80	1,516.47	72.33	21.966		
9,900.00	7,730.00	9,137.64	7,716.60	50.09	39.88	89.95	124.30	638.15	1,588.30	1,514.94	73.36	21.652		
9,901.89	7,730.00	9,139.18	7,716.61	50.09	39.89	89.95	122.76	638.14	1,588.30	1,514.92	73.38	21.646		
10,000.00	7,730.00	9,219.96	7,717.36	49.86	40.35	89.98	41.99	637.40	1,588.86	1,514.41	74.45	21.342		
10,100.00	7,730.00	9,398.32	7,719.32	49.65	41.62	90.05	-136.34	638.59	1,588.14	1,511.37	76.77	20.687		
10,200.00	7,730.00	9,499.87	7,719.07	49.48	42.51	90.04	-237.83	642.08	1,584.36	1,505.93	78.43	20.201		
10,300.00	7,730.00	9,618.01	7,717.60	49.35	43.66	89.99	-355.85	647.11	1,579.74	1,499.26	80.48	19.629		
10,400.00	7,730.00	9,721.36	7,715.91	49.27	44.75	89.92	-459.06	652.23	1,574.45	1,492.02	82.43	19.101		
10,500.00	7,730.00	9,799.81	7,714.56	49.26	45.61	89.87	-537.42	655.80	1,569.61	1,485.62	83.99	18.687		
10,600.00	7,730.00	9,884.66	7,714.56	49.32	46.56	89.87	-622.23	658.15	1,566.45	1,480.70	85.75	18.267		
10,700.00	7,730.00	9,960.18	7,714.66	49.51	47.43	89.88	-697.73	660.02	1,563.78	1,476.43	87.36	17.901		
10,745.10	7,730.00	9,982.98	7,714.66	49.63	47.69	89.88	-720.53	660.10	1,563.46	1,475.62	87.84	17.799		
10,800.00	7,730.00	10,020.00	7,714.61	49.83	48.12	89.88	-757.54	659.55	1,563.99	1,475.38	88.62	17.649		
10,900.00	7,730.00	10,100.88	7,714.40	50.31	49.06	89.87	-838.39	657.38	1,566.22	1,475.85	90.37	17.330		
11,000.00	7,730.00	10,196.45	7,713.79	50.96	50.20	89.85	-933.92	654.67	1,568.72	1,476.19	92.53	16.954		
11,100.00	7,730.00	10,309.17	7,712.35	51.75	51.59	89.79	-1,046.59	651.69	1,571.04	1,475.84	95.20	16.503		
11,200.00	7,730.00	10,438.36	7,710.13	52.66	53.25	89.71	-1,175.76	650.04	1,571.99	1,473.58	98.41	15.973		
11,234.04	7,730.00	10,483.41	7,709.67	52.99	53.84	89.70	-1,220.80	650.06	1,571.86	1,472.29	99.57	15.787		
11,300.00	7,730.00	10,524.01	7,709.29	53.67	54.38	89.68	-1,261.40	649.68	1,572.13	1,471.60	100.52	15.640		
11,400.00	7,730.00	10,628.97	7,708.27	54.75	55.79	89.65	-1,366.34	648.14	1,573.27	1,470.05	103.23	15.241		
11,500.00	7,730.00	10,745.39	7,705.57	55.89	57.38	89.55	-1,482.72	647.74	1,573.29	1,466.96	106.32	14.797		
11,549.00	7,730.00	10,787.08	7,704.22	56.46	57.97	89.50	-1,524.40	647.66	1,573.22	1,465.82	107.41	14.648		
11,600.00	7,730.00	10,831.01	7,702.80	57.07	58.58	89.45	-1,568.30	647.45	1,573.31	1,464.77	108.54	14.495		
11,700.00	7,730.00	10,903.75	7,702.09	58.30	59.60	89.42	-1,641.02	646.25	1,574.63	1,464.24	110.39	14.265		
11,800.00	7,730.00	10,987.86	7,703.61	59.55	60.78	89.48	-1,725.08	643.66	1,577.35	1,464.71	112.63	14.004		
11,900.00	7,730.00	11,097.61	7,707.06	60.84	62.34	89.60	-1,834.71	639.99	1,580.34	1,464.55	115.79	13.648		
12,000.00	7,730.00	11,234.63	7,712.36	62.15	64.32	89.80	-1,971.58	636.63	1,582.68	1,462.72	119.96	13.193		
12,100.00	7,730.00	11,355.15	7,715.20	63.49	66.11	89.90	-2,092.07	637.28	1,581.69	1,458.09	123.60	12.797		
12,200.00	7,730.00	11,450.33	7,716.75	64.85	67.55	89.95	-2,187.23	637.81	1,580.80	1,454.41	126.39	12.507		
12,300.00	7,730.00	11,554.14	7,718.06	66.22	69.12	90.00	-2,291.03	638.37	1,579.92	1,450.41	129.51	12.199		
12,400.00	7,730.00	11,652.08	7,718.89	67.62	70.62	90.03	-2,388.97	639.03	1,578.90	1,446.45	132.44	11.921		
12,500.00	7,730.00	11,739.73	7,719.00	69.03	71.97	90.04	-2,476.61	639.17	1,578.40	1,443.39	135.02	11.690		
12,508.39	7,730.00	11,746.88	7,718.99	69.15	72.08	90.04	-2,483.76	639.15	1,578.40	1,443.17	135.23	11.672		
12,600.00	7,730.00	11,837.36	7,718.62	70.45	73.47	90.02	-2,574.24	638.55	1,578.69	1,440.72	137.96	11.443		
12,700.00	7,730.00	11,945.58	7,717.59	71.90	75.15	89.99	-2,682.46	638.69	1,578.20	1,436.88	141.32	11.168		
12,800.00	7,730.00	12,040.09	7,716.09	73.35	76.63	89.93	-2,776.95	638.60	1,577.95	1,433.77	144.18	10.944		
12,900.00	7,730.00	12,156.39	7,713.98	74.81	78.46	89.85	-2,893.23	638.73	1,577.53	1,429.66	147.87	10.668		
13,000.00	7,730.00	12,257.45	7,712.09	76.29	80.06	89.79	-2,994.27	639.60	1,576.33	1,425.31	151.02	10.438		
13,100.00	7,730.00	12,348.33	7,709.86	77.78	81.51	89.70	-3,085.13	640.22	1,575.33	1,421.54	153.79	10.243		
13,134.81	7,730.00	12,373.40	7,709.22	78.30	81.91	89.68	-3,110.18	640.22	1,575.22	1,420.71	154.51	10.195		
13,200.00	7,730.00	12,426.00	7,708.09	79.28	82.75	89.64	-3,162.77	639.70	1,575.61	1,419.56	156.06	10.096		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,300.00	7,730.00	12,505.46	7,706.99	80.79	84.01	89.60	-3,242.21	638.09	1,577.26	1,418.89	158.38	9.959		
13,400.00	7,730.00	12,618.84	7,707.62	82.31	85.81	89.62	-3,355.55	635.63	1,579.10	1,417.00	162.10	9.741		
13,500.00	7,730.00	12,733.07	7,708.93	83.84	87.64	89.67	-3,469.77	634.73	1,579.49	1,413.60	165.89	9.521		
13,600.00	7,730.00	13,600.00	7,709.78	85.37	101.78	89.70	-3,589.01	634.63	1,579.23	1,396.94	182.29	8.663		
13,700.00	7,730.00	12,992.39	7,710.56	86.92	91.88	89.73	-3,729.01	638.59	1,575.65	1,400.96	174.69	9.020		
13,800.00	7,730.00	13,065.12	7,710.56	88.47	93.07	89.73	-3,801.73	640.15	1,573.15	1,396.25	176.90	8.893		
13,900.00	7,730.00	13,146.21	7,710.56	90.03	94.40	89.73	-3,882.81	640.66	1,572.16	1,392.76	179.40	8.764		
14,000.00	7,730.00	13,252.31	7,710.44	91.59	96.15	89.72	-3,988.90	641.45	1,571.05	1,388.14	182.91	8.589		
14,041.44	7,730.00	13,280.23	7,710.72	92.24	96.60	89.73	-4,016.83	641.47	1,570.87	1,387.15	183.71	8.551		
14,100.00	7,730.00	13,320.98	7,711.62	93.16	97.27	89.77	-4,057.56	641.08	1,571.22	1,386.33	184.89	8.498		
14,200.00	7,730.00	13,422.42	7,714.79	94.74	98.94	89.88	-4,158.95	639.59	1,572.34	1,384.08	188.27	8.352		
14,300.00	7,730.00	13,529.32	7,718.11	96.33	100.69	90.00	-4,265.79	638.36	1,573.15	1,381.26	191.88	8.198		
14,400.00	7,730.00	13,650.20	7,721.20	97.92	102.69	90.12	-4,386.62	637.74	1,573.36	1,377.27	196.09	8.024		
14,500.00	7,730.00	13,778.21	7,724.48	99.51	104.83	90.24	-4,514.58	639.43	1,571.70	1,371.12	200.58	7.836		
14,600.00	7,730.00	13,882.34	7,726.59	101.11	106.58	90.31	-4,618.66	641.69	1,569.20	1,365.10	204.10	7.688		
14,700.00	7,730.00	13,968.28	7,727.77	102.72	108.02	90.36	-4,704.57	643.79	1,566.49	1,359.61	206.88	7.572		
14,800.00	7,730.00	14,029.00	7,728.35	104.33	109.04	90.38	-4,765.28	643.92	1,565.92	1,357.36	208.56	7.508		
14,822.99	7,730.00	14,116.31	7,729.20	104.70	110.50	90.41	-4,852.58	644.80	1,565.65	1,353.64	212.01	7.385		
14,900.00	7,730.00	14,177.99	7,729.85	105.94	111.54	90.43	-4,914.23	646.48	1,563.31	1,349.32	213.98	7.306		
15,000.00	7,730.00	14,256.65	7,730.44	107.56	112.87	90.46	-4,992.88	647.62	1,561.52	1,345.06	216.46	7.214		
15,069.43	7,730.00	14,308.62	7,730.73	108.69	113.74	90.47	-5,044.85	647.79	1,561.08	1,343.04	218.04	7.160		
15,100.00	7,730.00	14,327.59	7,730.80	109.18	114.06	90.47	-5,063.82	647.65	1,561.19	1,342.64	218.56	7.143		
15,200.00	7,730.00	14,391.59	7,730.82	110.81	115.12	90.47	-5,127.80	646.17	1,563.15	1,342.90	220.25	7.097		
15,300.00	7,730.00	14,491.75	7,730.69	112.44	116.78	90.46	-5,227.90	642.65	1,566.32	1,342.72	223.60	7.005		
15,400.00	7,730.00	14,625.28	7,730.56	114.08	119.01	90.46	-5,361.39	639.55	1,568.30	1,339.81	228.49	6.864		
15,500.00	7,730.00	14,739.48	7,730.40	115.72	120.93	90.45	-5,475.59	638.79	1,568.61	1,336.12	232.49	6.747		
15,600.00	7,730.00	14,851.70	7,730.11	117.36	122.83	90.44	-5,587.81	638.80	1,568.26	1,331.87	236.39	6.634		
15,700.00	7,730.00	14,978.13	7,729.37	119.00	124.98	90.42	-5,714.22	640.39	1,566.67	1,325.79	240.88	6.504		
15,800.00	7,730.00	15,066.41	7,729.02	120.65	126.48	90.40	-5,802.48	642.27	1,564.24	1,320.46	243.78	6.417		
15,900.00	7,730.00	15,141.32	7,728.51	122.30	127.75	90.39	-5,877.38	642.70	1,563.31	1,317.23	246.09	6.353		
16,000.00	7,730.00	15,267.66	7,729.18	123.96	129.90	90.41	-6,003.71	642.99	1,562.86	1,312.23	250.63	6.236		
16,100.00	7,730.00	15,388.55	7,731.75	125.61	131.98	90.51	-6,124.53	646.21	1,559.76	1,304.84	254.92	6.119		
16,200.00	7,730.00	15,481.30	7,733.64	127.27	133.57	90.58	-6,217.23	648.51	1,556.95	1,298.89	258.06	6.033		
16,300.00	7,730.00	15,585.20	7,735.67	128.94	135.36	90.65	-6,321.08	651.04	1,554.20	1,292.55	261.65	5.940		
16,400.00	7,730.00	15,673.01	7,737.51	130.60	136.87	90.72	-6,408.85	653.13	1,551.52	1,286.94	264.59	5.864		
16,500.00	7,730.00	15,753.79	7,739.17	132.27	138.25	90.78	-6,489.61	654.13	1,549.97	1,282.78	267.19	5.801		
16,562.26	7,730.00	15,801.89	7,740.16	133.31	139.07	90.82	-6,537.69	654.22	1,549.66	1,280.97	268.69	5.767		
16,600.00	7,730.00	15,829.13	7,740.71	133.94	139.54	90.84	-6,564.93	654.05	1,549.79	1,280.29	269.50	5.751		
16,700.00	7,730.00	15,900.00	7,742.06	135.61	140.74	90.89	-6,635.78	652.71	1,551.38	1,279.86	271.53	5.714		
16,800.00	7,730.00	15,973.30	7,743.46	137.28	141.98	90.94	-6,709.00	649.83	1,554.94	1,281.35	273.58	5.684		
16,900.00	7,730.00	16,105.91	7,744.98	138.96	144.22	90.99	-6,841.52	645.25	1,558.05	1,279.39	278.65	5.591		
17,000.00	7,730.00	16,244.81	7,745.67	140.64	146.58	91.02	-6,980.40	643.36	1,559.11	1,275.21	283.90	5.492		
17,003.73	7,730.00	16,250.22	7,745.70	140.70	146.68	91.02	-6,985.81	643.36	1,559.10	1,274.99	284.11	5.488		
17,100.00	7,730.00	16,335.81	7,745.98	142.32	148.14	91.03	-7,071.40	642.97	1,559.20	1,272.27	286.92	5.434		
17,200.00	7,730.00	16,427.72	7,746.26	144.00	149.71	91.04	-7,163.31	642.10	1,559.80	1,269.82	289.98	5.379		
17,300.00	7,730.00	16,531.97	7,746.53	145.69	151.50	91.05	-7,267.55	641.15	1,560.37	1,266.76	293.61	5.314		
17,400.00	7,730.00	16,634.58	7,746.64	147.37	153.25	91.05	-7,370.16	640.29	1,560.88	1,263.72	297.16	5.253		
17,500.00	7,730.00	16,739.51	7,746.96	149.06	155.05	91.06	-7,475.08	639.80	1,561.00	1,260.18	300.83	5.189		
17,600.00	7,730.00	16,833.02	7,747.24	150.75	156.66	91.07	-7,568.60	639.35	1,561.15	1,257.19	303.97	5.136		
17,700.00	7,730.00	16,929.94	7,747.46	152.44	158.32	91.08	-7,665.50	638.45	1,561.74	1,254.48	307.26	5.083		
17,800.00	7,730.00	17,029.68	7,747.34	154.13	160.03	91.08	-7,765.24	637.47	1,562.39	1,251.70	310.69	5.029		
17,900.00	7,730.00	17,130.98	7,746.72	155.83	161.77	91.05	-7,866.54	636.49	1,563.00	1,248.81	314.19	4.975		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,000.00	7,730.00	17,232.27	7,745.44	157.52	163.52	91.01	-7,967.82	635.51	1,563.60	1,245.92	317.68	4.922	
18,100.00	7,730.00	17,330.44	7,743.79	159.22	165.20	90.95	-8,065.97	634.93	1,563.83	1,242.80	321.03	4.871	
18,200.00	7,730.00	17,413.98	7,743.29	160.92	166.64	90.93	-8,149.49	633.44	1,565.22	1,241.54	323.68	4.836	
18,300.00	7,730.00	17,520.77	7,743.37	162.62	168.47	90.93	-8,256.27	631.84	1,566.35	1,238.89	327.46	4.783	
18,400.00	7,730.00	17,613.92	7,743.63	164.32	170.07	90.94	-8,349.40	630.08	1,567.89	1,237.32	330.57	4.743	
18,426.22	7,730.00	17,640.16	7,743.67	164.76	170.52	90.94	-8,375.64	629.56	1,568.33	1,236.85	331.48	4.731 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-50.70	786.51	-960.94	1,241.83					
100.00	100.00	81.59	81.59	0.13	0.14	-50.70	786.71	-961.05	1,242.00	1,241.73	0.27	4,583.155		
200.00	200.00	174.31	174.31	0.49	0.29	-50.68	787.40	-961.45	1,242.81	1,242.03	0.78	1,585.657		
300.00	300.00	267.01	267.00	0.85	0.45	-50.66	788.59	-962.15	1,244.21	1,242.91	1.30	959.679		
400.00	400.00	361.33	361.30	1.21	0.69	-50.63	790.29	-963.14	1,246.16	1,244.26	1.90	657.328		
500.00	500.00	457.65	457.59	1.57	1.03	-50.60	792.24	-964.39	1,248.45	1,245.85	2.60	480.178		
600.00	600.00	553.96	553.86	1.93	1.38	-50.56	794.36	-965.87	1,251.03	1,247.73	3.30	378.731		
700.00	700.00	673.60	673.42	2.29	1.81	-50.43	798.24	-966.07	1,253.27	1,249.19	4.09	306.589		
800.00	800.00	806.79	806.09	2.64	2.29	-49.91	806.93	-958.51	1,253.08	1,248.15	4.93	254.281		
900.00	900.00	974.22	971.37	3.00	2.94	-48.74	821.90	-936.91	1,249.11	1,243.18	5.93	210.748		
1,000.00	1,000.00	1,155.70	1,147.57	3.36	3.76	-46.92	839.16	-897.36	1,238.91	1,231.85	7.07	175.339		
1,100.00	1,100.00	1,253.53	1,241.17	3.72	4.26	-45.72	849.23	-870.74	1,225.90	1,217.99	7.91	154.890		
1,200.00	1,200.00	1,325.66	1,309.93	4.08	4.66	-44.76	858.02	-850.82	1,214.48	1,205.81	8.67	140.100		
1,300.00	1,299.98	1,409.36	1,390.07	4.43	5.13	-91.03	869.10	-829.35	1,205.67	1,196.18	9.49	127.020		
1,400.00	1,399.84	1,537.87	1,512.74	4.79	5.87	-89.79	885.69	-794.90	1,196.53	1,185.97	10.56	113.265		
1,500.00	1,499.45	1,618.04	1,588.75	5.15	6.36	-89.13	896.51	-771.78	1,186.80	1,175.38	11.42	103.952		
1,600.00	1,598.70	1,687.99	1,655.16	5.51	6.79	-88.64	907.00	-752.48	1,179.27	1,167.05	12.22	96.504		
1,700.00	1,697.47	1,769.84	1,733.22	5.89	7.29	-88.17	920.22	-731.71	1,174.11	1,161.02	13.10	89.637		
1,800.00	1,795.62	1,877.69	1,835.80	6.28	7.95	-87.64	938.41	-703.81	1,169.28	1,155.13	14.15	82.607		
1,900.00	1,893.06	1,997.71	1,949.85	6.69	8.70	-87.26	957.39	-671.62	1,162.98	1,147.67	15.31	75.965		
2,000.00	1,989.64	2,110.82	2,057.73	7.13	9.40	-87.23	972.41	-641.17	1,154.49	1,138.06	16.43	70.262		
2,100.00	2,085.27	2,203.01	2,145.97	7.61	9.96	-87.44	984.56	-617.36	1,146.49	1,129.03	17.46	65.672		
2,200.00	2,179.82	2,300.85	2,239.63	8.12	10.55	-87.83	996.99	-591.97	1,137.94	1,119.39	18.54	61.365		
2,300.00	2,273.17	2,403.52	2,338.34	8.67	11.15	-88.49	1,009.97	-566.90	1,130.26	1,110.57	19.68	57.429		
2,400.00	2,365.21	2,496.55	2,427.90	9.27	11.69	-89.30	1,020.66	-544.11	1,121.70	1,100.90	20.80	53.934		
2,500.00	2,455.84	2,580.21	2,508.82	9.92	12.16	-90.25	1,030.39	-525.27	1,114.69	1,092.79	21.89	50.911		
2,580.62	2,527.80	2,640.60	2,567.50	10.49	12.49	-91.06	1,037.40	-512.81	1,110.36	1,087.60	22.76	48.792		
2,600.00	2,544.97	2,654.50	2,581.04	10.63	12.56	-91.25	1,039.04	-510.16	1,109.58	1,086.62	22.96	48.320		
2,700.00	2,633.58	2,758.04	2,682.36	11.37	13.07	-92.72	1,050.24	-492.00	1,106.41	1,082.24	24.17	45.783		
2,800.00	2,722.19	2,863.76	2,786.14	12.13	13.58	-94.35	1,059.10	-473.92	1,102.55	1,077.19	25.36	43.473		
2,900.00	2,810.80	2,971.39	2,891.62	12.91	14.11	-95.99	1,067.69	-454.36	1,098.48	1,071.90	26.58	41.334		
3,000.00	2,899.41	3,066.07	2,984.00	13.71	14.60	-97.34	1,076.51	-435.58	1,094.82	1,067.05	27.77	39.429		
3,100.00	2,988.02	3,166.74	3,081.75	14.52	15.14	-98.68	1,087.58	-414.20	1,091.80	1,062.79	29.01	37.632		
3,200.00	3,076.63	3,275.54	3,187.17	15.34	15.74	-100.10	1,099.34	-390.01	1,088.50	1,058.20	30.30	35.926		
3,300.00	3,165.24	3,371.39	3,279.83	16.16	16.28	-101.32	1,109.80	-367.84	1,085.12	1,053.58	31.53	34.413		
3,400.00	3,253.85	3,452.77	3,358.48	17.00	16.74	-102.34	1,119.43	-349.28	1,083.06	1,050.36	32.70	33.118		
3,444.18	3,292.99	3,487.42	3,392.00	17.37	16.94	-102.78	1,123.82	-341.70	1,082.85	1,049.64	33.21	32.605 CC		
3,500.00	3,342.46	3,535.52	3,438.57	17.84	17.21	-103.38	1,130.12	-331.42	1,083.09	1,049.22	33.87	31.981		
3,600.00	3,431.07	3,628.71	3,528.89	18.69	17.72	-104.55	1,142.47	-312.09	1,084.51	1,049.45	35.06	30.934		
3,700.00	3,519.68	3,739.27	3,636.26	19.55	18.32	-106.00	1,155.88	-289.37	1,086.08	1,049.78	36.30	29.919		
3,800.00	3,608.29	3,856.65	3,750.29	20.40	18.95	-107.61	1,167.85	-264.24	1,086.51	1,048.99	37.52	28.957		
3,803.21	3,611.14	3,860.41	3,753.94	20.43	18.97	-107.66	1,168.19	-263.42	1,086.51	1,048.95	37.56	28.927		
3,900.00	3,696.90	3,946.85	3,837.87	21.26	19.44	-108.85	1,176.74	-244.60	1,087.09	1,048.47	38.62	28.145 ES		
4,000.00	3,785.51	4,032.86	3,921.42	22.13	19.90	-110.02	1,185.58	-226.19	1,088.83	1,049.14	39.69	27.431		
4,100.00	3,874.12	4,122.62	4,008.76	23.00	20.38	-111.25	1,195.04	-207.79	1,092.07	1,051.32	40.75	26.799		
4,200.00	3,962.73	4,228.18	4,111.09	23.87	20.96	-112.58	1,207.90	-185.30	1,095.88	1,054.00	41.88	26.165		
4,300.00	4,051.34	4,342.04	4,220.86	24.74	21.62	-113.92	1,222.66	-158.92	1,098.81	1,055.75	43.06	25.519		
4,400.00	4,139.95	4,448.00	4,323.18	25.62	22.23	-115.24	1,234.64	-134.12	1,101.40	1,057.24	44.15	24.944		
4,500.00	4,228.56	4,589.04	4,458.23	26.49	23.09	-116.85	1,251.81	-97.32	1,102.42	1,057.07	45.36	24.306		
4,600.00	4,317.17	4,707.30	4,569.40	27.37	23.90	-117.94	1,269.14	-60.94	1,100.06	1,053.49	46.57	23.624		
4,700.00	4,405.78	4,784.22	4,641.52	28.25	24.43	-118.61	1,281.24	-37.10	1,098.26	1,050.59	47.67	23.037		
4,710.38	4,414.98	4,790.21	4,647.17	28.34	24.47	-118.67	1,282.18	-35.34	1,098.24	1,050.46	47.78	22.986		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,800.00	4,494.39	4,854.00	4,707.76	29.13	24.89	-119.27	1,292.15	-18.07	1,099.94	1,051.25	48.70	22.588		
4,900.00	4,583.00	4,917.41	4,768.47	30.02	25.27	-119.91	1,302.01	-2.67	1,104.70	1,055.08	49.62	22.264		
5,000.00	4,671.61	5,026.47	4,873.01	30.90	25.93	-121.00	1,319.09	23.31	1,110.65	1,059.94	50.71	21.904		
5,100.00	4,760.22	5,121.76	4,963.93	31.79	26.52	-121.87	1,334.92	47.03	1,116.09	1,064.34	51.75	21.568		
5,200.00	4,848.83	5,212.99	5,051.35	32.67	27.07	-122.78	1,348.91	69.00	1,122.30	1,069.58	52.72	21.288		
5,300.00	4,937.44	5,292.49	5,128.10	33.56	27.53	-123.65	1,359.42	86.84	1,129.97	1,076.41	53.56	21.096		
5,400.00	5,026.05	5,379.20	5,212.25	34.45	28.00	-124.67	1,369.82	104.97	1,139.29	1,084.92	54.37	20.953		
5,500.00	5,114.66	5,488.39	5,318.55	35.34	28.58	-126.02	1,381.07	127.27	1,149.28	1,094.07	55.21	20.817		
5,600.00	5,203.27	5,618.17	5,443.95	36.23	29.32	-127.55	1,394.44	157.84	1,156.39	1,100.29	56.10	20.612		
5,700.00	5,291.88	5,701.52	5,524.15	37.12	29.81	-128.42	1,405.26	177.80	1,164.29	1,107.38	56.90	20.461		
5,800.00	5,380.50	5,774.56	5,594.56	38.01	30.22	-129.14	1,415.44	194.37	1,173.99	1,116.34	57.65	20.366		
5,900.00	5,469.11	5,838.57	5,656.77	38.90	30.57	-129.81	1,423.63	207.04	1,186.66	1,128.39	58.27	20.364		
6,000.00	5,557.72	5,920.00	5,736.34	39.79	30.98	-130.71	1,433.02	221.48	1,201.63	1,142.71	58.92	20.395		
6,100.00	5,646.33	6,057.79	5,870.56	40.68	31.70	-132.21	1,448.43	248.56	1,214.76	1,154.93	59.84	20.301		
6,200.00	5,734.94	6,160.37	5,970.32	41.58	32.25	-133.29	1,459.97	269.40	1,228.04	1,167.47	60.57	20.275		
6,300.00	5,823.55	6,281.93	6,088.49	42.47	32.90	-134.67	1,470.56	295.88	1,240.15	1,178.86	61.29	20.235		
6,400.00	5,912.16	6,433.81	6,233.86	43.36	33.84	-136.03	1,490.71	334.73	1,248.72	1,186.49	62.23	20.068		
6,500.00	6,000.77	6,511.48	6,307.21	44.26	34.34	-136.50	1,505.53	355.53	1,256.70	1,193.63	63.07	19.926		
6,600.00	6,089.38	6,585.95	6,377.98	45.15	34.81	-136.96	1,519.80	373.76	1,267.03	1,203.17	63.87	19.839		
6,700.00	6,177.99	6,685.35	6,473.17	46.05	35.42	-137.66	1,536.48	397.03	1,278.72	1,214.01	64.71	19.762		
6,800.00	6,266.60	6,836.22	6,617.45	46.94	36.35	-138.90	1,557.25	435.88	1,288.46	1,222.85	65.60	19.640		
6,900.00	6,355.21	6,955.01	6,729.71	47.84	37.15	-139.83	1,574.32	470.75	1,294.48	1,228.08	66.40	19.494		
7,000.00	6,443.82	7,028.90	6,799.54	48.74	37.63	-140.36	1,585.95	491.94	1,301.55	1,234.41	67.14	19.386		
7,100.00	6,532.43	7,099.70	6,867.19	49.63	38.08	-140.95	1,595.05	510.73	1,311.11	1,243.34	67.77	19.345		
7,200.00	6,621.04	7,190.22	6,954.33	50.53	38.61	-141.90	1,602.02	534.15	1,322.09	1,253.78	68.31	19.355		
7,300.00	6,709.65	7,278.06	7,039.15	51.42	39.09	-142.97	1,604.72	556.81	1,333.98	1,265.27	68.71	19.415		
7,400.00	6,798.26	7,358.36	7,116.87	52.32	39.51	-144.03	1,604.87	576.98	1,347.39	1,278.36	69.03	19.519		
7,500.00	6,886.87	7,447.14	7,202.49	53.22	39.92	-145.44	1,598.47	599.39	1,362.17	1,292.99	69.18	19.691		
7,600.00	6,975.48	7,542.89	7,293.31	54.12	40.31	-147.32	1,581.64	624.44	1,378.28	1,309.20	69.08	19.952		
7,656.30	7,025.36	7,649.81	7,391.19	54.62	40.73	-149.77	1,552.80	656.22	1,386.85	1,318.21	68.64	20.203		
7,700.00	7,064.54	7,700.00	7,428.53	55.00	40.93	-158.52	1,538.85	670.54	1,392.33	1,323.79	68.54	20.314		
7,750.00	7,110.29	7,753.47	7,481.96	55.40	41.14	-170.49	1,517.45	691.59	1,398.12	1,329.79	68.33	20.460		
7,800.00	7,156.67	7,791.25	7,514.30	55.75	41.29	-176.35	1,502.96	704.67	1,403.56	1,335.24	68.32	20.543		
7,850.00	7,203.34	7,821.39	7,539.76	56.05	41.39	-162.38	1,490.56	714.99	1,408.61	1,340.25	68.36	20.605		
7,900.00	7,249.95	7,851.05	7,564.36	56.30	41.49	-148.76	1,477.34	724.96	1,413.32	1,344.92	68.40	20.662		
7,950.00	7,296.14	7,883.00	7,590.33	56.50	41.61	-136.65	1,461.97	735.46	1,417.61	1,349.18	68.42	20.718		
8,000.00	7,341.56	7,903.50	7,606.69	56.64	41.65	-126.73	1,451.47	741.98	1,421.49	1,352.99	68.50	20.753		
8,050.00	7,385.86	7,925.73	7,624.12	56.74	41.71	-118.79	1,439.46	748.75	1,425.05	1,356.50	68.55	20.788		
8,100.00	7,428.71	7,948.05	7,641.30	56.79	41.76	-112.54	1,426.77	755.23	1,428.24	1,359.64	68.60	20.818		
8,150.00	7,469.77	7,972.00	7,659.34	56.80	41.82	-107.63	1,412.46	761.81	1,431.02	1,362.37	68.65	20.845		
8,200.00	7,508.75	7,972.00	7,659.34	56.77	41.82	-103.82	1,412.46	761.81	1,433.68	1,364.87	68.82	20.834		
8,250.00	7,545.33	8,012.28	7,688.70	56.70	41.87	-100.77	1,386.81	771.90	1,435.29	1,366.49	68.81	20.860		
8,300.00	7,579.25	8,033.14	7,703.39	56.59	41.89	-98.41	1,372.76	776.61	1,436.77	1,367.87	68.91	20.851		
8,350.00	7,610.24	8,061.00	7,722.40	56.45	41.93	-96.61	1,353.22	782.33	1,437.85	1,368.86	68.99	20.842		
8,400.00	7,638.06	8,061.00	7,722.40	56.28	41.93	-95.10	1,353.22	782.33	1,438.55	1,369.28	69.27	20.767		
8,450.00	7,662.52	8,061.00	7,722.40	56.09	41.93	-93.86	1,353.22	782.33	1,439.53	1,369.91	69.61	20.679		
8,472.01	7,672.16	8,093.40	7,743.91	55.99	41.93	-93.76	1,329.63	787.85	1,438.89	1,369.32	69.56	20.685		
8,500.00	7,683.41	8,101.86	7,749.45	55.88	41.93	-93.37	1,323.36	789.04	1,438.93	1,369.20	69.73	20.636		
8,550.00	7,700.59	8,116.71	7,759.11	55.64	41.93	-92.89	1,312.23	790.88	1,438.86	1,368.79	70.07	20.535		
8,569.56	7,706.27	8,122.42	7,762.79	55.54	41.93	-92.77	1,307.91	791.50	1,438.79	1,368.57	70.22	20.490		
8,600.00	7,713.91	8,150.00	7,780.38	55.39	41.93	-92.97	1,286.80	793.83	1,439.02	1,368.71	70.31	20.467		
8,650.00	7,723.29	8,150.00	7,780.38	55.14	41.93	-92.69	1,286.80	793.83	1,438.31	1,367.44	70.87	20.294		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,700.00	7,728.64	8,165.29	7,789.91	54.87	41.91	92.88	1,274.87	794.74	1,437.82	1,366.46	71.36	20.150		
8,740.83	7,730.00	8,184.31	7,801.43	54.65	41.89	93.33	1,259.77	795.70	1,437.23	1,365.52	71.71	20.043		
8,778.84	7,730.00	8,202.22	7,811.92	54.44	41.87	93.75	1,245.27	796.42	1,436.92	1,364.88	72.04	19.947		
8,800.00	7,730.00	8,212.47	7,817.77	54.33	41.86	93.98	1,236.87	796.75	1,437.01	1,364.80	72.21	19.901		
8,900.00	7,730.00	8,282.31	7,854.40	53.82	41.77	95.44	1,177.45	797.85	1,439.65	1,366.93	72.72	19.797		
9,000.00	7,730.00	8,387.03	7,896.15	53.33	41.62	97.09	1,081.60	798.25	1,443.65	1,371.01	72.64	19.874		
9,100.00	7,730.00	8,481.18	7,918.02	52.87	41.48	97.95	990.07	797.05	1,447.74	1,375.14	72.60	19.941		
9,200.00	7,730.00	8,609.14	7,936.32	52.44	41.32	98.65	863.51	794.40	1,451.62	1,379.34	72.27	20.085		
9,300.00	7,730.00	8,720.83	7,942.71	52.03	41.24	98.89	752.05	791.84	1,454.48	1,382.19	72.29	20.119		
9,400.00	7,730.00	8,851.83	7,943.96	51.65	41.26	98.94	621.08	791.09	1,454.71	1,382.26	72.45	20.080		
9,500.00	7,730.00	8,976.91	7,938.90	51.29	41.39	98.74	496.11	791.46	1,453.41	1,380.49	72.92	19.932		
9,600.00	7,730.00	9,060.22	7,935.36	50.95	41.54	98.61	412.88	791.98	1,451.86	1,378.28	73.58	19.733		
9,631.38	7,730.00	9,080.36	7,934.76	50.85	41.58	98.59	392.75	791.90	1,451.74	1,377.94	73.80	19.672		
9,700.00	7,730.00	9,130.00	7,933.76	50.64	41.70	98.54	343.13	791.10	1,452.33	1,378.06	74.27	19.555		
9,800.00	7,730.00	9,235.59	7,932.36	50.35	42.00	98.48	237.56	789.24	1,453.55	1,378.34	75.21	19.327		
9,900.00	7,730.00	9,323.89	7,932.28	50.09	42.33	98.47	149.28	787.54	1,455.07	1,378.89	76.18	19.100		
10,000.00	7,730.00	9,499.96	7,933.14	49.86	43.21	98.51	-26.76	788.33	1,454.50	1,376.24	78.26	18.586		
10,100.00	7,730.00	9,577.48	7,932.58	49.65	43.71	98.50	-104.25	790.08	1,451.81	1,372.39	79.42	18.281		
10,200.00	7,730.00	9,682.68	7,933.74	49.48	44.47	98.56	-209.40	792.78	1,449.07	1,367.98	81.09	17.870		
10,273.43	7,730.00	9,722.60	7,934.76	49.38	44.77	98.61	-249.31	793.26	1,448.22	1,366.46	81.76	17.713		
10,300.00	7,730.00	9,737.06	7,935.10	49.35	44.88	98.62	-263.76	793.20	1,448.33	1,366.34	81.99	17.665		
10,400.00	7,730.00	9,802.48	7,936.38	49.27	45.39	98.66	-329.14	791.71	1,450.48	1,367.40	83.08	17.460		
10,500.00	7,730.00	9,897.20	7,937.27	49.26	46.15	98.68	-423.78	787.78	1,454.37	1,369.63	84.73	17.165		
10,600.00	7,730.00	9,983.90	7,937.49	49.32	46.90	98.67	-510.41	784.36	1,458.02	1,371.72	86.29	16.896		
10,700.00	7,730.00	10,057.81	7,939.93	49.51	47.57	98.74	-584.18	780.42	1,463.44	1,375.79	87.65	16.697		
10,800.00	7,730.00	10,159.60	7,944.79	49.83	48.53	98.89	-685.63	773.86	1,470.22	1,380.52	89.70	16.390		
10,900.00	7,730.00	10,282.60	7,947.78	50.31	49.78	98.97	-808.43	767.54	1,475.29	1,382.91	92.38	15.970		
11,000.00	7,730.00	10,407.43	7,949.59	50.96	51.16	99.02	-933.18	763.51	1,478.20	1,382.95	95.25	15.519		
11,100.00	7,730.00	10,490.10	7,953.21	51.75	52.10	99.14	-1,015.71	760.47	1,482.11	1,385.03	97.08	15.267		
11,200.00	7,730.00	10,671.35	7,962.25	52.66	54.32	99.48	-1,196.70	758.71	1,483.62	1,381.71	101.91	14.558		
11,300.00	7,730.00	10,841.89	7,966.31	53.67	56.60	99.70	-1,366.85	768.57	1,476.67	1,370.07	106.60	13.852		
11,400.00	7,730.00	10,906.15	7,966.41	54.75	57.48	99.72	-1,431.06	771.21	1,472.09	1,363.98	108.11	13.616		
11,500.00	7,730.00	11,026.81	7,966.32	55.89	59.15	99.76	-1,551.60	776.45	1,467.43	1,356.01	111.42	13.170		
11,600.00	7,730.00	11,120.50	7,966.18	57.07	60.47	99.78	-1,645.18	780.98	1,462.31	1,348.40	113.92	12.837		
11,700.00	7,730.00	11,190.78	7,966.14	58.30	61.46	99.80	-1,715.41	783.60	1,458.38	1,342.73	115.65	12.610		
11,789.84	7,730.00	11,241.00	7,966.09	59.42	62.17	99.80	-1,765.62	784.24	1,457.04	1,340.31	116.72	12.483		
11,800.00	7,730.00	11,241.00	7,966.09	59.55	62.17	99.80	-1,765.62	784.24	1,457.07	1,340.44	116.64	12.492		
11,900.00	7,730.00	11,304.05	7,966.00	60.84	63.04	99.79	-1,828.66	783.13	1,458.66	1,340.64	118.02	12.360		
12,000.00	7,730.00	11,386.82	7,965.87	62.15	64.18	99.76	-1,911.33	779.13	1,462.97	1,342.86	120.11	12.180		
12,100.00	7,730.00	11,605.36	7,965.44	63.49	67.33	99.75	-2,129.78	778.23	1,462.62	1,335.27	127.35	11.485		
12,200.00	7,730.00	11,680.51	7,965.24	64.85	68.45	99.75	-2,204.91	780.10	1,459.78	1,330.45	129.33	11.287		
12,300.00	7,730.00	11,804.75	7,964.85	66.22	70.32	99.76	-2,329.11	783.08	1,457.05	1,323.89	133.16	10.942		
12,400.00	7,730.00	11,921.61	7,962.95	67.62	72.11	99.72	-2,445.87	787.49	1,452.70	1,315.95	136.75	10.623		
12,500.00	7,730.00	12,001.32	7,961.45	69.03	73.33	99.68	-2,525.50	790.61	1,448.27	1,309.30	138.97	10.421		
12,600.00	7,730.00	12,065.37	7,960.24	70.45	74.31	99.64	-2,589.53	791.67	1,446.02	1,305.47	140.55	10.288		
12,633.47	7,730.00	12,085.20	7,959.86	70.94	74.61	99.63	-2,609.36	791.64	1,445.86	1,304.86	141.00	10.254		
12,700.00	7,730.00	12,132.00	7,958.98	71.90	75.32	99.59	-2,656.14	790.80	1,446.52	1,304.35	142.17	10.175		
12,800.00	7,730.00	12,262.28	7,956.48	73.35	77.31	99.49	-2,786.38	789.62	1,446.73	1,300.29	146.44	9.879		
12,900.00	7,730.00	12,358.62	7,954.71	74.81	78.80	99.42	-2,882.70	789.59	1,446.12	1,296.79	149.33	9.684		
13,000.00	7,730.00	12,497.90	7,953.06	76.29	80.98	99.37	-3,021.96	790.78	1,444.93	1,290.92	154.01	9.382		
13,100.00	7,730.00	12,604.91	7,952.78	77.78	82.68	99.38	-3,128.92	794.18	1,441.40	1,284.00	157.40	9.157		
13,200.00	7,730.00	12,700.63	7,952.45	79.28	84.21	99.39	-3,224.59	797.12	1,437.98	1,277.62	160.36	8.967		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
13,300.00	7,730.00	12,799.58	7,952.14	80.79	85.80	99.40	-3,323.49	800.20	1,434.52	1,271.06	163.46	8.776	
13,400.00	7,730.00	12,875.01	7,952.07	82.31	87.01	99.41	-3,398.90	802.10	1,431.78	1,266.21	165.57	8.648	
13,457.17	7,730.00	12,909.21	7,952.04	83.18	87.56	99.41	-3,433.10	802.26	1,431.32	1,264.95	166.37	8.603	
13,500.00	7,730.00	12,934.00	7,952.01	83.84	87.95	99.41	-3,457.89	802.03	1,431.57	1,264.67	166.90	8.577	
13,600.00	7,730.00	12,999.06	7,951.92	85.37	88.97	99.39	-3,522.92	800.19	1,434.02	1,265.61	168.41	8.515	
13,700.00	7,730.00	13,092.47	7,951.72	86.92	90.43	99.36	-3,616.22	795.74	1,438.33	1,267.09	171.23	8.400	
13,800.00	7,730.00	13,202.87	7,951.50	88.47	92.17	99.32	-3,726.52	791.09	1,442.11	1,267.22	174.89	8.246	
13,900.00	7,730.00	13,299.39	7,951.38	90.03	93.70	99.30	-3,822.96	787.22	1,445.70	1,267.80	177.90	8.127	
14,000.00	7,730.00	13,406.22	7,951.05	91.59	95.40	99.26	-3,929.72	783.22	1,449.01	1,267.59	181.42	7.987	
14,100.00	7,730.00	13,506.38	7,950.81	93.16	97.00	99.23	-4,029.81	779.49	1,452.31	1,267.69	184.62	7.866	
14,200.00	7,730.00	13,613.98	7,950.69	94.74	98.72	99.20	-4,137.35	775.98	1,455.17	1,266.97	188.20	7.732	
14,300.00	7,730.00	13,736.70	7,951.37	96.33	100.71	99.22	-4,260.03	773.16	1,457.23	1,264.72	192.51	7.570	
14,400.00	7,730.00	13,906.57	7,954.10	97.92	103.53	99.35	-4,429.80	777.52	1,453.71	1,254.85	198.86	7.310	
14,500.00	7,730.00	14,020.80	7,957.00	99.51	105.45	99.50	-4,543.88	782.73	1,449.25	1,246.53	202.73	7.149	
14,600.00	7,730.00	14,096.57	7,958.72	101.11	106.72	99.59	-4,619.56	785.71	1,445.41	1,240.43	204.98	7.051	
14,700.00	7,730.00	14,179.98	7,960.10	102.72	108.11	99.66	-4,702.94	787.73	1,442.96	1,235.43	207.53	6.953	
14,800.00	7,730.00	14,263.63	7,961.48	104.33	109.51	99.72	-4,786.57	788.79	1,441.66	1,231.59	210.06	6.863	
14,859.82	7,730.00	14,312.78	7,962.30	105.29	110.32	99.76	-4,835.71	788.95	1,441.43	1,229.91	211.52	6.815	
14,900.00	7,730.00	14,345.71	7,962.85	105.94	110.87	99.78	-4,868.64	788.85	1,441.53	1,229.04	212.49	6.784	
15,000.00	7,730.00	14,423.71	7,964.16	107.56	112.16	99.83	-4,946.62	787.83	1,442.78	1,228.08	214.69	6.720	
15,100.00	7,730.00	14,556.08	7,966.24	109.18	114.35	99.90	-5,078.95	785.91	1,444.29	1,224.74	219.54	6.579	
15,200.00	7,730.00	14,659.12	7,967.76	110.81	116.08	99.96	-5,181.98	786.11	1,444.02	1,221.03	222.98	6.476	
15,300.00	7,730.00	14,753.77	7,969.12	112.44	117.66	100.02	-5,276.62	786.28	1,443.76	1,217.73	226.02	6.388	
15,310.86	7,730.00	14,763.88	7,969.26	112.62	117.83	100.02	-5,286.73	786.27	1,443.75	1,217.41	226.35	6.378	
15,400.00	7,730.00	14,853.06	7,970.54	114.08	119.32	100.07	-5,375.90	786.09	1,443.85	1,214.56	229.29	6.297	
15,500.00	7,730.00	14,954.88	7,972.09	115.72	121.03	100.14	-5,477.71	786.17	1,443.71	1,211.03	232.68	6.205	
15,600.00	7,730.00	15,073.78	7,973.78	117.36	123.03	100.21	-5,596.60	786.78	1,443.15	1,206.27	236.88	6.092	
15,700.00	7,730.00	15,157.50	7,973.64	119.00	124.45	100.21	-5,680.31	787.22	1,442.28	1,202.84	239.44	6.024	
15,720.74	7,730.00	15,173.83	7,973.33	119.34	124.72	100.20	-5,696.63	787.13	1,442.25	1,202.33	239.92	6.011	
15,800.00	7,730.00	15,234.41	7,972.28	120.65	125.73	100.15	-5,757.20	786.34	1,442.76	1,201.12	241.64	5.971	
15,900.00	7,730.00	15,328.47	7,970.38	122.30	127.31	100.06	-5,851.22	784.10	1,444.40	1,199.72	244.68	5.903	
16,000.00	7,730.00	15,421.93	7,968.34	123.96	128.87	99.97	-5,944.61	781.61	1,446.31	1,198.62	247.70	5.839	
16,100.00	7,730.00	15,507.45	7,967.81	125.61	130.30	99.93	-6,030.10	778.94	1,448.95	1,198.68	250.27	5.789	
16,200.00	7,730.00	15,590.00	7,968.03	127.27	131.67	99.92	-6,112.57	775.56	1,452.70	1,200.04	252.66	5.750	
16,300.00	7,730.00	15,679.71	7,968.57	128.94	133.16	99.91	-6,202.17	771.01	1,457.46	1,202.04	255.42	5.706	
16,400.00	7,730.00	16,096.18	7,973.09	130.60	140.30	100.21	-6,616.71	787.73	1,458.54	1,187.48	271.07	5.381	
16,500.00	7,730.00	16,168.03	7,975.54	132.27	141.57	100.40	-6,687.55	799.48	1,442.77	1,169.00	273.77	5.270	
16,600.00	7,730.00	16,232.00	7,979.80	133.94	142.71	100.63	-6,750.72	808.60	1,429.49	1,153.35	276.14	5.177	
16,700.00	7,730.00	16,286.65	7,984.71	135.61	143.67	100.88	-6,804.76	815.10	1,418.97	1,140.96	278.02	5.104	
16,800.00	7,730.00	16,321.00	7,988.08	137.28	144.27	101.04	-6,838.77	818.50	1,411.70	1,132.89	278.81	5.063	
16,900.00	7,730.00	16,386.95	7,994.01	138.96	145.42	101.31	-6,904.32	822.59	1,407.51	1,126.97	280.54	5.017	
16,957.18	7,730.00	16,415.72	7,996.11	139.92	145.91	101.40	-6,933.00	823.17	1,406.97	1,125.94	281.03	5.006	
17,000.00	7,730.00	16,446.81	7,997.89	140.64	146.44	101.47	-6,964.04	823.29	1,407.16	1,125.33	281.83	4.993	
17,100.00	7,730.00	16,532.07	8,000.05	142.32	147.89	101.55	-7,049.26	821.92	1,408.85	1,124.49	284.36	4.954	
17,200.00	7,730.00	16,645.78	8,001.76	144.00	149.82	101.61	-7,162.94	820.29	1,410.21	1,121.77	288.43	4.889	
17,300.00	7,730.00	16,741.33	8,003.11	145.69	151.45	101.66	-7,258.47	819.35	1,411.14	1,119.60	291.54	4.840	
17,400.00	7,730.00	16,850.43	8,004.63	147.37	153.31	101.71	-7,367.55	818.06	1,412.26	1,116.90	295.36	4.781	
17,500.00	7,730.00	16,953.61	8,006.01	149.06	155.07	101.76	-7,470.73	817.51	1,412.72	1,113.85	298.87	4.727	
17,600.00	7,730.00	17,051.53	8,007.33	150.75	156.75	101.81	-7,568.64	816.88	1,413.29	1,111.18	302.11	4.678	
17,700.00	7,730.00	17,154.19	8,008.76	152.44	158.51	101.87	-7,671.28	816.69	1,413.42	1,107.82	305.59	4.625	
17,800.00	7,730.00	17,231.65	8,009.82	154.13	159.83	101.91	-7,748.73	815.84	1,414.46	1,106.73	307.74	4.596	
17,900.00	7,730.00	17,301.00	8,010.05	155.83	161.01	101.90	-7,818.04	813.51	1,417.48	1,108.13	309.35	4.582	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,000.00	7,730.00	17,371.13	8,009.52	157.52	162.18	101.85	-7,888.06	809.47	1,422.62	1,111.72	310.90	4.576 SF	
18,100.00	7,730.00	17,434.32	8,008.63	159.22	163.23	101.77	-7,951.02	804.33	1,430.01	1,118.15	311.86	4.585	
18,200.00	7,730.00	17,479.00	8,007.94	160.92	163.97	101.71	-7,995.45	799.59	1,440.25	1,128.99	311.26	4.627	
18,300.00	7,730.00	17,538.27	8,007.80	162.62	164.93	101.64	-8,054.15	791.49	1,453.62	1,142.15	311.47	4.667	
18,400.00	7,730.00	17,568.00	8,008.31	164.32	165.41	101.62	-8,083.46	786.52	1,470.84	1,161.95	308.89	4.762	
18,426.22	7,730.00	17,594.22	8,008.98	164.76	165.81	101.61	-8,109.20	781.57	1,475.73	1,165.94	309.79	4.764	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-50.42	786.15	-950.86	1,233.81					
100.00	100.00	88.24	88.24	0.13	0.15	-50.41	786.30	-950.77	1,233.79	1,233.51	0.28	4,386.144		
200.00	200.00	187.38	187.38	0.49	0.31	-50.38	786.81	-950.47	1,233.89	1,233.08	0.80	1,533.226		
300.00	300.00	286.52	286.51	0.85	0.48	-50.34	787.69	-949.96	1,234.05	1,232.72	1.33	929.099		
400.00	400.00	384.70	384.68	1.21	0.77	-50.27	788.89	-949.30	1,234.32	1,232.34	1.98	623.893		
500.00	500.00	482.43	482.41	1.57	1.12	-50.20	790.30	-948.69	1,234.76	1,232.07	2.69	459.466		
600.00	600.00	580.16	580.12	1.93	1.47	-50.13	791.91	-948.14	1,235.38	1,231.99	3.40	363.726		
700.00	700.00	758.93	758.60	2.29	2.11	-49.77	794.97	-939.86	1,232.95	1,228.56	4.40	280.458		
800.00	800.00	923.75	921.62	2.64	2.76	-48.86	800.97	-916.75	1,224.56	1,219.19	5.37	227.996		
900.00	900.00	1,015.91	1,011.78	3.00	3.16	-48.07	807.14	-898.68	1,214.16	1,208.04	6.11	198.618		
1,000.00	1,000.00	1,124.16	1,116.45	3.36	3.68	-46.87	818.03	-873.36	1,203.40	1,196.43	6.97	172.644		
1,100.00	1,100.00	1,201.56	1,190.47	3.72	4.09	-45.84	828.65	-853.44	1,193.87	1,186.14	7.73	154.436		
1,200.00	1,200.00	1,284.88	1,269.66	4.08	4.56	-44.63	842.32	-831.42	1,186.29	1,177.73	8.56	138.666		
1,300.00	1,299.98	1,388.08	1,366.68	4.43	5.18	-90.29	861.23	-801.79	1,179.25	1,169.72	9.54	123.666		
1,400.00	1,399.84	1,464.24	1,438.05	4.79	5.67	-89.30	876.25	-779.85	1,173.93	1,163.54	10.38	113.072		
1,500.00	1,499.45	1,612.26	1,576.29	5.15	6.65	-87.46	905.52	-735.83	1,169.17	1,157.45	11.72	99.784		
1,600.00	1,598.70	1,697.44	1,655.32	5.51	7.24	-86.55	920.75	-707.95	1,161.17	1,148.49	12.68	91.542		
1,700.00	1,697.47	1,782.47	1,734.40	5.89	7.84	-85.77	937.20	-681.36	1,155.31	1,141.64	13.67	84.532		
1,800.00	1,795.62	1,912.16	1,855.15	6.28	8.75	-84.76	961.02	-640.53	1,148.74	1,133.77	14.97	76.736		
1,900.00	1,893.06	2,010.33	1,946.98	6.69	9.44	-84.28	977.14	-609.80	1,140.62	1,124.55	16.07	70.973		
2,000.00	1,989.64	2,131.27	2,060.76	7.13	10.27	-83.98	994.84	-572.81	1,131.28	1,113.96	17.32	65.317		
2,100.00	2,085.27	2,223.94	2,148.35	7.61	10.88	-84.06	1,006.65	-544.96	1,120.43	1,102.03	18.41	60.873		
2,200.00	2,179.82	2,323.12	2,242.63	8.12	11.52	-84.37	1,019.38	-516.92	1,110.34	1,090.80	19.54	56.814		
2,300.00	2,273.17	2,430.44	2,345.15	8.67	12.20	-85.01	1,031.38	-487.57	1,099.15	1,078.41	20.74	52.998		
2,400.00	2,365.21	2,512.27	2,423.42	9.27	12.70	-85.72	1,040.64	-465.58	1,088.15	1,066.31	21.84	49.831		
2,500.00	2,455.84	2,593.81	2,501.44	9.92	13.21	-86.54	1,051.07	-444.26	1,078.62	1,055.65	22.98	46.946		
2,580.62	2,527.80	2,659.50	2,564.31	10.49	13.61	-87.29	1,060.24	-427.59	1,072.07	1,048.15	23.93	44.807		
2,600.00	2,544.97	2,675.26	2,579.40	10.63	13.71	-87.46	1,062.54	-423.66	1,070.66	1,046.50	24.16	44.319		
2,700.00	2,633.58	2,771.26	2,671.30	11.37	14.30	-88.44	1,076.80	-399.88	1,063.88	1,038.42	25.45	41.798		
2,800.00	2,722.19	2,897.04	2,791.43	12.13	15.09	-89.72	1,094.52	-367.06	1,055.97	1,029.03	26.94	39.197		
2,900.00	2,810.80	3,007.26	2,896.23	12.91	15.79	-90.80	1,109.23	-336.30	1,046.68	1,018.32	28.36	36.910		
3,000.00	2,899.41	3,117.30	3,000.83	13.71	16.51	-91.92	1,122.84	-304.96	1,036.62	1,006.84	29.78	34.808		
3,100.00	2,988.02	3,216.34	3,094.19	14.52	17.19	-92.81	1,136.11	-274.68	1,026.16	994.97	31.19	32.900		
3,200.00	3,076.63	3,281.65	3,155.52	15.34	17.65	-93.35	1,146.34	-254.69	1,017.51	985.06	32.45	31.356		
3,300.00	3,165.24	3,390.73	3,257.96	16.16	18.41	-94.23	1,165.30	-222.38	1,011.01	977.06	33.95	29.777		
3,400.00	3,253.85	3,492.57	3,353.53	17.00	19.12	-95.08	1,181.76	-191.30	1,003.17	967.76	35.41	28.329		
3,500.00	3,342.46	3,578.18	3,433.51	17.84	19.74	-95.74	1,196.82	-164.77	996.12	959.32	36.80	27.066		
3,600.00	3,431.07	3,656.45	3,507.01	18.69	20.28	-96.38	1,210.98	-141.87	990.90	952.77	38.13	25.989		
3,700.00	3,519.68	3,764.49	3,609.10	19.55	21.01	-97.38	1,229.73	-111.93	986.59	947.00	39.59	24.922		
3,800.00	3,608.29	3,859.26	3,698.76	20.40	21.64	-98.29	1,245.49	-85.56	982.01	941.05	40.96	23.978		
3,900.00	3,696.90	3,938.38	3,773.94	21.26	22.15	-99.10	1,258.77	-64.78	979.01	936.80	42.21	23.196		
4,000.00	3,785.51	4,028.66	3,860.15	22.13	22.71	-100.09	1,274.04	-42.78	977.87	934.39	43.48	22.490		
4,100.00	3,874.12	4,151.97	3,978.51	23.00	23.45	-101.59	1,292.31	-13.40	976.41	931.54	44.87	21.761		
4,200.00	3,962.73	4,270.90	4,092.56	23.87	24.18	-103.11	1,307.28	16.77	972.84	926.67	46.18	21.069		
4,300.00	4,051.34	4,363.98	4,181.58	24.74	24.75	-104.29	1,318.29	41.62	968.27	920.90	47.36	20.443		
4,400.00	4,139.95	4,456.36	4,270.69	25.62	25.29	-105.61	1,328.19	63.87	965.72	917.24	48.48	19.919		
4,500.00	4,228.56	4,555.01	4,365.48	26.49	25.88	-106.95	1,339.42	88.75	963.17	913.55	49.62	19.412		
4,600.00	4,317.17	4,637.62	4,444.56	27.37	26.39	-107.98	1,350.62	109.87	961.94	911.24	50.70	18.973		
4,603.65	4,320.41	4,640.48	4,447.31	27.40	26.40	-108.02	1,351.00	110.56	961.94	911.20	50.74	18.959		
4,700.00	4,405.78	4,731.92	4,535.39	28.25	26.95	-109.24	1,362.87	132.06	962.64	910.87	51.77	18.593		
4,800.00	4,494.39	4,875.61	4,672.63	29.13	27.84	-111.05	1,381.11	170.40	960.79	907.78	53.00	18.127		
4,900.00	4,583.00	4,948.51	4,742.46	30.02	28.29	-112.05	1,388.95	189.80	958.81	904.83	53.98	17.763		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,912.22	4,593.83	4,956.90	4,750.54	30.12	28.34	-112.17	1,389.83	191.89	958.79	904.70	54.09	17.726 CC		
5,000.00	4,671.61	5,017.26	4,808.76	30.90	28.69	-113.02	1,396.77	206.20	960.12	905.27	54.85	17.504		
5,100.00	4,760.22	5,128.32	4,915.49	31.79	29.35	-114.43	1,412.33	232.60	963.13	907.23	55.90	17.229		
5,200.00	4,848.83	5,208.00	4,991.69	32.67	29.85	-115.35	1,424.81	252.30	966.29	909.44	56.85	16.998		
5,300.00	4,937.44	5,282.63	5,063.52	33.56	30.28	-116.26	1,436.13	269.07	971.83	914.15	57.68	16.848		
5,400.00	5,026.05	5,400.90	5,178.04	34.45	30.94	-117.83	1,452.05	293.98	978.57	919.91	58.66	16.683		
5,500.00	5,114.66	5,520.55	5,293.55	35.34	31.63	-119.43	1,466.84	321.42	983.76	924.18	59.58	16.512		
5,600.00	5,203.27	5,624.06	5,392.65	36.23	32.26	-120.70	1,480.44	348.02	986.93	926.46	60.47	16.322		
5,700.00	5,291.88	5,694.19	5,460.00	37.12	32.67	-121.55	1,489.87	365.11	992.03	930.84	61.20	16.211		
5,800.00	5,380.50	5,763.67	5,527.46	38.01	33.05	-122.48	1,498.48	379.35	1,000.84	939.04	61.81	16.193		
5,900.00	5,469.11	5,862.74	5,624.21	38.90	33.56	-123.93	1,508.47	398.11	1,011.32	948.87	62.45	16.195		
6,000.00	5,557.72	5,977.61	5,735.87	39.79	34.17	-125.46	1,521.77	421.56	1,021.29	958.09	63.20	16.161		
6,100.00	5,646.33	6,101.47	5,855.10	40.68	34.89	-126.86	1,539.31	450.11	1,029.64	965.57	64.07	16.070		
6,200.00	5,734.94	6,179.33	5,929.86	41.58	35.36	-127.69	1,550.96	468.44	1,038.00	973.24	64.76	16.028		
6,300.00	5,823.55	6,267.20	6,014.73	42.47	35.86	-128.67	1,563.12	487.72	1,048.15	982.72	65.43	16.020		
6,400.00	5,912.16	6,346.68	6,091.63	43.36	36.30	-129.55	1,574.40	504.27	1,059.83	993.81	66.02	16.053		
6,500.00	6,000.77	6,440.75	6,183.16	44.26	36.79	-130.65	1,586.18	522.55	1,073.10	1,006.48	66.62	16.107		
6,600.00	6,089.38	6,561.62	6,300.60	45.15	37.44	-132.06	1,600.74	547.08	1,085.97	1,018.63	67.34	16.127		
6,700.00	6,177.99	6,714.97	6,448.36	46.05	38.34	-133.82	1,618.09	584.21	1,095.21	1,027.11	68.09	16.083		
6,800.00	6,266.60	6,827.37	6,555.23	46.94	39.07	-134.93	1,633.44	615.44	1,101.35	1,032.55	68.81	16.007		
6,900.00	6,355.21	6,902.00	6,626.37	47.84	39.54	-135.63	1,644.30	635.18	1,109.13	1,039.69	69.44	15.973		
7,000.00	6,443.82	6,989.14	6,709.93	48.74	40.07	-136.49	1,656.05	656.92	1,118.79	1,048.75	70.04	15.974		
7,100.00	6,532.43	7,055.59	6,773.99	49.63	40.46	-137.19	1,664.02	672.70	1,130.08	1,059.59	70.50	16.031		
7,200.00	6,621.04	7,121.56	6,838.08	50.53	40.81	-137.91	1,671.16	686.58	1,144.43	1,073.57	70.86	16.150		
7,300.00	6,709.65	7,219.70	6,934.09	51.42	41.30	-139.09	1,679.18	705.17	1,161.37	1,090.10	71.27	16.295		
7,400.00	6,798.26	7,412.53	7,117.68	52.32	42.07	-143.27	1,652.60	752.67	1,174.29	1,103.77	70.52	16.652		
7,500.00	6,886.87	7,470.94	7,169.68	53.22	42.25	-145.05	1,632.13	769.65	1,185.98	1,115.87	70.11	16.917		
7,600.00	6,975.48	7,525.00	7,218.49	54.12	42.41	-146.66	1,613.40	783.37	1,203.36	1,133.68	69.68	17.270		
7,656.30	7,025.36	7,525.00	7,218.49	54.62	42.41	-146.66	1,613.40	783.37	1,215.35	1,145.76	69.59	17.465		
7,700.00	7,064.54	7,554.42	7,245.25	55.00	42.47	-155.69	1,603.11	789.99	1,225.54	1,156.21	69.34	17.675		
7,750.00	7,110.29	7,577.29	7,265.97	55.40	42.51	-167.55	1,594.71	794.79	1,237.82	1,168.69	69.13	17.907		
7,800.00	7,156.67	7,614.00	7,299.06	55.75	42.59	178.51	1,580.51	801.88	1,250.59	1,181.70	68.89	18.152		
7,850.00	7,203.34	7,635.60	7,318.42	56.05	42.62	163.92	1,571.80	805.86	1,263.19	1,194.46	68.73	18.378		
7,900.00	7,249.95	7,684.23	7,361.65	56.30	42.70	149.31	1,551.46	815.01	1,275.17	1,206.63	68.54	18.605		
7,950.00	7,296.14	7,720.77	7,393.73	56.50	42.76	136.52	1,535.46	822.00	1,286.22	1,217.82	68.40	18.804		
8,000.00	7,341.56	7,749.60	7,418.69	56.64	42.80	125.94	1,522.02	827.26	1,296.75	1,228.45	68.30	18.985		
8,050.00	7,385.86	7,778.57	7,443.39	56.74	42.83	117.41	1,507.74	832.27	1,306.71	1,238.49	68.22	19.153		
8,100.00	7,428.71	7,821.38	7,479.05	56.79	42.88	110.58	1,485.17	839.42	1,315.86	1,247.72	68.14	19.312		
8,150.00	7,469.77	7,876.12	7,522.61	56.80	42.92	105.17	1,453.53	849.28	1,323.40	1,255.39	68.01	19.458		
8,200.00	7,508.75	7,933.09	7,565.81	56.77	42.97	100.95	1,418.09	860.34	1,329.14	1,261.24	67.90	19.576		
8,250.00	7,545.33	7,970.00	7,592.99	56.70	43.00	97.73	1,394.27	867.86	1,333.09	1,265.22	67.87	19.641		
8,300.00	7,579.25	7,999.73	7,613.91	56.59	43.01	95.23	1,373.99	873.75	1,336.05	1,268.15	67.90	19.677		
8,350.00	7,610.24	8,021.66	7,628.40	56.45	43.01	93.26	1,358.03	877.75	1,338.42	1,270.45	67.98	19.690		
8,400.00	7,638.06	8,059.00	7,651.09	56.28	43.03	91.78	1,329.02	883.82	1,340.34	1,272.37	67.98	19.717		
8,450.00	7,662.52	8,059.00	7,651.09	56.09	43.03	90.55	1,329.02	883.82	1,341.24	1,272.96	68.28	19.642		
8,500.00	7,683.41	8,092.47	7,669.36	55.88	43.00	89.81	1,301.40	888.56	1,341.50	1,273.12	68.38	19.619		
8,550.00	7,700.59	8,118.30	7,682.22	55.64	42.98	89.35	1,279.24	891.83	1,341.01	1,272.44	68.57	19.558		
8,600.00	7,713.91	8,148.00	7,695.60	55.39	42.97	89.21	1,252.93	895.15	1,339.77	1,271.02	68.75	19.488		
8,650.00	7,723.29	8,180.81	7,709.07	55.14	42.92	89.39	1,223.20	898.48	1,337.61	1,268.66	68.94	19.402		
8,700.00	7,728.64	8,219.10	7,723.59	54.87	42.88	89.96	1,187.97	902.16	1,334.32	1,265.22	69.10	19.309		
8,740.83	7,730.00	8,249.20	7,734.12	54.65	42.85	90.65	1,159.90	904.90	1,330.86	1,261.58	69.28	19.210		
8,800.00	7,730.00	8,291.01	7,747.85	54.33	42.80	91.25	1,120.57	908.35	1,325.83	1,256.25	69.58	19.055		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	8,356.83	7,767.41	53.82	42.72	92.11	1,057.88	912.82	1,319.34	1,249.21	70.13	18.812		
9,000.00	7,730.00	8,416.00	7,781.93	53.33	42.66	92.74	1,000.58	915.23	1,315.91	1,245.17	70.73	18.604		
9,053.31	7,730.00	8,446.81	7,788.03	53.08	42.61	93.01	970.39	915.74	1,315.40	1,244.34	71.06	18.510		
9,100.00	7,730.00	8,472.54	7,792.13	52.87	42.58	93.19	944.99	915.67	1,315.78	1,244.45	71.33	18.445		
9,200.00	7,730.00	8,577.89	7,800.77	52.44	42.45	93.56	840.08	913.21	1,318.31	1,247.04	71.27	18.498		
9,300.00	7,730.00	8,734.01	7,803.21	52.03	42.40	93.67	683.99	914.29	1,317.36	1,246.41	70.95	18.567		
9,400.00	7,730.00	8,819.94	7,804.70	51.65	42.45	93.74	598.12	916.87	1,314.24	1,242.81	71.43	18.399		
9,466.65	7,730.00	8,861.00	7,804.98	51.40	42.49	93.75	557.06	917.18	1,313.56	1,241.71	71.84	18.284		
9,500.00	7,730.00	8,883.98	7,804.97	51.29	42.50	93.75	534.07	917.03	1,313.67	1,241.63	72.04	18.235		
9,600.00	7,730.00	8,950.00	7,804.26	50.95	42.57	93.72	468.09	915.33	1,315.80	1,243.15	72.65	18.111		
9,700.00	7,730.00	9,054.90	7,803.75	50.64	42.72	93.68	363.27	911.27	1,319.31	1,245.99	73.32	17.994		
9,800.00	7,730.00	9,183.83	7,803.24	50.35	43.04	93.66	234.36	909.12	1,320.43	1,246.15	74.29	17.775		
9,900.00	7,730.00	9,294.12	7,802.61	50.09	43.44	93.63	124.08	908.03	1,321.06	1,245.64	75.42	17.515		
10,000.00	7,730.00	9,403.18	7,803.32	49.86	43.95	93.66	15.02	908.08	1,320.71	1,243.94	76.77	17.203		
10,100.00	7,730.00	9,507.36	7,803.20	49.65	44.54	93.66	-89.15	908.69	1,319.78	1,241.55	78.22	16.872		
10,200.00	7,730.00	9,602.63	7,802.38	49.48	45.17	93.62	-184.42	908.99	1,319.06	1,239.39	79.68	16.556		
10,291.66	7,730.00	9,686.16	7,800.91	49.36	45.77	93.56	-267.93	909.12	1,318.53	1,237.52	81.02	16.274		
10,300.00	7,730.00	9,691.93	7,800.74	49.35	45.82	93.55	-273.70	909.08	1,318.54	1,237.43	81.11	16.256		
10,400.00	7,730.00	9,770.37	7,797.18	49.27	46.43	93.40	-352.04	907.49	1,319.86	1,237.48	82.38	16.021		
10,500.00	7,730.00	10,500.00	7,794.79	49.26	53.98	93.29	-496.54	907.25	1,319.41	1,227.53	91.88	14.360		
10,600.00	7,730.00	10,040.80	7,798.61	49.32	48.95	93.47	-622.25	911.18	1,315.94	1,228.14	87.80	14.989		
10,700.00	7,730.00	10,136.71	7,801.92	49.51	49.97	93.62	-718.07	914.14	1,312.72	1,222.84	89.88	14.605		
10,800.00	7,730.00	10,242.91	7,805.20	49.83	51.16	93.78	-824.16	917.66	1,309.27	1,216.95	92.32	14.182		
10,900.00	7,730.00	10,339.95	7,807.89	50.31	52.29	93.91	-921.10	921.07	1,305.61	1,211.02	94.58	13.804		
11,000.00	7,730.00	10,474.76	7,810.17	50.96	53.93	94.02	-1,055.77	926.56	1,301.49	1,203.45	98.04	13.275		
11,100.00	7,730.00	10,531.21	7,810.97	51.75	54.64	94.07	-1,112.17	928.68	1,297.30	1,198.13	99.18	13.081		
11,200.00	7,730.00	10,608.40	7,810.91	52.66	55.60	94.07	-1,189.35	929.67	1,295.63	1,194.71	100.92	12.838		
11,300.00	7,730.00	10,695.68	7,810.17	53.67	56.70	94.04	-1,276.63	929.74	1,295.14	1,192.14	103.00	12.574		
11,302.44	7,730.00	10,697.84	7,810.15	53.70	56.73	94.04	-1,278.79	929.73	1,295.14	1,192.09	103.05	12.568		
11,400.00	7,730.00	10,792.56	7,808.94	54.75	57.94	93.98	-1,373.50	929.09	1,295.37	1,189.94	105.43	12.286		
11,500.00	7,730.00	10,895.93	7,806.90	55.89	59.29	93.89	-1,476.85	928.50	1,295.47	1,187.33	108.14	11.980		
11,600.00	7,730.00	10,997.37	7,802.57	57.07	60.65	93.70	-1,578.19	927.95	1,295.39	1,184.59	110.80	11.691		
11,700.00	7,730.00	11,100.41	7,795.83	58.30	62.05	93.40	-1,681.00	927.46	1,295.12	1,181.59	113.54	11.407		
11,800.00	7,730.00	11,196.57	7,788.87	59.55	63.39	93.09	-1,776.91	927.04	1,294.80	1,178.75	116.05	11.157		
11,805.50	7,730.00	11,201.51	7,788.50	59.62	63.45	93.08	-1,781.84	927.01	1,294.80	1,178.63	116.18	11.145		
11,900.00	7,730.00	11,292.75	7,781.48	60.84	64.73	92.77	-1,872.80	926.11	1,295.04	1,176.45	118.59	10.920		
12,000.00	7,730.00	11,393.55	7,773.38	62.15	66.16	92.41	-1,973.27	925.17	1,295.27	1,173.93	121.34	10.675		
12,100.00	7,730.00	11,499.45	7,763.82	63.49	67.68	91.98	-2,078.74	924.36	1,295.35	1,171.05	124.30	10.421		
12,200.00	7,730.00	11,606.23	7,752.60	64.85	69.23	91.49	-2,184.92	924.28	1,294.75	1,167.44	127.32	10.169		
12,242.00	7,730.00	11,639.77	7,749.70	65.42	69.72	91.36	-2,218.34	924.20	1,294.62	1,166.46	128.16	10.102		
12,300.00	7,730.00	11,690.19	7,746.95	66.22	70.46	91.24	-2,268.68	923.74	1,294.87	1,165.37	129.50	9.999		
12,400.00	7,730.00	11,806.18	7,743.42	67.62	72.18	91.08	-2,384.60	923.83	1,294.32	1,161.22	133.10	9.725		
12,452.79	7,730.00	11,850.70	7,743.03	68.36	72.85	91.06	-2,429.13	923.81	1,294.15	1,159.83	134.32	9.635		
12,500.00	7,730.00	11,893.78	7,743.23	69.03	73.49	91.07	-2,472.20	923.59	1,294.24	1,158.68	135.56	9.547		
12,600.00	7,730.00	11,993.87	7,745.17	70.45	74.99	91.16	-2,572.27	922.81	1,294.71	1,156.10	138.62	9.340		
12,700.00	7,730.00	12,122.50	7,747.73	71.90	76.95	91.27	-2,700.88	923.16	1,294.20	1,151.24	142.96	9.053		
12,800.00	7,730.00	12,205.24	7,750.49	73.35	78.22	91.40	-2,783.56	924.01	1,292.92	1,147.60	145.32	8.897		
12,900.00	7,730.00	12,318.94	7,755.58	74.81	79.98	91.62	-2,897.14	924.84	1,291.99	1,142.88	149.11	8.665		
13,000.00	7,730.00	12,426.32	7,760.25	76.29	81.66	91.83	-3,004.41	926.54	1,290.20	1,137.57	152.63	8.453		
13,100.00	7,730.00	12,525.63	7,764.33	77.78	83.23	92.02	-3,103.61	928.73	1,287.79	1,132.00	155.80	8.266		
13,200.00	7,730.00	12,625.13	7,769.43	79.28	84.81	92.25	-3,202.96	930.37	1,285.99	1,126.99	159.00	8.088		
13,300.00	7,730.00	12,714.28	7,773.92	80.79	86.22	92.45	-3,291.98	932.04	1,284.03	1,122.30	161.73	7.939		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,400.00	7,730.00	12,808.98	7,779.32	82.31	87.73	92.69	-3,386.52	932.59	1,283.34	1,118.62	164.72	7.791		
13,500.00	7,730.00	12,926.85	7,785.87	83.84	89.61	92.99	-3,504.20	934.18	1,281.94	1,113.11	168.83	7.593		
13,600.00	7,730.00	13,003.20	7,790.43	85.37	90.84	93.20	-3,580.41	935.13	1,280.68	1,109.72	170.97	7.491		
13,700.00	7,730.00	13,113.92	7,797.19	86.92	92.62	93.50	-3,690.92	935.70	1,280.21	1,105.44	174.77	7.325		
13,800.00	7,730.00	13,218.14	7,802.91	88.47	94.30	93.76	-3,794.97	937.36	1,278.61	1,100.36	178.26	7.173		
13,880.82	7,730.00	13,280.45	7,805.82	89.73	95.31	93.90	-3,857.22	937.80	1,278.03	1,098.03	179.99	7.100		
13,900.00	7,730.00	13,295.73	7,806.45	90.03	95.56	93.92	-3,872.47	937.76	1,278.06	1,097.63	180.42	7.084		
14,000.00	7,730.00	13,377.24	7,808.67	91.59	96.87	94.02	-3,953.95	936.77	1,279.12	1,096.38	182.73	7.000		
14,100.00	7,730.00	13,482.29	7,809.14	93.16	98.56	94.04	-4,058.97	934.77	1,280.70	1,094.46	186.24	6.877		
14,200.00	7,730.00	13,582.71	7,807.62	94.74	100.18	93.96	-4,159.38	933.20	1,281.82	1,092.32	189.50	6.764		
14,300.00	7,730.00	13,716.78	7,808.10	96.33	102.35	93.98	-4,293.42	931.44	1,283.15	1,088.66	194.49	6.597		
14,400.00	7,730.00	13,876.29	7,810.17	97.92	105.01	94.10	-4,452.74	938.62	1,277.76	1,077.18	200.58	6.370		
14,500.00	7,730.00	13,961.27	7,811.84	99.51	106.44	94.19	-4,537.57	943.10	1,272.32	1,069.07	203.25	6.260		
14,600.00	7,730.00	14,029.42	7,812.58	101.11	107.57	94.23	-4,605.68	945.60	1,268.51	1,063.44	205.07	6.186		
14,668.15	7,730.00	14,068.32	7,812.77	102.21	108.22	94.24	-4,644.58	945.93	1,267.72	1,061.87	205.85	6.158		
14,700.00	7,730.00	14,086.00	7,812.81	102.72	108.51	94.24	-4,662.25	945.78	1,267.90	1,061.74	206.15	6.150		
14,800.00	7,730.00	14,165.33	7,811.89	104.33	109.80	94.20	-4,741.55	943.94	1,269.80	1,061.49	208.31	6.096		
14,900.00	7,730.00	14,275.80	7,810.96	105.94	111.61	94.15	-4,851.96	940.74	1,272.31	1,060.12	212.19	5.996		
15,000.00	7,730.00	14,384.42	7,812.09	107.56	113.39	94.19	-4,960.55	938.61	1,274.00	1,058.02	215.98	5.899		
15,100.00	7,730.00	14,491.00	7,812.34	109.18	115.15	94.20	-5,067.13	937.42	1,274.78	1,055.11	219.66	5.803		
15,200.00	7,730.00	14,594.89	7,813.88	110.81	116.87	94.27	-5,171.00	936.45	1,275.49	1,052.27	223.21	5.714		
15,300.00	7,730.00	14,712.07	7,815.36	112.44	118.83	94.33	-5,288.17	936.38	1,275.31	1,047.84	227.47	5.607		
15,400.00	7,730.00	14,816.63	7,816.57	114.08	120.58	94.39	-5,392.71	937.38	1,274.10	1,043.03	231.06	5.514		
15,500.00	7,730.00	14,910.36	7,818.35	115.72	122.16	94.48	-5,486.43	938.04	1,273.19	1,039.09	234.10	5.439		
15,600.00	7,730.00	15,012.08	7,820.00	117.36	123.87	94.55	-5,588.13	938.92	1,272.12	1,034.56	237.56	5.355		
15,700.00	7,730.00	15,108.83	7,823.55	119.00	125.49	94.72	-5,684.81	939.41	1,271.56	1,030.79	240.77	5.281		
15,800.00	7,730.00	15,217.98	7,827.01	120.65	127.34	94.88	-5,793.89	940.51	1,270.48	1,025.85	244.63	5.193		
15,900.00	7,730.00	15,317.54	7,829.02	122.30	129.02	94.97	-5,893.43	941.78	1,269.04	1,021.05	247.99	5.117		
16,000.00	7,730.00	15,413.54	7,830.42	123.96	130.65	95.04	-5,989.42	942.72	1,267.85	1,016.68	251.17	5.048		
16,073.44	7,730.00	15,474.00	7,831.47	125.17	131.67	95.09	-6,049.86	942.99	1,267.41	1,014.45	252.95	5.010		
16,100.00	7,730.00	15,494.76	7,831.94	125.61	132.02	95.11	-6,070.62	942.91	1,267.47	1,013.93	253.54	4.999		
16,200.00	7,730.00	15,592.75	7,834.68	127.27	133.67	95.23	-6,168.56	942.05	1,268.25	1,011.44	256.80	4.939		
16,300.00	7,730.00	15,713.53	7,838.65	128.94	135.71	95.41	-6,289.28	942.25	1,268.05	1,006.73	261.32	4.853		
16,400.00	7,730.00	15,818.90	7,841.77	130.60	137.51	95.56	-6,394.60	943.56	1,266.75	1,001.76	264.99	4.780		
16,500.00	7,730.00	15,922.72	7,844.89	132.27	139.28	95.71	-6,498.35	945.07	1,265.27	996.68	268.59	4.711		
16,600.00	7,730.00	16,013.94	7,847.49	133.94	140.83	95.84	-6,589.53	946.56	1,263.61	992.09	271.52	4.654		
16,700.00	7,730.00	16,103.79	7,849.61	135.61	142.36	95.93	-6,679.35	946.86	1,263.16	988.80	274.37	4.604		
16,800.00	7,730.00	16,222.44	7,852.79	137.28	144.39	96.08	-6,797.96	947.63	1,262.50	983.75	278.76	4.529		
16,900.00	7,730.00	16,338.97	7,854.80	138.96	146.39	96.19	-6,914.43	950.59	1,259.78	976.78	283.00	4.452		
17,000.00	7,730.00	16,417.30	7,855.27	140.64	147.73	96.22	-6,992.74	952.03	1,257.66	972.36	285.29	4.408		
17,100.00	7,730.00	16,508.49	7,855.59	142.32	149.29	96.24	-7,083.93	952.59	1,256.74	968.52	288.23	4.360		
17,200.00	7,730.00	16,605.98	7,855.88	144.00	150.95	96.26	-7,181.42	952.79	1,256.23	964.74	291.49	4.310		
17,300.00	7,730.00	16,703.97	7,856.34	145.69	152.63	96.28	-7,279.41	952.74	1,255.99	961.20	294.79	4.261		
17,400.00	7,730.00	16,809.51	7,857.70	147.37	154.43	96.34	-7,384.93	953.01	1,255.54	957.04	298.50	4.206		
17,500.00	7,730.00	16,920.59	7,859.82	149.06	156.34	96.45	-7,496.00	954.02	1,254.52	952.01	302.51	4.147		
17,600.00	7,730.00	17,033.51	7,861.79	150.75	158.28	96.55	-7,608.87	956.24	1,252.43	945.84	306.59	4.085		
17,700.00	7,730.00	17,142.10	7,863.58	152.44	160.16	96.65	-7,717.40	959.30	1,249.48	939.04	310.44	4.025		
17,800.00	7,730.00	17,243.32	7,864.71	154.13	161.91	96.72	-7,818.57	962.59	1,246.04	932.12	313.92	3.969		
17,900.00	7,730.00	17,334.80	7,865.17	155.83	163.50	96.76	-7,910.01	965.16	1,242.97	926.05	316.92	3.922		
18,000.00	7,730.00	17,424.62	7,865.28	157.52	165.05	96.77	-7,999.81	966.92	1,240.70	920.88	319.82	3.879		
18,100.00	7,730.00	17,519.74	7,866.07	159.22	166.69	96.82	-8,094.92	968.20	1,239.12	916.14	322.98	3.837		
18,200.00	7,730.00	17,613.94	7,867.24	160.92	168.31	96.88	-8,189.11	969.34	1,237.73	911.65	326.08	3.796		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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
18,300.00	7,730.00	17,704.23	7,868.19	162.62	169.87	96.93	-8,279.39	969.66	1,237.16	908.20	328.96	3.761	
18,340.46	7,730.00	17,741.82	7,868.55	163.31	170.51	96.94	-8,316.98	969.62	1,237.11	906.94	330.18	3.747	
18,400.00	7,730.00	17,798.61	7,869.07	164.32	171.49	96.97	-8,373.76	969.41	1,237.20	905.15	332.05	3.726	
18,426.22	7,730.00	17,824.83	7,869.30	164.76	171.94	96.98	-8,399.98	969.29	1,237.26	904.31	332.95	3.716 ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-16.17	218.21	-63.28	227.42				
100.00	100.00	92.68	92.68	0.13	0.16	-16.25	217.60	-63.41	226.67	226.38	0.29	777.927	
200.00	200.00	196.85	196.82	0.49	0.39	-16.54	215.36	-63.95	224.76	223.87	0.88	255.001	
300.00	300.00	301.88	301.66	0.85	0.78	-17.53	209.76	-66.26	220.29	218.66	1.63	135.399	
400.00	400.00	400.00	399.40	1.21	1.15	-19.37	202.70	-71.25	215.06	212.72	2.35	91.605	
500.00	500.00	496.33	495.28	1.57	1.53	-21.72	196.66	-78.34	211.76	208.68	3.08	68.844	
600.00	600.00	594.68	592.91	1.93	1.92	-24.88	190.39	-88.30	209.89	206.06	3.83	54.788	
676.33	676.33	668.97	666.33	2.20	2.24	-27.98	184.82	-98.18	209.28	204.86	4.42	47.320 CC	
700.00	700.00	691.75	688.80	2.29	2.34	-29.02	183.06	-101.56	209.35	204.74	4.61	45.435 ES	
800.00	800.00	787.86	783.18	2.64	2.77	-33.92	175.17	-117.80	211.20	205.80	5.41	39.044	
900.00	900.00	881.69	874.64	3.00	3.23	-39.42	166.65	-136.98	216.27	210.05	6.22	34.756	
1,000.00	1,000.00	982.13	972.19	3.36	3.74	-45.32	157.06	-158.83	224.08	217.00	7.08	31.670	
1,100.00	1,100.00	1,081.46	1,068.94	3.72	4.25	-50.60	146.99	-178.96	232.54	224.64	7.91	29.410	
1,200.00	1,200.00	1,180.18	1,164.99	4.08	4.77	-55.64	136.05	-198.99	242.35	233.63	8.72	27.796	
1,300.00	1,299.98	1,280.42	1,262.78	4.43	5.28	-107.46	124.98	-218.03	253.30	243.79	9.51	26.624	
1,400.00	1,399.84	1,377.51	1,357.78	4.79	5.77	-112.03	114.77	-235.26	266.30	256.04	10.26	25.963	
1,500.00	1,499.45	1,469.71	1,447.84	5.15	6.25	-116.55	104.84	-252.30	283.17	272.23	10.94	25.876 SF	
1,600.00	1,598.70	1,560.01	1,535.80	5.51	6.72	-120.97	95.22	-270.35	305.23	293.63	11.60	26.314	
1,700.00	1,697.47	1,651.70	1,624.92	5.89	7.21	-125.33	85.16	-289.42	332.02	319.77	12.25	27.094	
1,800.00	1,795.62	1,743.94	1,714.55	6.28	7.71	-129.46	74.69	-308.51	362.87	349.96	12.91	28.113	
1,900.00	1,893.06	1,836.71	1,804.90	6.69	8.20	-133.13	65.14	-327.26	397.45	383.88	13.57	29.298	
2,000.00	1,989.64	1,930.02	1,896.06	7.13	8.68	-136.39	56.38	-345.14	435.00	420.77	14.23	30.572	
2,100.00	2,085.27	2,018.52	1,982.77	7.61	9.12	-138.90	50.26	-361.72	475.73	460.87	14.87	32.002	
2,200.00	2,179.82	2,099.76	2,062.32	8.12	9.52	-140.86	45.43	-377.51	520.47	505.01	15.46	33.664	
2,300.00	2,273.17	2,176.62	2,137.38	8.67	9.91	-142.43	41.39	-393.50	569.60	553.56	16.04	35.516	
2,400.00	2,365.21	2,255.09	2,213.86	9.27	10.32	-143.87	37.45	-410.64	622.73	606.08	16.64	37.414	
2,500.00	2,455.84	2,333.35	2,290.05	9.92	10.73	-145.18	33.29	-428.04	679.27	662.01	17.26	39.345	
2,580.62	2,527.80	2,397.93	2,352.91	10.49	11.07	-146.15	30.10	-442.50	727.05	709.26	17.79	40.872	
2,600.00	2,544.97	2,414.05	2,368.60	10.63	11.15	-146.55	29.34	-446.07	738.73	720.81	17.92	41.220	
2,700.00	2,633.58	2,491.38	2,443.98	11.37	11.55	-148.27	25.73	-462.97	799.05	780.49	18.55	43.067	
2,800.00	2,722.19	2,561.22	2,511.96	12.13	11.92	-149.71	21.37	-478.40	860.35	841.22	19.13	44.967	
2,900.00	2,810.80	2,644.79	2,593.30	12.91	12.37	-151.27	15.50	-496.62	922.02	902.19	19.83	46.503	
3,000.00	2,899.41	2,724.49	2,670.99	13.71	12.79	-152.59	9.74	-513.48	983.61	963.11	20.49	47.993	
3,100.00	2,988.02	2,811.86	2,756.26	14.52	13.24	-153.88	3.39	-531.43	1,045.05	1,023.82	21.22	49.241	
3,200.00	3,076.63	2,897.95	2,840.45	15.34	13.68	-155.00	-2.45	-548.38	1,105.94	1,083.99	21.94	50.399	
3,300.00	3,165.24	2,968.85	2,909.84	16.16	14.04	-155.82	-7.18	-562.17	1,166.84	1,144.29	22.55	51.738	
3,400.00	3,253.85	3,030.29	2,969.81	17.00	14.36	-156.45	-11.28	-574.88	1,228.81	1,205.71	23.09	53.213	
3,500.00	3,342.46	3,084.63	3,022.66	17.84	14.65	-156.97	-15.18	-586.92	1,292.11	1,268.54	23.58	54.808	
3,600.00	3,431.07	3,149.08	3,085.10	18.69	15.01	-157.54	-20.27	-602.07	1,356.70	1,332.56	24.14	56.198	
3,700.00	3,519.68	3,235.02	3,168.37	19.55	15.49	-158.26	-27.38	-622.05	1,421.39	1,396.50	24.89	57.111	
3,800.00	3,608.29	3,341.56	3,272.05	20.40	16.06	-159.10	-36.26	-644.90	1,484.90	1,459.10	25.80	57.563	
3,900.00	3,696.90	3,423.65	3,352.22	21.26	16.49	-159.69	-42.83	-661.32	1,547.34	1,520.84	26.51	58.379	
4,000.00	3,785.51	3,480.70	3,407.82	22.13	16.79	-160.07	-47.42	-673.21	1,610.51	1,583.49	27.02	59.608	
4,100.00	3,874.12	3,534.92	3,460.51	23.00	17.09	-160.39	-51.76	-685.28	1,674.72	1,647.21	27.51	60.876	
4,200.00	3,962.73	3,592.15	3,515.90	23.87	17.41	-160.68	-56.10	-698.99	1,739.98	1,711.95	28.03	62.080	
4,300.00	4,051.34	3,712.42	3,632.52	24.74	18.07	-161.22	-64.26	-727.20	1,804.71	1,775.63	29.07	62.071	
4,400.00	4,139.95	3,803.93	3,721.78	25.62	18.56	-161.66	-71.01	-746.24	1,867.76	1,837.89	29.87	62.525	
4,500.00	4,228.56	3,864.00	3,780.29	26.49	18.88	-161.92	-75.54	-759.05	1,931.32	1,900.90	30.42	63.493	
4,600.00	4,317.17	3,949.30	3,863.34	27.37	19.34	-162.29	-82.30	-777.27	1,995.11	1,963.94	31.17	64.012	
4,700.00	4,405.78	4,028.12	3,940.17	28.25	19.75	-162.62	-88.85	-793.61	2,058.64	2,026.77	31.86	64.606	
4,800.00	4,494.39	4,093.13	4,003.52	29.13	20.10	-162.88	-94.25	-807.18	2,122.32	2,089.87	32.45	65.400	
4,900.00	4,583.00	4,151.26	4,060.07	30.02	20.42	-163.11	-99.65	-819.53	2,186.65	2,153.66	32.98	66.299	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,211.97	4,119.02	30.90	20.75	-163.35	-105.65	-832.73	2,251.57	2,218.04	33.53	67.145		
5,100.00	4,760.22	4,390.89	4,293.55	31.79	21.69	-163.97	-121.07	-868.82	2,314.86	2,279.84	35.03	66.085		
5,200.00	4,848.83	4,497.32	4,397.94	32.67	22.21	-164.31	-128.90	-888.00	2,376.36	2,340.43	35.93	66.136		
5,300.00	4,937.44	4,586.77	4,754.11	33.56	23.69	-165.38	-146.10	-931.26	2,432.55	2,394.10	38.45	63.262		
5,400.00	5,026.05	5,116.88	5,014.00	34.45	24.46	-166.11	-148.53	-939.65	2,480.09	2,440.06	40.04	61.943		
5,500.00	5,114.66	5,206.51	5,103.63	35.34	24.69	-166.37	-148.75	-939.54	2,525.40	2,484.65	40.75	61.973		
5,600.00	5,203.27	5,292.40	5,189.52	36.23	24.89	-166.62	-149.36	-939.31	2,570.86	2,529.42	41.44	62.037		
5,700.00	5,291.88	5,387.01	5,284.12	37.12	25.13	-166.90	-150.38	-938.72	2,616.25	2,574.08	42.17	62.041		
5,800.00	5,380.50	5,474.71	5,371.80	38.01	25.34	-167.16	-151.53	-937.88	2,661.55	2,618.68	42.87	62.089		
5,900.00	5,469.11	5,548.12	5,445.21	38.90	25.53	-167.36	-152.48	-937.50	2,707.20	2,663.70	43.50	62.232		
6,000.00	5,557.72	5,636.61	5,533.70	39.79	25.76	-167.59	-153.22	-937.58	2,753.14	2,708.93	44.22	62.263		
6,100.00	5,646.33	5,736.22	5,633.31	40.68	26.03	-167.81	-153.19	-937.98	2,798.94	2,753.95	44.99	62.211		
6,200.00	5,734.94	5,827.86	5,724.95	41.58	26.28	-168.00	-152.68	-938.36	2,844.52	2,798.80	45.72	62.213		
6,300.00	5,823.55	5,912.60	5,809.68	42.47	26.51	-168.16	-152.16	-938.75	2,890.14	2,843.72	46.42	62.258		
6,400.00	5,912.16	5,991.51	5,888.59	43.36	26.73	-168.31	-151.71	-939.30	2,935.97	2,888.88	47.10	62.340		
6,500.00	6,000.77	6,071.30	5,968.37	44.26	26.95	-168.46	-151.33	-940.13	2,982.12	2,934.35	47.78	62.418		
6,600.00	6,089.38	6,155.07	6,052.13	45.15	27.20	-168.61	-150.88	-941.27	3,028.50	2,980.02	48.48	62.468		
6,700.00	6,177.99	6,234.76	6,131.82	46.05	27.43	-168.74	-150.69	-942.31	3,075.00	3,025.84	49.16	62.545		
6,800.00	6,266.60	6,306.14	6,203.18	46.94	27.64	-168.86	-150.63	-943.60	3,121.96	3,072.16	49.80	62.685		
6,900.00	6,355.21	6,403.49	6,300.51	47.84	27.94	-169.02	-150.46	-945.53	3,169.02	3,118.43	50.59	62.646		
7,000.00	6,443.82	6,488.96	6,385.96	48.74	28.20	-169.15	-150.16	-947.23	3,216.02	3,164.71	51.30	62.685		
7,100.00	6,532.43	6,583.07	6,480.06	49.63	28.48	-169.28	-149.86	-949.00	3,262.96	3,210.89	52.07	62.664		
7,200.00	6,621.04	6,690.23	6,587.21	50.53	28.80	-169.46	-150.05	-950.21	3,309.62	3,256.71	52.90	62.558		
7,300.00	6,709.65	6,805.04	6,702.01	51.42	29.12	-169.67	-151.21	-949.76	3,355.54	3,301.78	53.76	62.417		
7,400.00	6,798.26	6,890.97	6,787.95	52.32	29.35	-169.81	-151.77	-949.28	3,401.21	3,346.75	54.46	62.452		
7,500.00	6,886.87	6,964.73	6,861.70	53.22	29.56	-169.94	-152.23	-949.17	3,447.20	3,392.09	55.10	62.560		
7,600.00	6,975.48	7,040.84	6,937.80	54.12	29.78	-170.06	-152.76	-949.38	3,493.54	3,437.78	55.76	62.650		
7,656.30	7,025.36	7,082.75	6,979.71	54.62	29.90	-170.12	-153.07	-949.62	3,519.78	3,463.64	56.13	62.706		
7,700.00	7,064.54	7,115.46	7,012.42	55.00	30.00	-179.19	-153.37	-949.86	3,539.47	3,483.06	56.41	62.743		
7,750.00	7,110.29	7,153.97	7,050.93	55.40	30.12	168.87	-153.77	-950.19	3,560.15	3,503.43	56.73	62.759		
7,800.00	7,156.67	7,193.82	7,090.78	55.75	30.24	155.41	-154.20	-950.61	3,578.70	3,521.67	57.04	62.744		
7,850.00	7,203.34	7,233.90	7,130.85	56.05	30.37	141.18	-154.62	-951.12	3,595.00	3,537.67	57.33	62.705		
7,900.00	7,249.95	7,287.96	7,184.90	56.30	30.53	127.55	-155.24	-951.77	3,608.85	3,551.16	57.69	62.554		
7,950.00	7,296.14	7,342.19	7,239.13	56.50	30.70	115.66	-155.98	-952.20	3,620.09	3,562.06	58.04	62.374		
8,000.00	7,341.56	7,374.28	7,271.21	56.64	30.80	105.85	-156.52	-952.45	3,628.86	3,570.61	58.24	62.306		
8,050.00	7,385.86	7,409.82	7,306.74	56.74	30.91	98.22	-157.23	-952.75	3,635.15	3,576.70	58.45	62.188		
8,100.00	7,428.71	7,460.58	7,357.49	56.79	31.06	92.54	-158.38	-953.13	3,638.94	3,580.19	58.74	61.949		
8,150.00	7,469.77	7,500.00	7,463.42	56.80	31.01	88.88	-160.48	-952.71	3,639.67	3,578.46	61.21	59.465		
8,200.00	7,508.75	7,568.62	7,565.47	56.77	31.64	86.49	-161.64	-950.78	3,637.29	3,577.44	59.85	60.774		
8,250.00	7,545.33	7,721.34	7,618.18	56.70	31.78	84.64	-161.72	-949.48	3,632.24	3,572.13	60.11	60.422		
8,300.00	7,579.25	7,781.98	7,678.79	56.59	31.94	83.71	-161.47	-947.77	3,624.78	3,564.36	60.42	59.995		
8,350.00	7,610.24	7,874.61	7,771.34	56.45	32.17	83.91	-160.27	-944.36	3,614.92	3,554.05	60.88	59.383		
8,400.00	7,638.06	7,928.83	7,825.50	56.28	32.31	84.27	-159.08	-941.82	3,602.78	3,541.63	61.15	58.917		
8,450.00	7,662.52	7,968.82	7,865.42	56.09	32.41	84.96	-158.00	-939.81	3,588.84	3,527.48	61.37	58.483		
8,500.00	7,683.41	8,002.14	7,898.68	55.88	32.49	86.01	-156.99	-938.04	3,573.31	3,511.75	61.56	58.046		
8,550.00	7,700.59	8,050.00	7,888.89	55.64	33.85	86.76	-157.34	-938.60	3,556.57	3,493.30	63.27	56.217		
8,600.00	7,713.91	8,003.74	7,900.28	55.39	32.49	88.19	-157.03	-937.99	3,538.57	3,476.88	61.68	57.366		
8,650.00	7,723.29	8,008.05	7,904.58	55.14	32.51	89.81	-156.94	-937.77	3,519.60	3,457.81	61.78	56.967		
8,700.00	7,728.64	8,010.33	7,906.86	54.87	32.51	91.69	-156.89	-937.65	3,499.76	3,437.87	61.89	56.549		
8,740.83	7,730.00	8,010.62	7,907.15	54.65	32.51	93.39	-156.89	-937.64	3,483.02	3,421.04	61.98	56.196		
8,800.00	7,730.00	8,010.01	7,906.54	54.33	32.51	93.37	-156.90	-937.67	3,458.88	3,396.76	62.12	55.679		
8,900.00	7,730.00	8,008.93	7,905.46	53.82	32.51	93.36	-156.92	-937.72	3,420.01	3,357.61	62.40	54.809		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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
9,000.00	7,730.00	8,007.80	7,904.33	53.33	32.50	93.33	-156.95	-937.78	3,383.65	3,320.92	62.72	53.947	
9,100.00	7,730.00	8,006.62	7,903.15	52.87	32.50	93.31	-156.97	-937.84	3,349.87	3,286.78	63.09	53.094	
9,200.00	7,730.00	8,005.38	7,901.92	52.44	32.50	93.29	-157.00	-937.90	3,318.77	3,255.26	63.51	52.256	
9,300.00	7,730.00	8,004.09	7,900.63	52.03	32.50	93.27	-157.03	-937.97	3,290.42	3,226.44	63.97	51.434	
9,400.00	7,730.00	8,002.73	7,899.27	51.65	32.49	93.24	-157.06	-938.04	3,264.88	3,200.40	64.48	50.633	
9,500.00	7,730.00	8,001.30	7,897.85	51.29	32.49	93.22	-157.09	-938.11	3,242.22	3,177.19	65.03	49.856	
9,600.00	7,730.00	7,999.80	7,896.35	50.95	32.48	93.19	-157.12	-938.19	3,222.51	3,156.89	65.62	49.108	
9,700.00	7,730.00	7,998.22	7,894.77	50.64	32.48	93.16	-157.16	-938.27	3,205.80	3,139.55	66.25	48.390	
9,800.00	7,730.00	7,996.56	7,893.11	50.35	32.48	93.13	-157.20	-938.35	3,192.13	3,125.23	66.91	47.709	
9,900.00	7,730.00	7,994.80	7,891.35	50.09	32.47	93.10	-157.25	-938.45	3,181.55	3,113.95	67.60	47.066	
10,000.00	7,730.00	8,000.78	7,897.32	49.86	32.49	93.21	-157.03	-938.11	3,174.07	3,105.71	68.35	46.435	
10,100.00	7,730.00	7,996.54	7,893.09	49.65	32.48	93.13	-157.16	-938.34	3,169.75	3,100.67	69.08	45.888	
10,187.30	7,730.00	7,992.92	7,889.48	49.50	32.47	93.07	-157.28	-938.54	3,168.54	3,098.82	69.72	45.444	
10,200.00	7,730.00	7,992.41	7,888.96	49.48	32.47	93.06	-157.30	-938.56	3,168.57	3,098.76	69.81	45.385	
10,300.00	7,730.00	7,988.38	7,884.95	49.35	32.46	92.98	-157.42	-938.78	3,170.55	3,099.98	70.57	44.931	
10,400.00	7,730.00	7,984.46	7,881.04	49.27	32.45	92.91	-157.54	-938.99	3,175.67	3,104.34	71.32	44.525	
10,500.00	7,730.00	7,980.64	7,877.22	49.26	32.44	92.84	-157.66	-939.19	3,183.92	3,111.83	72.08	44.170	
10,600.00	7,730.00	7,976.92	7,873.51	49.32	32.43	92.78	-157.77	-939.38	3,195.28	3,122.43	72.84	43.866	
10,700.00	7,730.00	7,973.29	7,869.88	49.51	32.42	92.71	-157.87	-939.57	3,209.71	3,136.11	73.59	43.614	
10,800.00	7,730.00	7,969.75	7,866.35	49.83	32.41	92.65	-157.98	-939.76	3,227.17	3,152.84	74.33	43.414	
10,900.00	7,730.00	7,966.30	7,862.90	50.31	32.40	92.58	-158.08	-939.94	3,247.62	3,172.55	75.06	43.266	
11,000.00	7,730.00	7,962.92	7,859.54	50.96	32.39	92.52	-158.17	-940.11	3,270.99	3,195.22	75.77	43.169	
11,100.00	7,730.00	7,959.63	7,856.25	51.75	32.38	92.46	-158.27	-940.28	3,297.23	3,220.77	76.46	43.122	
11,200.00	7,730.00	7,956.42	7,853.04	52.66	32.38	92.41	-158.36	-940.44	3,326.27	3,249.14	77.13	43.125	
11,300.00	7,730.00	7,953.28	7,849.90	53.67	32.37	92.35	-158.44	-940.60	3,358.03	3,280.26	77.77	43.177	
11,400.00	7,730.00	7,950.21	7,846.84	54.75	32.36	92.29	-158.52	-940.76	3,392.44	3,314.05	78.39	43.275	
11,500.00	7,730.00	7,947.21	7,843.85	55.89	32.35	92.24	-158.60	-940.91	3,429.43	3,350.44	78.98	43.420	
11,600.00	7,730.00	7,944.28	7,840.92	57.07	32.35	92.19	-158.68	-941.06	3,468.89	3,389.35	79.55	43.608	
11,700.00	7,730.00	7,941.41	7,838.06	58.30	32.34	92.14	-158.76	-941.20	3,510.76	3,430.68	80.08	43.840	
11,800.00	7,730.00	7,938.61	7,835.26	59.55	32.33	92.08	-158.83	-941.34	3,554.95	3,474.37	80.59	44.113	
11,900.00	7,730.00	7,935.86	7,832.52	60.84	32.33	92.03	-158.90	-941.47	3,601.38	3,520.31	81.07	44.425	
12,000.00	7,730.00	7,933.18	7,829.84	62.15	32.32	91.99	-158.97	-941.61	3,649.95	3,568.43	81.52	44.775	
12,100.00	7,730.00	7,930.55	7,827.22	63.49	32.31	91.94	-159.04	-941.74	3,700.58	3,618.64	81.94	45.162	
12,200.00	7,730.00	7,927.98	7,824.65	64.85	32.31	91.89	-159.10	-941.86	3,753.20	3,670.86	82.34	45.583	
12,300.00	7,730.00	7,925.46	7,822.13	66.22	32.30	91.85	-159.16	-941.98	3,807.71	3,725.00	82.71	46.038	
12,400.00	7,730.00	7,922.99	7,819.67	67.62	32.29	91.80	-159.22	-942.10	3,864.04	3,780.99	83.05	46.524	
12,500.00	7,730.00	7,920.58	7,817.25	69.03	32.29	91.76	-159.28	-942.22	3,922.11	3,838.74	83.38	47.041	
12,600.00	7,730.00	7,918.21	7,814.89	70.45	32.28	91.72	-159.34	-942.34	3,981.85	3,898.17	83.68	47.586	
12,700.00	7,730.00	7,915.89	7,812.57	71.90	32.28	91.67	-159.39	-942.45	4,043.17	3,959.21	83.95	48.159	
12,800.00	7,730.00	7,913.61	7,810.30	73.35	32.27	91.63	-159.44	-942.56	4,106.01	4,021.80	84.21	48.758	
12,900.00	7,730.00	7,911.38	7,808.07	74.81	32.27	91.59	-159.49	-942.66	4,170.30	4,085.85	84.45	49.382	
13,000.00	7,730.00	7,909.19	7,805.89	76.29	32.26	91.55	-159.54	-942.77	4,235.98	4,151.31	84.67	50.029	
13,100.00	7,730.00	7,907.05	7,803.74	77.78	32.25	91.51	-159.59	-942.87	4,302.97	4,218.10	84.87	50.699	
13,200.00	7,730.00	7,904.94	7,801.64	79.28	32.25	91.48	-159.64	-942.97	4,371.23	4,286.17	85.06	51.390	
13,300.00	7,730.00	7,902.88	7,799.58	80.79	32.24	91.44	-159.69	-943.07	4,440.69	4,355.46	85.23	52.102	
13,400.00	7,730.00	7,902.80	7,799.50	82.31	32.24	91.44	-159.69	-943.06	4,511.29	4,425.90	85.39	52.829	
13,500.00	7,730.00	7,900.40	7,797.11	83.84	32.24	91.39	-159.74	-943.18	4,582.99	4,497.45	85.54	53.579	
13,600.00	7,730.00	7,898.07	7,794.78	85.37	32.23	91.35	-159.79	-943.29	4,655.73	4,570.06	85.67	54.346	
13,700.00	7,730.00	7,895.81	7,792.52	86.92	32.23	91.31	-159.84	-943.40	4,729.47	4,643.68	85.79	55.129	
13,800.00	7,730.00	7,893.60	7,790.32	88.47	32.22	91.27	-159.89	-943.50	4,804.15	4,718.25	85.90	55.928	
13,900.00	7,730.00	7,891.45	7,788.17	90.03	32.22	91.23	-159.93	-943.60	4,879.74	4,793.74	86.00	56.742	
14,000.00	7,730.00	7,889.36	7,786.08	91.59	32.21	91.19	-159.98	-943.70	4,956.20	4,870.11	86.09	57.570	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,887.31	7,784.04	93.16	32.21	91.16	-160.02	-943.79	5,033.48	4,947.30	86.17	58.411		
14,200.00	7,730.00	7,885.32	7,782.05	94.74	32.20	91.12	-160.06	-943.88	5,111.54	5,025.29	86.25	59.265		
14,300.00	7,730.00	7,883.38	7,780.11	96.33	32.20	91.09	-160.10	-943.97	5,190.36	5,104.04	86.32	60.131		
14,400.00	7,730.00	7,881.48	7,778.22	97.92	32.19	91.05	-160.14	-944.05	5,269.90	5,183.52	86.38	61.009		
14,500.00	7,730.00	7,879.64	7,776.37	99.51	32.19	91.02	-160.17	-944.14	5,350.12	5,263.68	86.44	61.897		
14,600.00	7,730.00	7,877.83	7,774.57	101.11	32.18	90.99	-160.21	-944.22	5,431.00	5,344.51	86.49	62.796		
14,700.00	7,730.00	7,876.07	7,772.80	102.72	32.18	90.95	-160.24	-944.29	5,512.50	5,425.97	86.53	63.705		
14,800.00	7,730.00	7,874.34	7,771.08	104.33	32.17	90.92	-160.27	-944.37	5,594.61	5,508.03	86.57	64.623		
14,900.00	7,730.00	7,872.66	7,769.40	105.94	32.17	90.89	-160.31	-944.44	5,677.28	5,590.67	86.61	65.550		
15,000.00	7,730.00	7,871.02	7,767.76	107.56	32.16	90.86	-160.34	-944.51	5,760.51	5,673.87	86.64	66.485		
15,100.00	7,730.00	7,869.41	7,766.15	109.18	32.16	90.83	-160.36	-944.58	5,844.26	5,757.59	86.67	67.428		
15,200.00	7,730.00	7,867.84	7,764.58	110.81	32.16	90.81	-160.39	-944.65	5,928.52	5,841.82	86.70	68.379		
15,300.00	7,730.00	7,866.30	7,763.05	112.44	32.15	90.78	-160.42	-944.72	6,013.25	5,926.53	86.72	69.337		
15,400.00	7,730.00	7,864.79	7,761.54	114.08	32.15	90.75	-160.45	-944.78	6,098.45	6,011.71	86.75	70.303		
15,500.00	7,730.00	7,863.32	7,760.07	115.72	32.15	90.72	-160.47	-944.84	6,184.09	6,097.33	86.76	71.274		
15,600.00	7,730.00	7,861.88	7,758.63	117.36	32.14	90.70	-160.50	-944.90	6,270.16	6,183.38	86.78	72.252		
15,700.00	7,730.00	7,860.47	7,757.22	119.00	32.14	90.67	-160.52	-944.96	6,356.63	6,269.84	86.80	73.235		
15,800.00	7,730.00	7,859.09	7,755.84	120.65	32.13	90.65	-160.55	-945.02	6,443.50	6,356.69	86.81	74.225		
15,900.00	7,730.00	7,857.74	7,754.49	122.30	32.13	90.62	-160.57	-945.07	6,530.74	6,443.92	86.82	75.219		
16,000.00	7,730.00	7,856.41	7,753.17	123.96	32.13	90.60	-160.59	-945.13	6,618.34	6,531.51	86.83	76.219		
16,100.00	7,730.00	7,855.11	7,751.87	125.61	32.12	90.58	-160.61	-945.18	6,706.29	6,619.45	86.84	77.223		
16,200.00	7,730.00	7,853.84	7,750.60	127.27	32.12	90.55	-160.63	-945.23	6,794.57	6,707.72	86.85	78.232		
16,300.00	7,730.00	7,852.59	7,749.35	128.94	32.12	90.53	-160.65	-945.28	6,883.17	6,796.31	86.86	79.245		
16,400.00	7,730.00	7,851.37	7,748.13	130.60	32.12	90.51	-160.67	-945.33	6,972.08	6,885.21	86.87	80.262		
16,500.00	7,730.00	7,850.17	7,746.93	132.27	32.11	90.49	-160.69	-945.38	7,061.29	6,974.41	86.87	81.282		
16,600.00	7,730.00	7,848.99	7,745.76	133.94	32.11	90.47	-160.71	-945.43	7,150.78	7,063.90	86.88	82.307		
16,700.00	7,730.00	7,847.84	7,744.60	135.61	32.11	90.44	-160.73	-945.47	7,240.54	7,153.66	86.89	83.335		
16,800.00	7,730.00	7,846.71	7,743.47	137.28	32.10	90.42	-160.74	-945.52	7,330.57	7,243.68	86.89	84.366		
16,900.00	7,730.00	7,845.59	7,742.36	138.96	32.10	90.40	-160.76	-945.56	7,420.86	7,333.96	86.90	85.400		
17,000.00	7,730.00	7,844.50	7,741.27	140.64	32.10	90.38	-160.78	-945.61	7,511.39	7,424.49	86.90	86.437		
17,100.00	7,730.00	7,843.43	7,740.20	142.32	32.10	90.37	-160.79	-945.65	7,602.16	7,515.25	86.91	87.476		
17,200.00	7,730.00	7,842.38	7,739.15	144.00	32.09	90.35	-160.81	-945.69	7,693.16	7,606.24	86.91	88.518		
17,300.00	7,730.00	7,841.35	7,738.12	145.69	32.09	90.33	-160.82	-945.73	7,784.37	7,697.46	86.92	89.563		
17,400.00	7,730.00	7,840.34	7,737.11	147.37	32.09	90.31	-160.84	-945.77	7,875.80	7,788.88	86.92	90.609		
17,500.00	7,730.00	7,839.34	7,736.11	149.06	32.08	90.29	-160.85	-945.81	7,967.44	7,880.52	86.93	91.658		
17,600.00	7,730.00	7,838.36	7,735.13	150.75	32.08	90.27	-160.87	-945.84	8,059.28	7,972.34	86.93	92.709		
17,700.00	7,730.00	7,837.40	7,734.17	152.44	32.08	90.26	-160.88	-945.88	8,151.30	8,064.37	86.94	93.761		
17,800.00	7,730.00	7,836.45	7,733.23	154.13	32.08	90.24	-160.89	-945.92	8,243.52	8,156.57	86.94	94.815		
17,900.00	7,730.00	7,835.52	7,732.30	155.83	32.08	90.22	-160.91	-945.95	8,335.91	8,248.96	86.95	95.871		
18,000.00	7,730.00	7,834.61	7,731.39	157.52	32.07	90.21	-160.92	-945.99	8,428.47	8,341.52	86.96	96.928		
18,100.00	7,730.00	7,833.71	7,730.49	159.22	32.07	90.19	-160.93	-946.02	8,521.21	8,434.24	86.96	97.987		
18,200.00	7,730.00	7,832.83	7,729.61	160.92	32.07	90.17	-160.94	-946.05	8,614.10	8,527.13	86.97	99.046		
18,300.00	7,730.00	7,831.96	7,728.74	162.62	32.07	90.16	-160.96	-946.09	8,707.16	8,620.18	86.98	100.107		
18,400.00	7,730.00	7,831.11	7,727.89	164.32	32.06	90.14	-160.97	-946.12	8,800.36	8,713.38	86.99	101.169		
18,426.22	7,730.00	7,830.89	7,727.67	164.76	32.06	90.14	-160.97	-946.13	8,824.83	8,737.84	86.99	101.447		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-23.32	218.21	-94.08	237.84				
100.00	100.00	88.24	88.24	0.13	0.15	-23.22	218.68	-93.81	237.96	237.68	0.28	852.265 ES	
200.00	200.00	182.11	182.08	0.49	0.39	-22.95	220.46	-93.35	239.54	238.66	0.88	271.526	
300.00	300.00	272.75	272.59	0.85	0.72	-23.01	224.84	-95.47	244.89	243.31	1.58	155.339	
400.00	400.00	364.22	363.66	1.21	1.06	-23.66	231.05	-101.23	253.62	251.36	2.27	111.889	
500.00	500.00	454.93	453.62	1.57	1.42	-24.54	239.39	-109.31	265.67	262.71	2.96	89.745	
600.00	600.00	544.82	542.35	1.93	1.80	-25.45	250.06	-118.99	281.00	277.35	3.65	77.040	
700.00	700.00	632.97	628.86	2.29	2.21	-26.27	263.02	-129.82	299.62	295.29	4.33	69.241	
800.00	800.00	719.91	713.51	2.64	2.64	-27.11	278.26	-142.43	321.81	316.81	5.00	64.365	
900.00	900.00	805.86	796.52	3.00	3.10	-28.06	294.94	-157.21	347.06	341.39	5.67	61.244	
1,000.00	1,000.00	889.43	876.37	3.36	3.58	-28.98	313.37	-173.57	375.82	369.50	6.32	59.447	
1,100.00	1,100.00	980.58	962.82	3.72	4.14	-29.95	334.82	-192.91	406.81	399.80	7.01	58.006	
1,200.00	1,200.00	1,075.30	1,052.69	4.08	4.73	-30.84	356.89	-213.11	437.77	430.02	7.74	56.544	
1,300.00	1,299.98	1,164.71	1,137.23	4.43	5.31	-78.23	378.58	-232.51	469.48	461.05	8.43	55.688	
1,400.00	1,399.84	1,256.20	1,223.54	4.79	5.91	-78.72	401.67	-252.20	501.41	492.28	9.13	54.917	
1,500.00	1,499.45	1,343.60	1,305.80	5.15	6.50	-79.39	424.10	-271.39	533.55	523.74	9.80	54.421	
1,600.00	1,598.70	1,423.13	1,380.09	5.51	7.06	-80.08	445.81	-289.69	567.35	556.92	10.43	54.421	
1,700.00	1,697.47	1,500.29	1,451.47	5.89	7.62	-80.75	468.75	-307.91	603.32	592.28	11.04	54.653	
1,800.00	1,795.62	1,573.79	1,518.72	6.28	8.19	-81.47	491.74	-326.65	641.67	630.02	11.64	55.111	
1,900.00	1,893.06	1,664.11	1,600.74	6.69	8.92	-82.74	520.06	-351.69	681.70	669.28	12.42	54.876	
2,000.00	1,989.64	1,753.26	1,681.97	7.13	9.63	-84.07	547.32	-376.34	721.57	708.34	13.23	54.549	
2,100.00	2,085.27	1,839.58	1,760.58	7.61	10.33	-85.43	573.09	-400.97	762.19	748.14	14.05	54.245	
2,200.00	2,179.82	1,922.78	1,836.32	8.12	11.01	-86.79	597.35	-425.40	803.82	788.92	14.90	53.962	
2,300.00	2,273.17	2,010.21	1,915.82	8.67	11.72	-88.25	623.07	-451.12	846.71	830.88	15.84	53.469	
2,400.00	2,365.21	2,112.87	2,009.69	9.27	12.54	-90.08	653.01	-479.96	889.73	872.76	16.97	52.423	
2,500.00	2,455.84	2,211.90	2,101.08	9.92	13.31	-91.76	681.21	-505.63	932.04	913.91	18.14	51.391	
2,580.62	2,527.80	2,283.47	2,167.33	10.49	13.85	-92.86	701.63	-523.41	966.58	947.53	19.05	50.739	
2,600.00	2,544.97	2,300.12	2,182.75	10.63	13.98	-93.29	706.41	-527.49	974.98	955.71	19.27	50.595	
2,700.00	2,633.58	2,384.36	2,260.81	11.37	14.61	-95.37	730.55	-547.99	1,018.97	998.57	20.41	49.928	
2,800.00	2,722.19	2,468.86	2,339.21	12.13	15.24	-97.34	754.14	-568.91	1,064.07	1,042.51	21.57	49.333	
2,900.00	2,810.80	2,555.26	2,419.50	12.91	15.89	-99.21	778.02	-590.07	1,109.88	1,087.12	22.76	48.763	
3,000.00	2,899.41	2,637.53	2,495.92	13.71	16.50	-100.85	801.09	-609.98	1,156.54	1,132.61	23.93	48.340	
3,100.00	2,988.02	2,720.21	2,572.71	14.52	17.12	-102.38	824.22	-630.04	1,204.00	1,178.90	25.10	47.967	
3,200.00	3,076.63	2,803.18	2,649.87	15.34	17.74	-103.84	847.01	-650.38	1,252.18	1,225.90	26.28	47.645	
3,300.00	3,165.24	2,892.23	2,732.81	16.16	18.39	-105.32	870.92	-672.23	1,300.80	1,273.29	27.52	47.269	
3,400.00	3,253.85	2,980.55	2,815.29	17.00	19.03	-106.71	894.07	-693.71	1,349.64	1,320.89	28.75	46.947	
3,500.00	3,342.46	3,060.21	2,889.79	17.84	19.61	-107.90	914.51	-713.14	1,398.91	1,369.02	29.89	46.803	
3,600.00	3,431.07	3,134.81	2,959.46	18.69	20.16	-108.95	933.80	-731.58	1,449.02	1,418.03	30.98	46.770	
3,700.00	3,519.68	3,213.29	3,032.36	19.55	20.74	-109.93	955.46	-750.95	1,500.03	1,467.92	32.12	46.707	
3,800.00	3,608.29	3,296.49	3,109.55	20.40	21.37	-110.88	979.01	-771.18	1,551.31	1,518.00	33.30	46.581	
3,900.00	3,696.90	3,365.60	3,173.60	21.26	21.89	-111.63	998.46	-788.38	1,603.35	1,569.00	34.34	46.690	
4,000.00	3,785.51	3,458.64	3,259.85	22.13	22.59	-112.61	1,024.33	-811.77	1,655.79	1,620.16	35.63	46.473	
4,100.00	3,874.12	3,545.07	3,340.14	23.00	23.24	-113.46	1,048.10	-833.16	1,708.10	1,671.26	36.84	46.362	
4,200.00	3,962.73	3,631.74	3,420.79	23.87	23.88	-114.28	1,071.60	-854.53	1,760.49	1,722.44	38.05	46.262	
4,300.00	4,051.34	3,722.90	3,505.77	24.74	24.55	-115.10	1,095.92	-876.81	1,812.85	1,773.54	39.31	46.118	
4,400.00	4,139.95	3,852.83	3,627.63	25.62	25.47	-116.21	1,129.69	-906.65	1,863.97	1,823.01	40.96	45.511	
4,500.00	4,228.56	3,912.27	3,683.42	26.49	25.89	-116.68	1,145.26	-920.00	1,914.98	1,873.11	41.87	45.733	
4,600.00	4,317.17	3,965.78	3,733.36	27.37	26.29	-117.07	1,159.76	-932.60	1,967.32	1,924.60	42.72	46.052	
4,700.00	4,405.78	4,023.00	3,786.44	28.25	26.71	-117.48	1,175.56	-947.00	2,021.18	1,977.58	43.60	46.361	
4,800.00	4,494.39	4,071.35	3,831.10	29.13	27.09	-117.82	1,188.91	-959.84	2,076.35	2,031.99	44.36	46.804	
4,900.00	4,583.00	4,128.51	3,883.79	30.02	27.53	-118.21	1,204.34	-975.73	2,132.68	2,087.46	45.22	47.162	
5,000.00	4,671.61	4,194.54	3,944.47	30.90	28.06	-118.65	1,222.31	-994.60	2,189.83	2,143.65	46.18	47.420	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,100.00	4,036.24	31.79	35.22	-119.27	1,249.76	-1,022.67	2,246.73	2,194.46	52.27	42.984		
5,200.00	4,848.83	4,360.33	4,097.01	32.67	29.37	-119.67	1,267.60	-1,041.09	2,303.62	2,255.12	48.50	47.495		
5,300.00	4,937.44	4,411.79	4,144.28	33.56	29.78	-119.98	1,281.17	-1,056.26	2,361.74	2,312.47	49.27	47.931		
5,400.00	5,026.05	4,477.80	4,204.62	34.45	30.32	-120.36	1,299.08	-1,076.13	2,420.62	2,370.39	50.22	48.197		
5,500.00	5,114.66	4,678.66	4,389.34	35.34	31.91	-121.39	1,353.90	-1,132.78	2,478.31	2,425.50	52.81	46.925		
5,600.00	5,203.27	4,773.57	4,477.09	36.23	32.63	-121.80	1,381.01	-1,156.68	2,533.44	2,479.31	54.12	46.807		
5,700.00	5,291.88	4,823.42	4,523.10	37.12	33.03	-122.01	1,395.38	-1,169.42	2,588.96	2,534.05	54.91	47.153		
5,800.00	5,380.50	4,864.00	4,560.35	38.01	33.34	-122.16	1,407.39	-1,180.15	2,645.54	2,589.97	55.56	47.614		
5,900.00	5,469.11	4,922.15	4,613.55	38.90	33.82	-122.38	1,424.51	-1,196.22	2,703.09	2,646.66	56.43	47.902		
6,000.00	5,557.72	5,139.13	4,814.26	39.79	35.48	-123.28	1,483.03	-1,254.06	2,760.04	2,700.87	59.17	46.643		
6,100.00	5,646.33	5,336.10	4,999.87	40.68	36.84	-124.13	1,531.29	-1,298.88	2,813.50	2,752.00	61.50	45.747		
6,200.00	5,734.94	5,696.75	5,350.30	41.58	38.71	-126.07	1,592.79	-1,355.93	2,858.27	2,793.48	64.79	44.116		
6,300.00	5,823.55	6,300.00	5,518.64	42.47	40.98	-127.11	1,611.20	-1,373.94	2,899.45	2,831.67	67.77	42.781		
6,400.00	5,912.16	6,031.27	5,681.85	43.36	39.92	-128.18	1,623.48	-1,387.03	2,938.25	2,870.63	67.62	43.453		
6,500.00	6,000.77	6,201.05	5,851.16	44.26	40.39	-129.33	1,630.65	-1,397.08	2,975.65	2,906.79	68.86	43.211		
6,600.00	6,089.38	6,395.98	6,045.98	45.15	40.80	-130.73	1,631.62	-1,402.85	3,010.63	2,940.59	70.05	42.981		
6,700.00	6,177.99	6,497.75	6,147.75	46.05	40.98	-131.45	1,631.53	-1,403.41	3,043.69	2,972.76	70.93	42.913		
6,800.00	6,266.60	6,564.68	6,214.68	46.94	41.12	-131.90	1,631.91	-1,404.09	3,077.57	3,005.85	71.71	42.914		
6,900.00	6,355.21	6,634.97	6,284.95	47.84	41.26	-132.37	1,632.57	-1,405.23	3,112.33	3,039.83	72.50	42.927		
7,000.00	6,443.82	7,000.00	6,440.25	48.74	41.99	-133.37	1,633.82	-1,406.83	3,146.99	3,073.00	73.99	42.531 SF		
7,100.00	6,532.43	6,913.04	6,562.98	49.63	41.81	-134.15	1,634.38	-1,405.44	3,179.80	3,105.37	74.42	42.727		
7,200.00	6,621.04	6,985.28	6,635.22	50.53	41.94	-134.61	1,634.38	-1,404.71	3,213.14	3,137.96	75.18	42.738		
7,300.00	6,709.65	7,054.33	6,704.27	51.42	42.07	-135.04	1,634.08	-1,404.38	3,247.28	3,171.36	75.92	42.772		
7,400.00	6,798.26	7,121.57	6,771.51	52.32	42.19	-135.46	1,633.61	-1,404.49	3,282.29	3,205.65	76.64	42.827		
7,500.00	6,886.87	7,191.35	6,841.28	53.22	42.32	-135.89	1,633.19	-1,405.03	3,318.12	3,240.76	77.36	42.894		
7,600.00	6,975.48	7,261.61	6,911.54	54.12	42.47	-136.31	1,632.88	-1,405.96	3,354.71	3,276.64	78.07	42.972		
7,656.30	7,025.36	7,301.11	6,951.03	54.62	42.55	-136.54	1,632.67	-1,406.64	3,375.63	3,297.17	78.46	43.022		
7,700.00	7,064.54	7,332.09	6,982.00	55.00	42.61	-145.63	1,632.49	-1,407.26	3,392.11	3,313.36	78.75	43.073		
7,750.00	7,110.29	7,368.20	7,018.10	55.40	42.69	-157.87	1,632.27	-1,408.07	3,411.23	3,332.19	79.05	43.155		
7,800.00	7,156.67	7,417.67	7,067.56	55.75	42.79	-171.93	1,631.94	-1,409.27	3,430.44	3,351.10	79.34	43.236		
7,850.00	7,203.34	7,486.94	7,136.81	56.05	42.93	173.08	1,631.31	-1,410.60	3,449.24	3,369.58	79.66	43.300		
7,900.00	7,249.95	7,523.51	7,173.38	56.30	43.00	158.46	1,630.89	-1,411.24	3,467.65	3,387.83	79.82	43.442		
7,950.00	7,296.14	7,561.50	7,211.35	56.50	43.08	145.38	1,630.39	-1,411.98	3,485.72	3,405.77	79.95	43.599		
8,000.00	7,341.56	7,577.00	7,226.85	56.64	43.11	134.27	1,630.16	-1,412.30	3,503.42	3,423.46	79.96	43.815		
8,050.00	7,385.86	7,616.61	7,266.44	56.74	43.20	125.31	1,629.79	-1,413.34	3,520.59	3,440.56	80.03	43.991		
8,100.00	7,428.71	7,640.25	7,290.07	56.79	43.26	117.97	1,629.78	-1,414.14	3,537.33	3,457.32	80.01	44.212		
8,150.00	7,469.77	7,977.48	7,627.01	56.80	43.93	114.85	1,626.67	-1,412.78	3,552.26	3,471.36	80.90	43.911		
8,200.00	7,508.75	8,009.36	7,658.85	56.77	43.99	110.39	1,626.25	-1,411.29	3,564.23	3,483.37	80.86	44.078		
8,250.00	7,545.33	8,039.17	7,688.64	56.70	44.04	106.74	1,625.94	-1,409.98	3,575.59	3,494.80	80.80	44.254		
8,300.00	7,579.25	8,067.12	7,716.57	56.59	44.09	103.75	1,625.70	-1,408.80	3,586.34	3,505.63	80.71	44.435		
8,350.00	7,610.24	8,092.69	7,742.11	56.45	44.14	101.26	1,625.51	-1,407.77	3,596.45	3,515.85	80.60	44.621		
8,400.00	7,638.06	8,115.57	7,764.98	56.28	44.18	99.19	1,625.38	-1,406.88	3,605.93	3,525.46	80.47	44.812		
8,450.00	7,662.52	8,135.62	7,785.01	56.09	44.21	97.46	1,625.29	-1,406.13	3,614.76	3,534.44	80.32	45.006		
8,500.00	7,683.41	8,155.04	7,804.41	55.88	44.25	96.04	1,625.22	-1,405.43	3,622.94	3,542.79	80.16	45.198		
8,550.00	7,700.59	8,171.20	7,820.57	55.64	44.28	94.85	1,625.19	-1,404.85	3,630.47	3,550.48	79.98	45.390		
8,600.00	7,713.91	8,183.66	7,833.02	55.39	44.31	93.87	1,625.19	-1,404.40	3,637.33	3,557.53	79.80	45.583		
8,650.00	7,723.29	8,192.35	7,841.70	55.14	44.32	93.06	1,625.19	-1,404.10	3,643.52	3,563.93	79.60	45.774		
8,700.00	7,728.64	8,197.25	7,846.60	54.87	44.33	92.42	1,625.19	-1,403.92	3,649.03	3,569.64	79.39	45.963		
8,740.83	7,730.00	8,198.45	7,847.80	54.65	44.33	92.01	1,625.20	-1,403.88	3,653.01	3,573.80	79.21	46.115		
8,800.00	7,730.00	8,198.37	7,847.72	54.33	44.33	92.01	1,625.20	-1,403.88	3,658.90	3,579.94	78.96	46.338		
8,900.00	7,730.00	8,198.24	7,847.59	53.82	44.33	92.01	1,625.20	-1,403.89	3,671.01	3,592.46	78.55	46.735		
9,000.00	7,730.00	8,198.12	7,847.46	53.33	44.33	92.01	1,625.20	-1,403.89	3,685.78	3,607.62	78.16	47.155		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	8,197.99	7,847.34	52.87	44.33	92.01	1,625.19	-1,403.90	3,703.20	3,625.40	77.80	47.600		
9,200.00	7,730.00	8,197.86	7,847.21	52.44	44.33	92.00	1,625.19	-1,403.90	3,723.23	3,645.77	77.46	48.066		
9,300.00	7,730.00	8,197.74	7,847.09	52.03	44.33	92.00	1,625.19	-1,403.91	3,745.82	3,668.67	77.15	48.554		
9,400.00	7,730.00	8,197.62	7,846.97	51.65	44.33	92.00	1,625.19	-1,403.91	3,770.92	3,694.06	76.86	49.062		
9,500.00	7,730.00	8,197.50	7,846.85	51.29	44.33	92.00	1,625.19	-1,403.91	3,798.50	3,721.90	76.60	49.589		
9,600.00	7,730.00	8,197.39	7,846.74	50.95	44.33	92.00	1,625.19	-1,403.92	3,828.48	3,752.12	76.37	50.133		
9,700.00	7,730.00	8,197.27	7,846.62	50.64	44.33	91.99	1,625.19	-1,403.92	3,860.83	3,784.67	76.16	50.694		
9,800.00	7,730.00	8,197.16	7,846.51	50.35	44.33	91.99	1,625.19	-1,403.93	3,895.47	3,819.50	75.98	51.271		
9,900.00	7,730.00	8,197.05	7,846.40	50.09	44.33	91.99	1,625.19	-1,403.93	3,932.36	3,856.54	75.82	51.863		
10,000.00	7,730.00	8,196.94	7,846.29	49.86	44.33	91.99	1,625.19	-1,403.93	3,971.42	3,895.73	75.69	52.469		
10,100.00	7,730.00	8,196.83	7,846.18	49.65	44.33	91.99	1,625.19	-1,403.94	4,012.59	3,937.00	75.58	53.088		
10,200.00	7,730.00	8,196.72	7,846.07	49.48	44.33	91.99	1,625.19	-1,403.94	4,055.81	3,980.31	75.50	53.719		
10,300.00	7,730.00	8,196.61	7,845.96	49.35	44.33	91.98	1,625.19	-1,403.95	4,101.01	4,025.57	75.44	54.362		
10,400.00	7,730.00	8,196.51	7,845.86	49.27	44.33	91.98	1,625.19	-1,403.95	4,148.13	4,072.73	75.40	55.016		
10,500.00	7,730.00	8,196.41	7,845.76	49.26	44.33	91.98	1,625.19	-1,403.95	4,197.11	4,121.73	75.38	55.680		
10,600.00	7,730.00	8,196.31	7,845.66	49.32	44.33	91.98	1,625.19	-1,403.96	4,247.87	4,172.50	75.38	56.354		
10,700.00	7,730.00	8,196.21	7,845.56	49.51	44.33	91.98	1,625.19	-1,403.96	4,300.37	4,224.97	75.39	57.038		
10,800.00	7,730.00	8,196.11	7,845.46	49.83	44.33	91.98	1,625.19	-1,403.96	4,354.52	4,279.09	75.43	57.731		
10,900.00	7,730.00	8,196.01	7,845.36	50.31	44.33	91.97	1,625.19	-1,403.97	4,410.28	4,334.80	75.48	58.432		
11,000.00	7,730.00	8,195.92	7,845.27	50.96	44.33	91.97	1,625.19	-1,403.97	4,467.58	4,392.04	75.54	59.141		
11,100.00	7,730.00	8,195.82	7,845.17	51.75	44.33	91.97	1,625.19	-1,403.97	4,526.37	4,450.75	75.62	59.859		
11,200.00	7,730.00	8,195.73	7,845.08	52.66	44.33	91.97	1,625.19	-1,403.98	4,586.58	4,510.87	75.71	60.584		
11,300.00	7,730.00	8,195.64	7,844.99	53.67	44.33	91.97	1,625.19	-1,403.98	4,648.16	4,572.36	75.81	61.317		
11,400.00	7,730.00	8,195.55	7,844.90	54.75	44.33	91.97	1,625.19	-1,403.98	4,711.07	4,635.15	75.92	62.057		
11,500.00	7,730.00	8,195.46	7,844.81	55.89	44.33	91.97	1,625.19	-1,403.99	4,775.23	4,699.20	76.03	62.804		
11,600.00	7,730.00	8,195.37	7,844.72	57.07	44.33	91.96	1,625.19	-1,403.99	4,840.62	4,764.46	76.16	63.557		
11,700.00	7,730.00	8,195.28	7,844.63	58.30	44.33	91.96	1,625.19	-1,403.99	4,907.17	4,830.87	76.30	64.318		
11,800.00	7,730.00	8,195.20	7,844.55	59.55	44.33	91.96	1,625.19	-1,404.00	4,974.84	4,898.40	76.44	65.085		
11,900.00	7,730.00	8,195.11	7,844.46	60.84	44.33	91.96	1,625.19	-1,404.00	5,043.58	4,967.00	76.58	65.858		
12,000.00	7,730.00	8,195.03	7,844.38	62.15	44.33	91.96	1,625.19	-1,404.00	5,113.36	5,036.62	76.73	66.638		
12,100.00	7,730.00	8,194.95	7,844.30	63.49	44.33	91.96	1,625.19	-1,404.00	5,184.12	5,107.24	76.89	67.423		
12,200.00	7,730.00	8,194.86	7,844.21	64.85	44.33	91.96	1,625.19	-1,404.01	5,255.84	5,178.79	77.05	68.215		
12,300.00	7,730.00	8,194.78	7,844.13	66.22	44.33	91.96	1,625.19	-1,404.01	5,328.47	5,251.26	77.21	69.012		
12,400.00	7,730.00	8,194.70	7,844.05	67.62	44.33	91.95	1,625.19	-1,404.01	5,401.97	5,324.60	77.38	69.815		
12,500.00	7,730.00	8,194.62	7,843.98	69.03	44.33	91.95	1,625.19	-1,404.02	5,476.31	5,398.77	77.54	70.623		
12,600.00	7,730.00	8,194.55	7,843.90	70.45	44.33	91.95	1,625.19	-1,404.02	5,551.46	5,473.75	77.71	71.437		
12,700.00	7,730.00	8,194.47	7,843.82	71.90	44.33	91.95	1,625.19	-1,404.02	5,627.38	5,549.50	77.88	72.256		
12,800.00	7,730.00	8,194.39	7,843.75	73.35	44.33	91.95	1,625.19	-1,404.02	5,704.05	5,625.99	78.05	73.081		
12,900.00	7,730.00	8,194.32	7,843.67	74.81	44.33	91.95	1,625.19	-1,404.03	5,781.42	5,703.20	78.22	73.910		
13,000.00	7,730.00	8,194.25	7,843.60	76.29	44.33	91.95	1,625.19	-1,404.03	5,859.49	5,781.09	78.39	74.744		
13,100.00	7,730.00	8,194.17	7,843.52	77.78	44.33	91.95	1,625.19	-1,404.03	5,938.21	5,859.64	78.57	75.583		
13,200.00	7,730.00	8,194.10	7,843.45	79.28	44.33	91.94	1,625.19	-1,404.03	6,017.56	5,938.82	78.74	76.426		
13,300.00	7,730.00	8,194.03	7,843.38	80.79	44.33	91.94	1,625.19	-1,404.04	6,097.52	6,018.61	78.91	77.274		
13,400.00	7,730.00	8,193.96	7,843.31	82.31	44.33	91.94	1,625.19	-1,404.04	6,178.06	6,098.98	79.08	78.126		
13,500.00	7,730.00	8,193.89	7,843.24	83.84	44.33	91.94	1,625.19	-1,404.04	6,259.16	6,179.92	79.25	78.983		
13,600.00	7,730.00	8,193.82	7,843.17	85.37	44.33	91.94	1,625.19	-1,404.04	6,340.81	6,261.39	79.42	79.843		
13,700.00	7,730.00	8,193.75	7,843.10	86.92	44.33	91.94	1,625.19	-1,404.05	6,422.97	6,343.39	79.58	80.708		
13,800.00	7,730.00	8,193.68	7,843.04	88.47	44.33	91.94	1,625.19	-1,404.05	6,505.63	6,425.89	79.75	81.576		
13,900.00	7,730.00	8,193.62	7,842.97	90.03	44.33	91.94	1,625.19	-1,404.05	6,588.78	6,508.86	79.91	82.448		
14,000.00	7,730.00	8,193.55	7,842.90	91.59	44.33	91.94	1,625.19	-1,404.05	6,672.38	6,592.31	80.08	83.323		
14,100.00	7,730.00	8,193.49	7,842.84	93.16	44.33	91.94	1,625.19	-1,404.06	6,756.44	6,676.20	80.24	84.203		
14,200.00	7,730.00	8,193.42	7,842.77	94.74	44.32	91.93	1,625.19	-1,404.06	6,840.92	6,760.52	80.40	85.085		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	8,193.36	7,842.71	96.33	44.32	91.93	1,625.19	-1,404.06	6,925.81	6,845.25	80.56	85.970		
14,400.00	7,730.00	8,193.30	7,842.65	97.92	44.32	91.93	1,625.19	-1,404.06	7,011.10	6,930.38	80.72	86.859		
14,500.00	7,730.00	8,193.23	7,842.59	99.51	44.32	91.93	1,625.19	-1,404.07	7,096.78	7,015.91	80.87	87.751		
14,600.00	7,730.00	8,193.17	7,842.52	101.11	44.32	91.93	1,625.19	-1,404.07	7,182.83	7,101.80	81.03	88.645		
14,700.00	7,730.00	8,193.11	7,842.46	102.72	44.32	91.93	1,625.19	-1,404.07	7,269.23	7,188.05	81.18	89.542		
14,800.00	7,730.00	8,193.05	7,842.40	104.33	44.32	91.93	1,625.19	-1,404.07	7,355.98	7,274.65	81.33	90.442		
14,900.00	7,730.00	8,192.99	7,842.34	105.94	44.32	91.93	1,625.19	-1,404.07	7,443.06	7,361.58	81.48	91.345		
15,000.00	7,730.00	8,192.93	7,842.28	107.56	44.32	91.93	1,625.19	-1,404.08	7,530.46	7,448.83	81.63	92.249		
15,100.00	7,730.00	8,192.87	7,842.23	109.18	44.32	91.93	1,625.19	-1,404.08	7,618.17	7,536.39	81.78	93.157		
15,200.00	7,730.00	8,192.82	7,842.17	110.81	44.32	91.92	1,625.19	-1,404.08	7,706.18	7,624.26	81.92	94.066		
15,300.00	7,730.00	8,192.76	7,842.11	112.44	44.32	91.92	1,625.19	-1,404.08	7,794.48	7,712.42	82.07	94.978		
15,400.00	7,730.00	8,192.70	7,842.05	114.08	44.32	91.92	1,625.19	-1,404.08	7,883.06	7,800.86	82.21	95.891		
15,500.00	7,730.00	8,192.65	7,842.00	115.72	44.32	91.92	1,625.19	-1,404.09	7,971.91	7,889.57	82.35	96.807		
15,600.00	7,730.00	8,192.59	7,841.94	117.36	44.32	91.92	1,625.19	-1,404.09	8,061.03	7,978.54	82.49	97.724		
15,700.00	7,730.00	8,192.54	7,841.89	119.00	44.32	91.92	1,625.19	-1,404.09	8,150.39	8,067.76	82.63	98.643		
15,800.00	7,730.00	8,192.48	7,841.83	120.65	44.32	91.92	1,625.19	-1,404.09	8,240.00	8,157.24	82.76	99.564		
15,900.00	7,730.00	8,192.43	7,841.78	122.30	44.32	91.92	1,625.19	-1,404.09	8,329.84	8,246.95	82.90	100.486		
16,000.00	7,730.00	8,192.38	7,841.73	123.96	44.32	91.92	1,625.19	-1,404.10	8,419.92	8,336.89	83.03	101.410		
16,100.00	7,730.00	8,192.32	7,841.68	125.61	44.32	91.92	1,625.19	-1,404.10	8,510.21	8,427.05	83.16	102.335		
16,200.00	7,730.00	8,192.27	7,841.62	127.27	44.32	91.92	1,625.19	-1,404.10	8,600.72	8,517.43	83.29	103.261		
16,300.00	7,730.00	8,192.22	7,841.57	128.94	44.32	91.92	1,625.19	-1,404.10	8,691.44	8,608.02	83.42	104.189		
16,400.00	7,730.00	8,192.17	7,841.52	130.60	44.32	91.91	1,625.19	-1,404.10	8,782.36	8,698.81	83.55	105.118		
16,500.00	7,730.00	8,192.12	7,841.47	132.27	44.32	91.91	1,625.19	-1,404.10	8,873.47	8,789.80	83.67	106.048		
16,600.00	7,730.00	8,192.07	7,841.42	133.94	44.32	91.91	1,625.19	-1,404.11	8,964.78	8,880.98	83.80	106.979		
16,700.00	7,730.00	8,192.02	7,841.37	135.61	44.32	91.91	1,625.19	-1,404.11	9,056.27	8,972.34	83.92	107.911		
16,800.00	7,730.00	8,191.97	7,841.32	137.28	44.32	91.91	1,625.19	-1,404.11	9,147.93	9,063.89	84.05	108.844		
16,900.00	7,730.00	8,191.92	7,841.27	138.96	44.32	91.91	1,625.19	-1,404.11	9,239.77	9,155.60	84.17	109.777		
17,000.00	7,730.00	8,191.87	7,841.23	140.64	44.32	91.91	1,625.19	-1,404.11	9,331.78	9,247.49	84.29	110.712		
17,100.00	7,730.00	8,191.83	7,841.18	142.32	44.32	91.91	1,625.19	-1,404.11	9,423.95	9,339.54	84.41	111.647		
17,200.00	7,730.00	8,191.78	7,841.13	144.00	44.32	91.91	1,625.19	-1,404.12	9,516.28	9,431.75	84.53	112.583		
17,300.00	7,730.00	8,191.73	7,841.08	145.69	44.32	91.91	1,625.19	-1,404.12	9,608.76	9,524.11	84.64	113.519		
17,400.00	7,730.00	8,191.69	7,841.04	147.37	44.32	91.91	1,625.19	-1,404.12	9,701.39	9,616.63	84.76	114.456		
17,500.00	7,730.00	8,191.64	7,840.99	149.06	44.32	91.91	1,625.19	-1,404.12	9,794.17	9,709.29	84.88	115.393		
17,600.00	7,730.00	8,191.59	7,840.95	150.75	44.32	91.91	1,625.19	-1,404.12	9,887.08	9,802.09	84.99	116.330		
17,700.00	7,730.00	8,191.55	7,840.90	152.44	44.32	91.90	1,625.19	-1,404.12	9,980.14	9,895.03	85.11	117.268		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-18.85	218.21	-74.48	230.79					
100.00	100.00	89.25	89.25	0.13	0.14	-18.84	218.36	-74.49	230.72	230.44	0.28	825.306 CC, ES		
200.00	200.00	187.10	187.10	0.49	0.40	-18.71	219.12	-74.23	231.37	230.47	0.89	258.927		
300.00	300.00	282.29	282.22	0.85	0.75	-18.02	221.96	-72.21	233.54	231.94	1.60	146.176		
400.00	400.00	377.59	377.29	1.21	1.10	-16.82	227.47	-68.75	237.98	235.67	2.31	103.182		
500.00	500.00	471.45	470.63	1.57	1.45	-14.98	235.41	-62.98	244.46	241.44	3.02	81.003		
600.00	600.00	562.75	560.95	1.93	1.83	-12.66	246.28	-55.31	254.08	250.35	3.73	68.101		
700.00	700.00	652.21	648.95	2.29	2.22	-10.24	260.06	-46.99	267.44	263.00	4.44	60.258		
800.00	800.00	744.88	739.59	2.64	2.64	-7.83	277.16	-38.11	284.28	279.12	5.16	55.120		
900.00	900.00	836.88	829.30	3.00	3.08	-5.63	295.44	-29.14	303.02	297.15	5.87	51.622		
1,000.00	1,000.00	927.89	917.69	3.36	3.54	-3.76	315.41	-20.75	324.26	317.69	6.58	49.313		
1,100.00	1,100.00	1,024.45	1,011.25	3.72	4.03	-2.11	337.80	-12.42	347.08	339.78	7.30	47.558		
1,200.00	1,200.00	1,122.77	1,106.66	4.08	4.54	-0.64	360.05	-4.03	369.60	361.56	8.04	45.963		
1,300.00	1,299.98	1,223.61	1,204.50	4.43	5.06	-46.17	382.47	5.55	390.77	381.97	8.80	44.430		
1,400.00	1,399.84	1,330.09	1,308.22	4.79	5.60	-45.18	404.58	15.08	408.20	398.62	9.58	42.598		
1,500.00	1,499.45	1,418.77	1,394.65	5.15	6.05	-44.77	422.97	22.55	423.20	412.93	10.27	41.227		
1,600.00	1,598.70	1,513.05	1,486.05	5.51	6.55	-44.60	444.41	31.17	437.78	426.78	11.00	39.810		
1,700.00	1,697.47	1,604.87	1,574.65	5.89	7.06	-44.51	466.25	41.33	451.07	439.34	11.73	38.457		
1,800.00	1,795.62	1,708.73	1,674.60	6.28	7.64	-44.61	491.47	54.10	462.47	449.90	12.57	36.785		
1,900.00	1,893.06	1,814.32	1,776.52	6.69	8.22	-45.08	515.82	67.00	470.16	456.71	13.45	34.956		
2,000.00	1,989.64	1,928.32	1,887.20	7.13	8.82	-46.07	539.63	80.31	473.23	458.82	14.41	32.846		
2,100.00	2,085.27	2,041.96	1,998.36	7.61	9.38	-47.64	560.08	92.11	471.12	455.74	15.38	30.631		
2,200.00	2,179.82	2,147.37	2,102.17	8.12	9.86	-49.86	576.33	100.51	464.47	448.12	16.35	28.414		
2,300.00	2,273.17	2,245.06	2,198.33	8.67	10.31	-52.20	590.98	109.53	455.76	438.43	17.33	26.299		
2,400.00	2,365.21	2,335.36	2,287.05	9.27	10.73	-54.69	605.21	118.48	446.43	428.08	18.36	24.321		
2,500.00	2,455.84	2,426.98	2,376.71	9.92	11.18	-57.53	621.34	128.23	437.83	418.35	19.48	22.477		
2,580.62	2,527.80	2,504.56	2,452.55	10.49	11.56	-60.27	635.45	136.46	430.94	410.46	20.49	21.036		
2,600.00	2,544.97	2,523.60	2,471.17	10.63	11.66	-60.96	638.88	138.48	429.27	408.53	20.74	20.697		
2,700.00	2,633.58	2,615.92	2,561.40	11.37	12.12	-64.34	655.69	148.36	421.81	399.75	22.06	19.123		
2,800.00	2,722.19	2,708.42	2,651.62	12.13	12.59	-67.78	673.62	158.14	417.22	393.79	23.43	17.804		
2,900.00	2,810.80	2,823.80	2,764.36	12.91	13.16	-72.18	694.60	170.75	413.36	388.37	24.99	16.542		
3,000.00	2,899.41	2,918.17	2,856.81	13.71	13.62	-75.80	709.26	182.76	408.14	381.69	26.45	15.431		
3,100.00	2,988.02	3,010.35	2,946.92	14.52	14.07	-79.31	724.68	194.55	405.72	377.81	27.91	14.536		
3,179.49	3,058.45	3,088.27	3,022.87	15.17	14.47	-82.17	738.49	205.10	405.38	376.28	29.10	13.930		
3,200.00	3,076.63	3,108.73	3,042.75	15.34	14.57	-82.88	742.25	208.17	405.40	375.99	29.41	13.786		
3,300.00	3,165.24	3,197.71	3,129.12	16.16	15.04	-85.93	759.23	221.15	407.16	376.32	30.84	13.204		
3,400.00	3,253.85	3,297.99	3,226.81	17.00	15.56	-89.56	777.86	233.97	411.19	378.90	32.30	12.732		
3,500.00	3,342.46	3,390.62	3,317.25	17.84	16.02	-92.95	794.37	245.31	416.71	383.05	33.66	12.380		
3,600.00	3,431.07	3,476.26	3,400.63	18.69	16.47	-95.90	811.19	255.26	425.45	390.53	34.92	12.183		
3,700.00	3,519.68	3,583.35	3,504.89	19.55	17.02	-99.43	832.49	267.28	436.13	399.83	36.29	12.016		
3,800.00	3,608.29	3,675.98	3,594.93	20.40	17.51	-102.26	850.86	278.94	446.97	409.45	37.52	11.913		
3,900.00	3,696.90	3,778.32	3,694.30	21.26	18.05	-105.18	871.39	292.21	458.80	420.03	38.77	11.833		
4,000.00	3,785.51	3,868.13	3,781.63	22.13	18.52	-107.67	889.13	303.39	471.96	432.09	39.88	11.836		
4,100.00	3,874.12	3,970.81	3,880.84	23.00	19.08	-110.08	911.59	317.26	486.09	445.01	41.08	11.832 SF		
4,200.00	3,962.73	4,053.60	3,960.99	23.87	19.53	-111.97	929.63	327.46	501.95	459.87	42.08	11.928		
4,300.00	4,051.34	4,150.95	4,055.65	24.74	20.04	-114.23	949.84	337.86	519.67	476.54	43.14	12.047		
4,400.00	4,139.95	4,242.36	4,144.68	25.62	20.52	-116.29	968.42	347.15	538.51	494.42	44.09	12.214		
4,500.00	4,228.56	4,348.35	4,248.26	26.49	21.04	-118.69	988.15	357.83	557.68	512.58	45.11	12.364		
4,600.00	4,317.17	4,451.82	4,349.60	27.37	21.55	-121.04	1,005.25	369.77	575.73	529.71	46.02	12.511		
4,700.00	4,405.78	4,538.02	4,434.20	28.25	21.95	-122.96	1,018.91	379.13	595.10	548.35	46.75	12.729		
4,800.00	4,494.39	4,622.30	4,517.28	29.13	22.33	-124.88	1,030.93	386.54	616.94	569.56	47.38	13.020		
4,900.00	4,583.00	4,708.47	4,602.68	30.02	22.68	-126.97	1,040.79	392.45	641.07	593.16	47.92	13.379		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,789.48	4,683.27	30.90	22.98	-129.02	1,047.81	396.48	667.65	619.36	48.29	13.825		
5,100.00	4,760.22	4,872.06	4,765.64	31.79	23.26	-131.13	1,053.17	399.11	696.81	648.21	48.60	14.337		
5,200.00	4,848.83	4,955.90	4,849.38	32.67	23.52	-133.28	1,056.79	400.74	728.14	679.29	48.85	14.905		
5,300.00	4,937.44	5,043.52	4,936.98	33.56	23.77	-135.51	1,058.47	401.81	761.26	712.18	49.08	15.510		
5,400.00	5,026.05	5,131.74	5,025.18	34.45	24.01	-137.64	1,059.54	402.88	795.53	746.23	49.31	16.134		
5,500.00	5,114.66	5,211.33	5,104.77	35.34	24.21	-139.49	1,059.53	403.52	831.30	781.85	49.44	16.814		
5,600.00	5,203.27	5,285.98	5,179.41	36.23	24.40	-141.06	1,059.99	402.76	869.50	819.95	49.55	17.547		
5,700.00	5,291.88	5,372.13	5,265.55	37.12	24.63	-142.72	1,060.85	401.13	909.22	859.40	49.82	18.249		
5,800.00	5,380.50	5,464.09	5,357.48	38.01	24.87	-144.35	1,061.79	399.49	949.51	899.33	50.19	18.920		
5,900.00	5,469.11	5,554.10	5,447.49	38.90	25.10	-145.83	1,062.45	398.18	990.15	939.61	50.54	19.590		
6,000.00	5,557.72	5,634.15	5,527.53	39.79	25.31	-147.08	1,062.63	396.84	1,031.61	980.80	50.81	20.303		
6,100.00	5,646.33	5,724.51	5,617.86	40.68	25.54	-148.40	1,062.63	395.08	1,073.84	1,022.64	51.21	20.971		
6,200.00	5,734.94	5,812.30	5,705.64	41.58	25.76	-149.58	1,062.77	393.50	1,116.34	1,064.74	51.60	21.633		
6,300.00	5,823.55	5,911.31	5,804.64	42.47	26.03	-150.81	1,063.18	391.99	1,158.94	1,106.79	52.15	22.224		
6,400.00	5,912.16	5,991.89	5,885.21	43.36	26.24	-151.73	1,063.61	391.06	1,201.53	1,149.01	52.52	22.878		
6,500.00	6,000.77	6,084.36	5,977.67	44.26	26.49	-152.74	1,063.84	389.58	1,244.87	1,191.84	53.03	23.475		
6,600.00	6,089.38	6,178.29	6,071.59	45.15	26.75	-153.70	1,064.00	388.78	1,287.88	1,234.31	53.57	24.043		
6,700.00	6,177.99	6,259.99	6,153.29	46.05	26.97	-154.48	1,064.20	388.07	1,331.14	1,277.15	53.99	24.654		
6,800.00	6,266.60	6,345.89	6,239.18	46.94	27.21	-155.25	1,064.45	386.74	1,375.17	1,320.69	54.48	25.240		
6,900.00	6,355.21	6,438.74	6,332.03	47.84	27.46	-156.03	1,064.65	385.60	1,419.16	1,364.11	55.06	25.777		
7,000.00	6,443.82	6,538.34	6,431.62	48.74	27.73	-156.85	1,064.43	384.97	1,463.03	1,407.33	55.70	26.268		
7,100.00	6,532.43	6,635.56	6,528.82	49.63	28.00	-157.65	1,063.15	385.79	1,506.21	1,449.91	56.29	26.756		
7,200.00	6,621.04	6,723.11	6,616.36	50.53	28.23	-158.35	1,061.88	386.73	1,549.47	1,492.66	56.81	27.275		
7,300.00	6,709.65	6,810.65	6,703.89	51.42	28.47	-158.99	1,060.99	387.39	1,593.02	1,535.67	57.34	27.780		
7,400.00	6,798.26	6,904.49	6,797.73	52.32	28.73	-159.63	1,060.41	388.01	1,636.65	1,578.69	57.96	28.238		
7,500.00	6,886.87	7,000.43	6,893.67	53.22	29.01	-160.23	1,060.37	388.92	1,679.97	1,621.36	58.61	28.662		
7,600.00	6,975.48	7,090.49	6,983.72	54.12	29.28	-160.74	1,061.08	389.64	1,723.23	1,663.99	59.24	29.091		
7,656.30	7,025.36	7,139.86	7,033.09	54.62	29.43	-161.01	1,061.45	390.03	1,747.64	1,688.06	59.58	29.333		
7,700.00	7,064.54	7,186.58	7,079.81	55.00	29.57	-170.22	1,061.82	390.48	1,765.99	1,706.06	59.93	29.468		
7,750.00	7,110.29	7,242.37	7,135.59	55.40	29.74	177.78	1,062.41	391.25	1,785.33	1,724.97	60.36	29.578		
7,800.00	7,156.67	7,302.89	7,196.09	55.75	29.93	164.33	1,063.01	392.54	1,802.66	1,741.82	60.84	29.630		
7,850.00	7,203.34	7,355.06	7,248.23	56.05	30.09	150.17	1,063.39	394.08	1,817.89	1,756.65	61.24	29.683		
7,900.00	7,249.95	7,400.47	7,293.63	56.30	30.23	136.55	1,063.58	395.49	1,831.24	1,769.65	61.59	29.731		
7,950.00	7,296.14	7,445.79	7,338.92	56.50	30.37	124.66	1,063.69	396.89	1,842.71	1,780.75	61.96	29.742		
8,000.00	7,341.56	7,490.38	7,383.50	56.64	30.51	115.01	1,064.05	398.11	1,852.27	1,789.94	62.33	29.718		
8,050.00	7,385.86	7,535.35	7,428.45	56.74	30.65	107.56	1,064.68	399.21	1,859.96	1,797.24	62.73	29.653		
8,100.00	7,428.71	7,580.96	7,474.04	56.79	30.80	101.97	1,065.44	400.32	1,865.78	1,802.63	63.15	29.546		
8,150.00	7,469.77	7,623.90	7,516.96	56.80	30.94	97.85	1,066.22	401.40	1,869.80	1,806.23	63.57	29.413		
8,200.00	7,508.75	7,663.62	7,556.66	56.77	31.06	94.84	1,066.87	402.46	1,872.18	1,808.19	63.98	29.260		
8,250.00	7,545.33	7,701.02	7,594.04	56.70	31.18	92.73	1,067.38	403.51	1,873.05	1,808.65	64.40	29.083		
8,300.00	7,579.25	7,728.00	7,621.00	56.59	31.27	91.12	1,067.69	404.24	1,872.63	1,807.87	64.76	28.918		
8,350.00	7,610.24	7,752.22	7,645.21	56.45	31.35	90.04	1,067.92	404.83	1,871.12	1,806.01	65.12	28.735		
8,400.00	7,638.06	7,773.98	7,666.97	56.28	31.41	89.37	1,068.09	405.29	1,868.67	1,803.18	65.49	28.535		
8,450.00	7,662.52	7,793.12	7,686.11	56.09	31.47	89.03	1,068.20	405.64	1,865.40	1,799.53	65.87	28.319		
8,500.00	7,683.41	7,810.82	7,703.81	55.88	31.53	88.98	1,068.30	405.93	1,861.43	1,795.15	66.28	28.086		
8,550.00	7,700.59	7,825.66	7,718.65	55.64	31.57	89.14	1,068.37	406.15	1,856.87	1,790.18	66.69	27.843		
8,600.00	7,713.91	7,837.11	7,730.10	55.39	31.61	89.43	1,068.43	406.31	1,851.86	1,784.75	67.11	27.595		
8,650.00	7,723.29	7,845.10	7,738.08	55.14	31.63	89.83	1,068.47	406.41	1,846.48	1,778.95	67.53	27.343		
8,700.00	7,728.64	7,849.55	7,742.53	54.87	31.65	90.31	1,068.50	406.47	1,840.84	1,772.90	67.95	27.092		
8,740.83	7,730.00	7,850.56	7,743.54	54.65	31.65	90.74	1,068.50	406.48	1,836.09	1,767.81	68.29	26.888		
8,800.00	7,730.00	7,850.29	7,743.27	54.33	31.65	90.73	1,068.50	406.48	1,830.07	1,761.30	68.78	26.609		
8,900.00	7,730.00	7,849.83	7,742.81	53.82	31.65	90.72	1,068.50	406.47	1,824.22	1,754.61	69.61	26.207		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,956.95	7,730.00	7,849.57	7,742.56	53.54	31.65	90.71	1,068.50	406.47	1,823.33	1,753.24	70.09	26.014		
9,000.00	7,730.00	7,849.38	7,742.36	53.33	31.65	90.70	1,068.50	406.47	1,823.84	1,753.40	70.43	25.894		
9,100.00	7,730.00	7,848.93	7,741.91	52.87	31.65	90.69	1,068.49	406.46	1,828.93	1,757.70	71.24	25.674		
9,200.00	7,730.00	7,848.47	7,741.45	52.44	31.64	90.67	1,068.49	406.46	1,839.46	1,767.45	72.00	25.547		
9,300.00	7,730.00	7,848.02	7,741.00	52.03	31.64	90.66	1,068.49	406.45	1,855.32	1,782.60	72.72	25.512		
9,400.00	7,730.00	7,847.56	7,740.55	51.65	31.64	90.65	1,068.49	406.44	1,876.39	1,803.00	73.39	25.568		
9,500.00	7,730.00	7,847.11	7,740.09	51.29	31.64	90.63	1,068.48	406.44	1,902.48	1,828.49	73.99	25.713		
9,600.00	7,730.00	7,846.66	7,739.64	50.95	31.64	90.62	1,068.48	406.43	1,933.40	1,858.87	74.53	25.943		
9,700.00	7,730.00	7,846.20	7,739.18	50.64	31.64	90.60	1,068.48	406.43	1,968.92	1,893.92	75.00	26.253		
9,800.00	7,730.00	7,845.75	7,738.73	50.35	31.64	90.59	1,068.48	406.42	2,008.79	1,933.39	75.40	26.641		
9,900.00	7,730.00	7,845.30	7,738.28	50.09	31.63	90.57	1,068.47	406.42	2,052.77	1,977.02	75.74	27.102		
10,000.00	7,730.00	7,844.84	7,737.82	49.86	31.63	90.56	1,068.47	406.41	2,100.59	2,024.56	76.02	27.630		
10,100.00	7,730.00	7,844.39	7,737.37	49.65	31.63	90.55	1,068.47	406.40	2,151.99	2,075.74	76.25	28.222		
10,200.00	7,730.00	7,843.94	7,736.92	49.48	31.63	90.53	1,068.47	406.40	2,206.73	2,130.30	76.43	28.873		
10,300.00	7,730.00	7,843.48	7,736.46	49.35	31.63	90.52	1,068.46	406.39	2,264.57	2,188.01	76.56	29.578		
10,400.00	7,730.00	7,843.03	7,736.01	49.27	31.63	90.50	1,068.46	406.39	2,325.27	2,248.61	76.66	30.333		
10,500.00	7,730.00	7,842.58	7,735.56	49.26	31.63	90.49	1,068.46	406.38	2,388.61	2,311.90	76.72	31.135		
10,600.00	7,730.00	7,842.12	7,735.10	49.32	31.62	90.47	1,068.46	406.37	2,454.40	2,377.65	76.75	31.980		
10,700.00	7,730.00	7,841.67	7,734.65	49.51	31.62	90.46	1,068.46	406.37	2,522.44	2,445.68	76.75	32.865		
10,800.00	7,730.00	7,841.22	7,734.20	49.83	31.62	90.45	1,068.45	406.36	2,592.54	2,515.81	76.74	33.785		
10,900.00	7,730.00	7,840.76	7,733.74	50.31	31.62	90.43	1,068.45	406.36	2,664.56	2,587.86	76.70	34.739		
11,000.00	7,730.00	7,840.31	7,733.29	50.96	31.62	90.42	1,068.45	406.35	2,738.34	2,661.68	76.65	35.724		
11,100.00	7,730.00	7,839.86	7,732.84	51.75	31.62	90.40	1,068.45	406.35	2,813.73	2,737.14	76.59	36.736		
11,200.00	7,730.00	7,839.40	7,732.39	52.66	31.62	90.39	1,068.44	406.34	2,890.62	2,814.10	76.52	37.775		
11,300.00	7,730.00	7,838.95	7,731.93	53.67	31.62	90.37	1,068.44	406.33	2,968.89	2,892.44	76.44	38.837		
11,400.00	7,730.00	7,838.50	7,731.48	54.75	31.61	90.36	1,068.44	406.33	3,048.42	2,972.06	76.36	39.921		
11,500.00	7,730.00	7,838.04	7,731.03	55.89	31.61	90.35	1,068.44	406.32	3,129.14	3,052.86	76.27	41.026		
11,600.00	7,730.00	7,837.59	7,730.57	57.07	31.61	90.33	1,068.43	406.32	3,210.93	3,134.75	76.18	42.148		
11,700.00	7,730.00	7,837.14	7,730.12	58.30	31.61	90.32	1,068.43	406.31	3,293.73	3,217.65	76.09	43.288		
11,800.00	7,730.00	7,836.69	7,729.67	59.55	31.61	90.30	1,068.43	406.30	3,377.47	3,301.47	75.99	44.444		
11,900.00	7,730.00	7,836.23	7,729.22	60.84	31.61	90.29	1,068.43	406.30	3,462.06	3,386.16	75.90	45.614		
12,000.00	7,730.00	7,835.78	7,728.76	62.15	31.61	90.28	1,068.42	406.29	3,547.46	3,471.66	75.80	46.798		
12,100.00	7,730.00	7,835.33	7,728.31	63.49	31.60	90.26	1,068.42	406.28	3,633.60	3,557.89	75.71	47.994		
12,200.00	7,730.00	7,834.88	7,727.86	64.85	31.60	90.25	1,068.42	406.28	3,720.44	3,644.82	75.62	49.201		
12,300.00	7,730.00	7,834.42	7,727.41	66.22	31.60	90.23	1,068.42	406.27	3,807.92	3,732.39	75.53	50.419		
12,400.00	7,730.00	7,833.97	7,726.95	67.62	31.60	90.22	1,068.42	406.27	3,896.00	3,820.57	75.44	51.647		
12,500.00	7,730.00	7,833.52	7,726.50	69.03	31.60	90.20	1,068.41	406.26	3,984.65	3,909.30	75.35	52.883		
12,600.00	7,730.00	7,833.06	7,726.05	70.45	31.60	90.19	1,068.41	406.25	4,073.82	3,998.56	75.26	54.128		
12,700.00	7,730.00	7,832.61	7,725.60	71.90	31.60	90.18	1,068.41	406.25	4,163.49	4,088.31	75.18	55.380		
12,800.00	7,730.00	7,832.16	7,725.14	73.35	31.59	90.16	1,068.41	406.24	4,253.61	4,178.51	75.10	56.640		
12,900.00	7,730.00	7,831.71	7,724.69	74.81	31.59	90.15	1,068.40	406.24	4,344.17	4,269.15	75.02	57.906		
13,000.00	7,730.00	7,831.26	7,724.24	76.29	31.59	90.13	1,068.40	406.23	4,435.13	4,360.19	74.95	59.178		
13,100.00	7,730.00	7,830.80	7,723.79	77.78	31.59	90.12	1,068.40	406.22	4,526.48	4,451.60	74.87	60.456		
13,200.00	7,730.00	7,830.35	7,723.33	79.28	31.59	90.10	1,068.40	406.22	4,618.18	4,543.38	74.80	61.739		
13,300.00	7,730.00	7,829.90	7,722.88	80.79	31.59	90.09	1,068.39	406.21	4,710.22	4,635.49	74.73	63.026		
13,400.00	7,730.00	7,829.45	7,722.43	82.31	31.59	90.08	1,068.39	406.20	4,802.58	4,727.91	74.67	64.318		
13,500.00	7,730.00	7,828.99	7,721.98	83.84	31.58	90.06	1,068.39	406.20	4,895.24	4,820.63	74.61	65.613		
13,600.00	7,730.00	7,828.54	7,721.53	85.37	31.58	90.05	1,068.39	406.19	4,988.18	4,913.63	74.55	66.913		
13,700.00	7,730.00	7,828.09	7,721.07	86.92	31.58	90.03	1,068.39	406.18	5,081.39	5,006.90	74.49	68.215		
13,800.00	7,730.00	7,827.64	7,720.62	88.47	31.58	90.02	1,068.38	406.18	5,174.85	5,100.42	74.44	69.521		
13,900.00	7,730.00	7,827.19	7,720.17	90.03	31.58	90.01	1,068.38	406.17	5,268.56	5,194.17	74.38	70.829		
14,000.00	7,730.00	7,826.73	7,719.72	91.59	31.58	89.99	1,068.38	406.17	5,362.49	5,288.16	74.33	72.140		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,730.00	7,826.28	7,719.27	93.16	31.58	89.98	1,068.38	406.16	5,456.64	5,382.35	74.29	73.454		
14,200.00	7,730.00	7,825.83	7,718.81	94.74	31.57	89.96	1,068.37	406.15	5,550.99	5,476.75	74.24	74.769		
14,300.00	7,730.00	7,825.38	7,718.36	96.33	31.57	89.95	1,068.37	406.15	5,645.53	5,571.33	74.20	76.086		
14,400.00	7,730.00	7,824.93	7,717.91	97.92	31.57	89.93	1,068.37	406.14	5,740.26	5,666.10	74.16	77.404		
14,500.00	7,730.00	7,824.48	7,717.46	99.51	31.57	89.92	1,068.37	406.13	5,835.17	5,761.05	74.12	78.724		
14,600.00	7,730.00	7,824.02	7,717.01	101.11	31.57	89.91	1,068.36	406.13	5,930.24	5,856.16	74.09	80.046		
14,700.00	7,730.00	7,823.57	7,716.56	102.72	31.57	89.89	1,068.36	406.12	6,025.48	5,951.43	74.05	81.368		
14,800.00	7,730.00	7,823.12	7,716.10	104.33	31.57	89.88	1,068.36	406.11	6,120.86	6,046.84	74.02	82.691		
14,900.00	7,730.00	7,822.67	7,715.65	105.94	31.57	89.86	1,068.36	406.11	6,216.39	6,142.40	73.99	84.015		
15,000.00	7,730.00	7,822.22	7,715.20	107.56	31.56	89.85	1,068.36	406.10	6,312.06	6,238.10	73.96	85.339		
15,100.00	7,730.00	7,821.77	7,714.75	109.18	31.56	89.84	1,068.35	406.09	6,407.86	6,333.92	73.94	86.664		
15,200.00	7,730.00	7,821.31	7,714.30	110.81	31.56	89.82	1,068.35	406.09	6,503.79	6,429.88	73.92	87.989		
15,300.00	7,730.00	7,820.86	7,713.85	112.44	31.56	89.81	1,068.35	406.08	6,599.84	6,525.94	73.89	89.315		
15,400.00	7,730.00	7,820.41	7,713.40	114.08	31.56	89.79	1,068.35	406.07	6,696.00	6,622.13	73.87	90.640		
15,500.00	7,730.00	7,819.96	7,712.94	115.72	31.56	89.78	1,068.34	406.07	6,792.28	6,718.42	73.86	91.965		
15,600.00	7,730.00	7,819.51	7,712.49	117.36	31.56	89.76	1,068.34	406.06	6,888.66	6,814.82	73.84	93.290		
15,700.00	7,730.00	7,819.06	7,712.04	119.00	31.55	89.75	1,068.34	406.05	6,985.14	6,911.31	73.83	94.615		
15,800.00	7,730.00	7,818.61	7,711.59	120.65	31.55	89.74	1,068.34	406.05	7,081.72	7,007.91	73.81	95.940		
15,900.00	7,730.00	7,818.16	7,711.14	122.30	31.55	89.72	1,068.33	406.04	7,178.39	7,104.59	73.80	97.264		
16,000.00	7,730.00	7,817.70	7,710.69	123.96	31.55	89.71	1,068.33	406.03	7,275.16	7,201.36	73.79	98.587		
16,100.00	7,730.00	7,817.25	7,710.24	125.61	31.55	89.69	1,068.33	406.03	7,372.01	7,298.22	73.79	99.909		
16,200.00	7,730.00	7,816.80	7,709.79	127.27	31.55	89.68	1,068.33	406.02	7,468.94	7,395.16	73.78	101.231		
16,300.00	7,730.00	7,816.35	7,709.34	128.94	31.55	89.66	1,068.32	406.01	7,565.95	7,492.18	73.78	102.552		
16,400.00	7,730.00	7,815.90	7,708.88	130.60	31.54	89.65	1,068.32	406.01	7,663.04	7,589.27	73.77	103.872		
16,500.00	7,730.00	7,815.45	7,708.43	132.27	31.54	89.64	1,068.32	406.00	7,760.21	7,686.43	73.77	105.191		
16,600.00	7,730.00	7,815.00	7,707.98	133.94	31.54	89.62	1,068.32	405.99	7,857.44	7,783.67	73.77	106.509		
16,700.00	7,730.00	7,814.55	7,707.53	135.61	31.54	89.61	1,068.32	405.99	7,954.74	7,880.97	73.77	107.826		
16,800.00	7,730.00	7,814.10	7,707.08	137.28	31.54	89.59	1,068.31	405.98	8,052.11	7,978.34	73.78	109.141		
16,900.00	7,730.00	7,813.65	7,706.63	138.96	31.54	89.58	1,068.31	405.97	8,149.55	8,075.76	73.78	110.455		
17,000.00	7,730.00	7,813.19	7,706.18	140.64	31.54	89.57	1,068.31	405.96	8,247.04	8,173.25	73.79	111.768		
17,100.00	7,730.00	7,812.74	7,705.73	142.32	31.53	89.55	1,068.31	405.96	8,344.59	8,270.80	73.79	113.079		
17,200.00	7,730.00	7,812.29	7,705.28	144.00	31.53	89.54	1,068.30	405.95	8,442.20	8,368.40	73.80	114.389		
17,300.00	7,730.00	7,811.84	7,704.83	145.69	31.53	89.52	1,068.30	405.94	8,539.87	8,466.06	73.81	115.697		
17,400.00	7,730.00	7,811.39	7,704.38	147.37	31.53	89.51	1,068.30	405.94	8,637.59	8,563.77	73.82	117.004		
17,500.00	7,730.00	7,810.94	7,703.93	149.06	31.53	89.50	1,068.30	405.93	8,735.36	8,661.53	73.84	118.308		
17,600.00	7,730.00	7,810.49	7,703.48	150.75	31.53	89.48	1,068.29	405.92	8,833.18	8,759.33	73.85	119.611		
17,700.00	7,730.00	7,810.04	7,703.03	152.44	31.53	89.47	1,068.29	405.92	8,931.05	8,857.19	73.86	120.913		
17,800.00	7,730.00	7,809.59	7,702.58	154.13	31.52	89.45	1,068.29	405.91	9,028.97	8,955.09	73.88	122.212		
17,900.00	7,730.00	7,809.14	7,702.13	155.83	31.52	89.44	1,068.29	405.90	9,126.93	9,053.03	73.90	123.510		
18,000.00	7,730.00	7,808.69	7,701.67	157.52	31.52	89.42	1,068.29	405.89	9,224.93	9,151.02	73.91	124.805		
18,100.00	7,730.00	7,808.24	7,701.22	159.22	31.52	89.41	1,068.28	405.89	9,322.98	9,249.05	73.93	126.099		
18,200.00	7,730.00	7,807.79	7,700.77	160.92	31.52	89.40	1,068.28	405.88	9,421.07	9,347.11	73.95	127.390		
18,300.00	7,730.00	7,807.34	7,700.32	162.62	31.52	89.38	1,068.28	405.87	9,519.20	9,445.22	73.98	128.680		
18,400.00	7,730.00	18,400.00	7,678.36	164.32	65.59	88.69	1,068.12	405.44	9,617.36	9,507.64	109.72	87.653		
18,426.22	7,730.00	18,426.22	7,678.12	164.76	65.68	88.68	1,068.12	405.43	9,643.11	9,533.29	109.82	87.810		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-11.32	218.21	-43.68	222.76				
100.00	100.00	89.01	89.01	0.13	0.14	-11.31	218.41	-43.69	222.74	222.46	0.28	797.276	
200.00	200.00	188.45	188.45	0.49	0.41	-11.30	219.04	-43.76	223.37	222.47	0.90	248.721	
300.00	300.00	288.19	288.18	0.85	0.76	-11.31	219.74	-43.94	224.10	222.49	1.61	138.858	
400.00	400.00	391.47	391.46	1.21	1.12	-11.25	220.13	-43.79	224.44	222.11	2.33	96.220	
500.00	500.00	499.21	499.16	1.57	1.49	-10.89	217.99	-41.92	222.17	219.11	3.06	72.630	
600.00	600.00	606.59	606.28	1.93	1.87	-9.94	212.50	-37.25	216.36	212.57	3.79	57.083	
700.00	700.00	713.57	712.57	2.29	2.26	-8.10	203.71	-29.01	207.00	202.48	4.53	45.713	
800.00	800.00	818.38	816.05	2.64	2.69	-4.99	192.45	-16.82	194.93	189.66	5.27	36.965	
900.00	900.00	921.43	916.93	3.00	3.14	-0.36	178.51	-1.12	180.53	174.49	6.04	29.880	
1,000.00	1,000.00	1,019.51	1,012.33	3.36	3.60	5.65	163.73	16.21	166.04	159.20	6.84	24.264	
1,100.00	1,100.00	1,119.31	1,109.14	3.72	4.10	13.14	147.85	34.52	153.03	145.33	7.70	19.872	
1,200.00	1,200.00	1,214.24	1,201.21	4.08	4.59	21.38	132.62	51.91	142.86	134.27	8.59	16.631	
1,300.00	1,299.98	1,312.51	1,296.92	4.43	5.09	-17.17	117.75	68.54	134.75	125.26	9.49	14.201	
1,400.00	1,399.84	1,410.31	1,392.33	4.79	5.59	-8.34	102.96	84.12	126.07	115.70	10.37	12.156	
1,500.00	1,499.45	1,507.35	1,486.87	5.15	6.09	1.79	87.84	99.96	117.41	106.19	11.22	10.463	
1,600.00	1,598.70	1,603.80	1,580.50	5.51	6.60	14.09	71.79	116.61	110.04	98.05	11.99	9.175	
1,700.00	1,697.47	1,699.77	1,673.65	5.89	7.12	28.07	55.97	133.43	105.80	93.19	12.61	8.388	
1,754.48	1,751.02	1,752.27	1,724.69	6.10	7.39	36.16	47.63	142.48	105.16	92.28	12.89	8.160 CC, ES	
1,800.00	1,795.62	1,796.14	1,767.38	6.28	7.63	43.06	40.80	149.92	105.64	92.55	13.09	8.068 SF	
1,900.00	1,893.06	1,892.73	1,861.50	6.69	8.13	58.39	26.02	165.76	110.33	96.79	13.54	8.147	
2,000.00	1,989.64	1,990.26	1,957.00	7.13	8.62	73.01	12.47	180.25	119.48	105.34	14.14	8.451	
2,100.00	2,085.27	2,086.66	2,051.75	7.61	9.08	85.97	0.72	193.52	133.26	118.33	14.93	8.923	
2,200.00	2,179.82	2,179.30	2,142.99	8.12	9.52	97.43	-10.88	204.66	152.68	136.79	15.88	9.612	
2,300.00	2,273.17	2,266.51	2,228.59	8.67	9.94	106.57	-23.43	215.59	180.22	163.34	16.88	10.679	
2,400.00	2,365.21	2,352.24	2,312.29	9.27	10.38	113.61	-37.51	227.65	215.46	197.58	17.88	12.048	
2,500.00	2,455.84	2,441.73	2,399.48	9.92	10.85	119.28	-52.46	241.12	255.62	236.66	18.96	13.485	
2,580.62	2,527.80	2,514.85	2,470.78	10.49	11.23	122.98	-64.01	252.53	290.19	270.36	19.83	14.633	
2,600.00	2,544.97	2,532.44	2,487.94	10.63	11.32	123.92	-66.68	255.33	298.70	278.66	20.04	14.905	
2,700.00	2,633.58	2,619.89	2,573.16	11.37	11.78	127.78	-79.88	269.90	343.42	322.36	21.06	16.305	
2,800.00	2,722.19	2,712.84	2,663.73	12.13	12.27	130.84	-93.13	286.03	388.37	366.24	22.13	17.552	
2,900.00	2,810.80	2,801.36	2,750.05	12.91	12.73	133.13	-105.11	301.56	433.31	410.18	23.13	18.736	
3,000.00	2,899.41	2,882.30	2,829.00	13.71	13.16	134.91	-116.53	315.20	479.29	455.26	24.03	19.946	
3,100.00	2,988.02	2,966.87	2,911.52	14.52	13.60	136.56	-129.30	328.64	526.62	501.66	24.96	21.099	
3,200.00	3,076.63	3,051.84	2,994.34	15.34	14.05	137.92	-142.46	342.34	574.55	548.65	25.89	22.188	
3,300.00	3,165.24	3,137.28	3,077.54	16.16	14.50	139.06	-156.00	356.30	622.98	596.15	26.83	23.218	
3,400.00	3,253.85	3,230.98	3,168.96	17.00	14.99	140.21	-170.53	370.81	671.46	643.61	27.86	24.105	
3,500.00	3,342.46	3,322.37	3,258.27	17.84	15.46	141.18	-183.50	385.18	718.90	690.05	28.85	24.921	
3,600.00	3,431.07	3,406.89	3,340.90	18.69	15.89	141.99	-195.59	398.21	766.64	736.88	29.76	25.760	
3,700.00	3,519.68	3,493.02	3,425.04	19.55	16.34	142.70	-208.23	411.56	814.78	784.08	30.69	26.546	
3,800.00	3,608.29	3,581.59	3,511.63	20.40	16.79	143.37	-221.08	425.10	862.91	831.26	31.65	27.265	
3,900.00	3,696.90	3,671.81	3,599.85	21.26	17.25	143.99	-234.04	438.78	911.04	878.42	32.62	27.930	
4,000.00	3,785.51	3,765.76	3,691.97	22.13	17.72	144.64	-246.58	452.31	958.54	924.92	33.62	28.514	
4,100.00	3,874.12	3,848.88	3,773.36	23.00	18.14	145.11	-257.89	464.87	1,006.17	971.66	34.51	29.157	
4,200.00	3,962.73	3,933.57	3,855.99	23.87	18.58	145.47	-270.13	478.84	1,054.23	1,018.79	35.44	29.750	
4,300.00	4,051.34	4,040.59	3,960.62	24.74	19.13	145.92	-284.39	496.22	1,101.40	1,064.80	36.59	30.098	
4,400.00	4,139.95	4,117.00	4,035.38	25.62	19.51	146.22	-294.11	508.64	1,148.17	1,110.74	37.43	30.677	
4,500.00	4,228.56	4,181.45	4,098.21	26.49	19.86	146.42	-303.44	519.51	1,196.33	1,158.19	38.14	31.363	
4,600.00	4,317.17	4,258.40	4,172.95	27.37	20.27	146.60	-316.36	532.50	1,246.31	1,207.31	39.00	31.958	
4,700.00	4,405.78	4,349.95	4,262.27	28.25	20.74	146.91	-330.89	546.32	1,296.04	1,256.05	39.99	32.407	
4,800.00	4,494.39	4,459.47	4,370.02	29.13	21.26	147.47	-346.20	558.49	1,345.39	1,304.28	41.11	32.727	
4,900.00	4,583.00	4,569.03	4,478.49	30.02	21.73	148.15	-358.13	568.23	1,392.73	1,350.58	42.15	33.039	

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,672.55	4,581.36	30.90	22.14	148.87	-367.37	575.19	1,439.21	1,396.12	43.09	33.398		
5,100.00	4,760.22	4,778.06	4,686.43	31.79	22.52	149.62	-375.02	581.04	1,484.79	1,440.78	44.01	33.738		
5,200.00	4,848.83	4,880.07	4,788.22	32.67	22.87	150.40	-380.45	584.85	1,529.46	1,484.60	44.86	34.098		
5,300.00	4,937.44	4,959.61	4,867.65	33.56	23.12	151.02	-384.21	586.73	1,574.25	1,528.73	45.52	34.585		
5,400.00	5,026.05	5,034.35	4,942.29	34.45	23.36	151.60	-387.95	587.68	1,619.81	1,573.68	46.13	35.115		
5,500.00	5,114.66	5,105.12	5,012.95	35.34	23.57	152.14	-391.85	587.86	1,666.30	1,619.60	46.70	35.681		
5,600.00	5,203.27	5,268.37	5,176.02	36.23	24.06	153.34	-398.73	588.57	1,712.22	1,664.34	47.88	35.758		
5,700.00	5,291.88	5,364.22	5,271.86	37.12	24.32	154.05	-399.54	588.56	1,755.40	1,706.81	48.59	36.128		
5,800.00	5,380.50	5,455.03	5,362.67	38.01	24.55	154.72	-399.67	587.89	1,798.45	1,749.21	49.24	36.524		
5,900.00	5,469.11	5,539.81	5,447.45	38.90	24.76	155.32	-399.81	587.05	1,841.82	1,791.96	49.85	36.945		
6,000.00	5,557.72	5,629.96	5,537.60	39.79	24.98	155.94	-399.90	586.02	1,885.36	1,834.86	50.49	37.338		
6,100.00	5,646.33	5,718.78	5,626.41	40.68	25.20	156.52	-399.95	585.03	1,929.03	1,877.90	51.13	37.729		
6,200.00	5,734.94	5,810.01	5,717.63	41.58	25.43	157.09	-399.97	584.18	1,972.76	1,920.98	51.78	38.100		
6,300.00	5,823.55	5,899.90	5,807.52	42.47	25.66	157.62	-399.92	583.39	2,016.55	1,964.13	52.42	38.467		
6,400.00	5,912.16	5,991.73	5,899.34	43.36	25.90	158.15	-399.70	582.54	2,060.36	2,007.28	53.08	38.818		
6,500.00	6,000.77	6,076.14	5,983.75	44.26	26.11	158.62	-399.45	581.62	2,104.31	2,050.62	53.69	39.195		
6,600.00	6,089.38	6,166.83	6,074.43	45.15	26.34	159.11	-399.14	580.48	2,148.42	2,094.09	54.33	39.540		
6,700.00	6,177.99	6,260.18	6,167.77	46.05	26.58	159.60	-398.62	579.29	2,192.50	2,137.50	55.00	39.865		
6,800.00	6,266.60	6,352.00	6,259.59	46.94	26.82	160.05	-398.01	578.32	2,236.51	2,180.86	55.65	40.185		
6,900.00	6,355.21	6,437.79	6,345.37	47.84	27.05	160.46	-397.48	577.53	2,280.61	2,224.33	56.28	40.523		
7,000.00	6,443.82	6,524.02	6,431.60	48.74	27.28	160.85	-397.02	576.64	2,324.91	2,268.00	56.91	40.853		
7,100.00	6,532.43	6,617.49	6,525.06	49.63	27.53	161.26	-396.62	575.90	2,369.28	2,311.70	57.59	41.143		
7,200.00	6,621.04	6,705.27	6,612.84	50.53	27.76	161.62	-396.31	575.60	2,413.58	2,355.35	58.23	41.446		
7,300.00	6,709.65	6,790.27	6,697.84	51.42	28.00	161.95	-396.19	575.40	2,458.08	2,399.20	58.87	41.751		
7,400.00	6,798.26	6,873.14	6,780.71	52.32	28.25	162.25	-396.38	575.44	2,502.79	2,443.28	59.51	42.054		
7,500.00	6,886.87	6,966.96	6,864.52	53.22	28.50	162.53	-397.04	575.83	2,547.80	2,487.62	60.17	42.342		
7,600.00	6,975.48	7,043.67	6,951.23	54.12	28.77	162.80	-397.90	576.42	2,592.91	2,532.05	60.85	42.608		
7,656.30	7,025.36	7,089.85	6,997.40	54.62	28.92	162.94	-398.47	576.80	2,618.39	2,557.17	61.22	42.768		
7,700.00	7,064.54	7,125.72	7,033.27	55.00	29.03	154.81	-398.99	577.13	2,636.98	2,575.47	61.51	42.873		
7,750.00	7,110.29	7,166.96	7,074.50	55.40	29.16	143.91	-399.65	577.49	2,655.16	2,593.33	61.82	42.946		
7,800.00	7,156.67	7,209.49	7,117.02	55.75	29.30	131.44	-400.38	577.81	2,669.94	2,607.80	62.14	42.964		
7,850.00	7,203.34	7,257.80	7,165.33	56.05	29.45	118.20	-401.24	578.17	2,681.18	2,618.69	62.49	42.905		
7,900.00	7,249.95	7,306.15	7,213.67	56.30	29.61	105.44	-402.07	578.57	2,688.79	2,625.97	62.83	42.797		
7,950.00	7,296.14	7,353.91	7,261.42	56.50	29.76	94.34	-402.89	578.98	2,692.75	2,629.61	63.14	42.646		
8,000.00	7,341.56	7,401.79	7,309.29	56.64	29.92	85.43	-403.70	579.43	2,693.08	2,629.64	63.44	42.448		
8,050.00	7,385.86	7,451.43	7,358.92	56.74	30.08	78.68	-404.47	579.92	2,689.78	2,626.03	63.74	42.197		
8,100.00	7,428.71	7,504.09	7,411.57	56.79	30.24	73.82	-405.19	580.50	2,682.89	2,618.84	64.05	41.886		
8,150.00	7,469.77	7,563.82	7,471.30	56.80	30.44	70.58	-405.75	581.39	2,672.38	2,607.98	64.40	41.498		
8,200.00	7,508.75	7,599.65	7,507.12	56.77	30.55	68.30	-405.97	581.98	2,658.48	2,593.91	64.57	41.174		
8,250.00	7,545.33	7,626.69	7,534.15	56.70	30.63	66.91	-406.13	582.27	2,641.62	2,576.95	64.66	40.852		
8,300.00	7,579.25	7,651.68	7,559.14	56.59	30.71	66.36	-406.29	582.38	2,621.97	2,557.23	64.74	40.499		
8,350.00	7,610.24	7,674.76	7,582.22	56.45	30.78	66.54	-406.44	582.37	2,599.70	2,534.90	64.80	40.117		
8,400.00	7,638.06	7,697.64	7,605.11	56.28	30.85	67.43	-406.59	582.28	2,574.99	2,510.13	64.86	39.699		
8,450.00	7,662.52	7,717.79	7,625.25	56.09	30.91	68.94	-406.74	582.14	2,548.02	2,483.11	64.91	39.255		
8,500.00	7,683.41	7,735.05	7,642.52	55.88	30.96	71.04	-406.87	581.99	2,519.02	2,454.07	64.94	38.787		
8,550.00	7,700.59	7,749.31	7,656.77	55.64	31.01	73.71	-406.99	581.84	2,488.21	2,423.23	64.97	38.297		
8,600.00	7,713.91	7,760.46	7,667.92	55.39	31.04	76.93	-407.08	581.71	2,455.82	2,390.83	64.99	37.786		
8,650.00	7,723.29	7,769.44	7,676.90	55.14	31.06	80.71	-407.15	581.59	2,422.11	2,357.09	65.02	37.253		
8,700.00	7,728.64	7,776.08	7,683.54	54.87	31.08	85.00	-407.21	581.51	2,387.31	2,322.26	65.05	36.699		
8,740.83	7,730.00	7,778.01	7,685.47	54.65	31.09	88.80	-407.22	581.48	2,358.26	2,293.19	65.07	36.242		
8,800.00	7,730.00	7,778.54	7,686.00	54.33	31.09	88.81	-407.23	581.47	2,316.20	2,251.10	65.10	35.581		
8,900.00	7,730.00	7,779.42	7,686.88	53.82	31.09	88.85	-407.23	581.46	2,246.85	2,181.69	65.16	34.483		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,780.29	7,687.75	53.33	31.10	88.88	-407.24	581.45	2,179.89	2,114.64	65.25	33.407		
9,100.00	7,730.00	7,781.15	7,688.61	52.87	31.10	88.91	-407.25	581.44	2,115.54	2,050.16	65.38	32.357		
9,200.00	7,730.00	7,781.99	7,689.45	52.44	31.10	88.93	-407.25	581.43	2,054.04	1,988.49	65.55	31.336		
9,300.00	7,730.00	7,782.83	7,690.28	52.03	31.10	88.96	-407.26	581.42	1,995.66	1,929.90	65.76	30.348		
9,400.00	7,730.00	7,783.64	7,691.10	51.65	31.11	88.99	-407.27	581.41	1,940.68	1,874.67	66.02	29.397		
9,500.00	7,730.00	7,784.45	7,691.91	51.29	31.11	89.02	-407.27	581.40	1,889.40	1,823.08	66.32	28.488		
9,600.00	7,730.00	7,785.25	7,692.70	50.95	31.11	89.05	-407.28	581.39	1,842.12	1,775.44	66.68	27.628		
9,700.00	7,730.00	7,786.03	7,693.49	50.64	31.11	89.08	-407.28	581.38	1,799.16	1,732.08	67.08	26.820		
9,800.00	7,730.00	7,786.80	7,694.26	50.35	31.12	89.10	-407.29	581.37	1,760.84	1,693.31	67.53	26.074		
9,900.00	7,730.00	7,787.57	7,695.02	50.09	31.12	89.13	-407.29	581.36	1,727.47	1,659.44	68.03	25.394		
10,000.00	7,730.00	7,788.32	7,695.77	49.86	31.12	89.16	-407.30	581.35	1,699.33	1,630.77	68.55	24.788		
10,100.00	7,730.00	7,789.06	7,696.51	49.65	31.12	89.18	-407.30	581.34	1,676.69	1,607.58	69.11	24.262		
10,200.00	7,730.00	7,789.79	7,697.25	49.48	31.12	89.21	-407.31	581.33	1,659.77	1,590.10	69.67	23.822		
10,300.00	7,730.00	7,790.51	7,697.97	49.35	31.13	89.23	-407.31	581.32	1,648.76	1,578.52	70.24	23.472		
10,400.00	7,730.00	7,791.22	7,698.68	49.27	31.13	89.26	-407.32	581.31	1,643.77	1,572.97	70.80	23.217		
10,432.16	7,730.00	7,791.45	7,698.90	49.25	31.13	89.26	-407.32	581.31	1,643.46	1,572.48	70.98	23.154		
10,500.00	7,730.00	7,791.92	7,699.38	49.26	31.13	89.28	-407.32	581.30	1,644.86	1,573.52	71.33	23.058		
10,600.00	7,730.00	7,792.62	7,700.07	49.32	31.13	89.31	-407.33	581.29	1,652.01	1,580.17	71.84	22.997		
10,700.00	7,730.00	7,793.30	7,700.75	49.51	31.13	89.33	-407.33	581.28	1,665.14	1,592.84	72.30	23.032		
10,800.00	7,730.00	7,793.97	7,701.43	49.83	31.14	89.35	-407.34	581.27	1,684.12	1,611.41	72.71	23.162		
10,900.00	7,730.00	7,794.64	7,702.09	50.31	31.14	89.38	-407.34	581.27	1,708.75	1,635.67	73.07	23.384		
11,000.00	7,730.00	7,795.29	7,702.75	50.96	31.14	89.40	-407.35	581.26	1,738.79	1,665.40	73.39	23.693		
11,100.00	7,730.00	7,795.94	7,703.39	51.75	31.14	89.42	-407.35	581.25	1,773.96	1,700.31	73.65	24.087		
11,200.00	7,730.00	7,796.58	7,704.03	52.66	31.14	89.44	-407.36	581.24	1,813.97	1,740.11	73.86	24.558		
11,300.00	7,730.00	7,797.21	7,704.67	53.67	31.15	89.47	-407.36	581.23	1,858.51	1,784.47	74.04	25.103		
11,400.00	7,730.00	7,797.83	7,705.29	54.75	31.15	89.49	-407.36	581.22	1,907.26	1,833.09	74.17	25.715		
11,500.00	7,730.00	7,798.45	7,705.90	55.89	31.15	89.51	-407.37	581.22	1,959.89	1,885.63	74.27	26.390		
11,600.00	7,730.00	7,799.06	7,706.51	57.07	31.15	89.53	-407.37	581.21	2,016.12	1,941.79	74.33	27.123		
11,700.00	7,730.00	7,799.66	7,707.11	58.30	31.15	89.55	-407.37	581.20	2,075.64	2,001.27	74.37	27.908		
11,800.00	7,730.00	7,800.25	7,707.70	59.55	31.15	89.57	-407.38	581.19	2,138.19	2,063.80	74.39	28.742		
11,900.00	7,730.00	7,800.83	7,708.29	60.84	31.16	89.59	-407.38	581.19	2,203.50	2,129.11	74.39	29.620		
12,000.00	7,730.00	7,801.41	7,708.87	62.15	31.16	89.61	-407.39	581.18	2,271.34	2,196.96	74.38	30.538		
12,100.00	7,730.00	7,801.98	7,709.44	63.49	31.16	89.63	-407.39	581.17	2,341.48	2,267.13	74.35	31.492		
12,200.00	7,730.00	7,802.55	7,710.00	64.85	31.16	89.65	-407.39	581.16	2,413.73	2,339.41	74.32	32.479		
12,300.00	7,730.00	7,803.10	7,710.56	66.22	31.16	89.67	-407.40	581.16	2,487.90	2,413.62	74.27	33.497		
12,400.00	7,730.00	7,803.65	7,711.11	67.62	31.16	89.69	-407.40	581.15	2,563.82	2,489.60	74.22	34.542		
12,500.00	7,730.00	7,804.20	7,711.65	69.03	31.17	89.71	-407.40	581.14	2,641.35	2,567.18	74.17	35.612		
12,600.00	7,730.00	7,804.74	7,712.19	70.45	31.17	89.73	-407.41	581.14	2,720.35	2,646.23	74.11	36.705		
12,700.00	7,730.00	7,805.27	7,712.72	71.90	31.17	89.75	-407.41	581.13	2,800.68	2,726.63	74.06	37.819		
12,800.00	7,730.00	7,805.79	7,713.24	73.35	31.17	89.76	-407.41	581.12	2,882.25	2,808.26	74.00	38.951		
12,900.00	7,730.00	7,806.31	7,713.76	74.81	31.17	89.78	-407.42	581.12	2,964.95	2,891.01	73.94	40.101		
13,000.00	7,730.00	7,806.82	7,714.28	76.29	31.17	89.80	-407.42	581.11	3,048.68	2,974.81	73.88	41.266		
13,100.00	7,730.00	7,807.33	7,714.78	77.78	31.17	89.82	-407.42	581.10	3,133.37	3,059.55	73.82	42.446		
13,200.00	7,730.00	7,807.83	7,715.28	79.28	31.18	89.84	-407.42	581.10	3,218.94	3,145.18	73.76	43.639		
13,300.00	7,730.00	7,808.33	7,715.78	80.79	31.18	89.85	-407.43	581.09	3,305.32	3,231.61	73.71	44.844		
13,400.00	7,730.00	7,808.82	7,716.27	82.31	31.18	89.87	-407.43	581.09	3,392.44	3,318.79	73.65	46.060		
13,500.00	7,730.00	7,809.30	7,716.75	83.84	31.18	89.89	-407.43	581.08	3,480.26	3,406.66	73.60	47.285		
13,600.00	7,730.00	7,809.78	7,717.23	85.37	31.18	89.90	-407.44	581.07	3,568.72	3,495.17	73.55	48.520		
13,700.00	7,730.00	7,810.25	7,717.71	86.92	31.18	89.92	-407.44	581.07	3,657.77	3,584.27	73.50	49.763		
13,800.00	7,730.00	7,810.72	7,718.17	88.47	31.18	89.94	-407.44	581.06	3,747.38	3,673.92	73.46	51.014		
13,900.00	7,730.00	7,811.18	7,718.64	90.03	31.19	89.95	-407.44	581.06	3,837.50	3,764.08	73.41	52.272		
14,000.00	7,730.00	7,811.64	7,719.09	91.59	31.19	89.97	-407.45	581.05	3,928.09	3,854.72	73.37	53.536		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,812.10	7,719.55	93.16	31.19	89.98	-407.45	581.04	4,019.14	3,945.80	73.33	54.806		
14,200.00	7,730.00	7,812.54	7,720.00	94.74	31.19	90.00	-407.45	581.04	4,110.60	4,037.30	73.30	56.081		
14,300.00	7,730.00	7,812.99	7,720.44	96.33	31.19	90.02	-407.45	581.03	4,202.45	4,129.18	73.26	57.361		
14,400.00	7,730.00	7,813.43	7,720.88	97.92	31.19	90.03	-407.46	581.03	4,294.66	4,221.43	73.23	58.645		
14,500.00	7,730.00	7,813.86	7,721.31	99.51	31.19	90.05	-407.46	581.02	4,387.21	4,314.01	73.20	59.933		
14,600.00	7,730.00	7,814.29	7,721.74	101.11	31.19	90.06	-407.46	581.02	4,480.09	4,406.91	73.17	61.225		
14,700.00	7,730.00	7,814.71	7,722.17	102.72	31.20	90.08	-407.46	581.01	4,573.26	4,500.11	73.15	62.520		
14,800.00	7,730.00	7,815.13	7,722.59	104.33	31.20	90.09	-407.46	581.01	4,666.72	4,593.59	73.13	63.818		
14,900.00	7,730.00	7,815.55	7,723.00	105.94	31.20	90.10	-407.47	581.00	4,760.44	4,687.34	73.10	65.118		
15,000.00	7,730.00	7,815.96	7,723.41	107.56	31.20	90.12	-407.47	581.00	4,854.41	4,781.33	73.09	66.421		
15,100.00	7,730.00	7,816.37	7,723.82	109.18	31.20	90.13	-407.47	580.99	4,948.62	4,875.55	73.07	67.726		
15,200.00	7,730.00	7,816.77	7,724.22	110.81	31.20	90.15	-407.47	580.99	5,043.06	4,970.00	73.05	69.032		
15,300.00	7,730.00	7,817.17	7,724.62	112.44	31.20	90.16	-407.47	580.98	5,137.70	5,064.66	73.04	70.340		
15,400.00	7,730.00	7,817.57	7,725.02	114.08	31.20	90.17	-407.48	580.98	5,232.54	5,159.51	73.03	71.650		
15,500.00	7,730.00	7,817.96	7,725.41	115.72	31.21	90.19	-407.48	580.97	5,327.57	5,254.55	73.02	72.961		
15,600.00	7,730.00	7,818.35	7,725.80	117.36	31.21	90.20	-407.48	580.97	5,422.78	5,349.77	73.01	74.272		
15,700.00	7,730.00	7,818.73	7,726.18	119.00	31.21	90.22	-407.48	580.96	5,518.16	5,445.15	73.01	75.585		
15,800.00	7,730.00	7,819.11	7,726.56	120.65	31.21	90.23	-407.48	580.96	5,613.70	5,540.70	73.00	76.898		
15,900.00	7,730.00	7,819.48	7,726.94	122.30	31.21	90.24	-407.49	580.95	5,709.39	5,636.39	73.00	78.211		
16,000.00	7,730.00	7,819.86	7,727.31	123.96	31.21	90.25	-407.49	580.95	5,805.23	5,732.23	73.00	79.525		
16,100.00	7,730.00	7,820.22	7,727.68	125.61	31.21	90.27	-407.49	580.94	5,901.21	5,828.21	73.00	80.839		
16,200.00	7,730.00	7,820.59	7,728.04	127.27	31.21	90.28	-407.49	580.94	5,997.31	5,924.31	73.00	82.152		
16,300.00	7,730.00	7,820.95	7,728.40	128.94	31.21	90.29	-407.49	580.93	6,093.55	6,020.54	73.01	83.466		
16,400.00	7,730.00	7,821.31	7,728.76	130.60	31.22	90.31	-407.50	580.93	6,189.90	6,116.89	73.01	84.779		
16,500.00	7,730.00	7,821.66	7,729.11	132.27	31.22	90.32	-407.50	580.92	6,286.36	6,213.34	73.02	86.093		
16,600.00	7,730.00	7,822.01	7,729.47	133.94	31.22	90.33	-407.50	580.92	6,382.94	6,309.91	73.03	87.405		
16,700.00	7,730.00	7,822.36	7,729.81	135.61	31.22	90.34	-407.50	580.92	6,479.62	6,406.58	73.04	88.717		
16,800.00	7,730.00	7,822.71	7,730.16	137.28	31.22	90.35	-407.50	580.91	6,576.39	6,503.35	73.05	90.028		
16,900.00	7,730.00	7,823.05	7,730.50	138.96	31.22	90.37	-407.50	580.91	6,673.27	6,600.21	73.06	91.339		
17,000.00	7,730.00	7,823.38	7,730.84	140.64	31.22	90.38	-407.51	580.90	6,770.23	6,697.16	73.07	92.648		
17,100.00	7,730.00	7,823.72	7,731.17	142.32	31.22	90.39	-407.51	580.90	6,867.28	6,794.19	73.09	93.957		
17,200.00	7,730.00	7,824.05	7,731.50	144.00	31.22	90.40	-407.51	580.89	6,964.41	6,891.31	73.11	95.265		
17,300.00	7,730.00	7,824.38	7,731.83	145.69	31.22	90.41	-407.51	580.89	7,061.63	6,988.51	73.12	96.571		
17,400.00	7,730.00	7,824.70	7,732.16	147.37	31.23	90.42	-407.51	580.89	7,158.92	7,085.78	73.14	97.876		
17,500.00	7,730.00	7,825.03	7,732.48	149.06	31.23	90.43	-407.51	580.88	7,256.28	7,183.12	73.16	99.180		
17,600.00	7,730.00	7,825.35	7,732.80	150.75	31.23	90.45	-407.51	580.88	7,353.72	7,280.54	73.18	100.482		
17,700.00	7,730.00	7,825.66	7,733.11	152.44	31.23	90.46	-407.52	580.87	7,451.22	7,378.02	73.21	101.784		
17,800.00	7,730.00	7,825.98	7,733.43	154.13	31.23	90.47	-407.52	580.87	7,548.79	7,475.56	73.23	103.083		
17,900.00	7,730.00	7,826.29	7,733.74	155.83	31.23	90.48	-407.52	580.87	7,646.42	7,573.17	73.25	104.381		
18,000.00	7,730.00	7,826.60	7,734.05	157.52	31.23	90.49	-407.52	580.86	7,744.11	7,670.83	73.28	105.677		
18,100.00	7,730.00	7,826.90	7,734.35	159.22	31.23	90.50	-407.52	580.86	7,841.86	7,768.56	73.31	106.972		
18,200.00	7,730.00	7,827.20	7,734.66	160.92	31.23	90.51	-407.52	580.86	7,939.67	7,866.33	73.34	108.265		
18,300.00	7,730.00	7,827.50	7,734.96	162.62	31.23	90.52	-407.52	580.85	8,037.53	7,964.17	73.36	109.556		
18,400.00	7,730.00	7,827.80	7,735.25	164.32	31.23	90.53	-407.53	580.85	8,135.44	8,062.05	73.39	110.845		
18,426.22	7,730.00	7,827.88	7,735.33	164.76	31.23	90.53	-407.53	580.85	8,161.12	8,087.72	73.40	111.183		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-21.44	218.21	-85.68	234.64				
100.00	100.00	91.07	91.07	0.13	0.15	-21.56	217.84	-86.05	234.22	233.94	0.28	826.612	
171.27	171.27	161.28	161.27	0.39	0.31	-21.78	217.17	-86.79	233.87	233.17	0.70	335.596 CC	
200.00	200.00	188.16	188.15	0.49	0.40	-21.83	217.20	-87.00	233.98	233.09	0.89	261.804 ES	
300.00	300.00	279.51	279.47	0.85	0.72	-21.68	219.46	-87.25	236.41	234.83	1.58	149.627	
400.00	400.00	370.40	370.14	1.21	1.06	-21.17	225.73	-87.40	242.87	240.61	2.26	107.243	
500.00	500.00	462.09	461.31	1.57	1.39	-20.32	235.39	-87.17	252.65	249.69	2.95	85.540	
600.00	600.00	552.22	550.58	1.93	1.75	-19.46	247.72	-87.52	265.66	262.03	3.64	73.026	
700.00	700.00	640.53	637.54	2.29	2.13	-18.51	263.11	-88.07	282.38	278.06	4.31	65.456	
800.00	800.00	727.71	722.75	2.64	2.53	-17.56	281.47	-89.06	302.79	297.81	4.98	60.772	
900.00	900.00	812.95	805.36	3.00	2.95	-16.63	302.44	-90.36	326.80	321.16	5.64	57.960	
1,000.00	1,000.00	899.02	887.89	3.36	3.41	-15.70	326.80	-91.84	354.49	348.19	6.30	56.283	
1,100.00	1,100.00	994.02	978.63	3.72	3.95	-14.81	354.84	-93.84	383.56	376.56	7.00	54.774	
1,200.00	1,200.00	1,088.43	1,068.89	4.08	4.49	-14.05	382.47	-95.73	412.45	404.72	7.73	53.388	
1,300.00	1,299.98	1,178.19	1,154.31	4.43	5.02	-60.17	409.97	-97.60	441.91	433.50	8.41	52.551	
1,400.00	1,399.84	1,275.73	1,247.09	4.79	5.60	-59.64	439.98	-99.88	469.92	460.77	9.15	51.361	
1,500.00	1,499.45	1,370.30	1,337.07	5.15	6.17	-59.49	469.03	-101.99	496.18	486.30	9.88	50.227	
1,600.00	1,598.70	1,461.22	1,423.30	5.51	6.73	-59.60	497.80	-103.83	521.61	511.02	10.60	49.231	
1,700.00	1,697.47	1,552.58	1,509.60	5.89	7.31	-59.91	527.74	-105.37	546.44	535.11	11.33	48.214	
1,800.00	1,795.62	1,646.12	1,597.72	6.28	7.90	-60.50	559.05	-107.24	570.51	558.39	12.11	47.095	
1,900.00	1,893.06	1,743.86	1,689.80	6.69	8.53	-61.43	591.74	-109.78	593.26	580.31	12.96	45.783	
2,000.00	1,989.64	1,843.61	1,783.97	7.13	9.17	-62.68	624.46	-113.06	614.34	600.48	13.86	44.338	
2,100.00	2,085.27	1,946.63	1,881.52	7.61	9.82	-64.29	657.31	-117.12	633.73	618.91	14.82	42.751	
2,200.00	2,179.82	2,048.88	1,978.86	8.12	10.45	-66.18	688.30	-121.73	651.05	635.22	15.84	41.105	
2,300.00	2,273.17	2,150.12	2,075.50	8.67	11.06	-68.29	718.02	-126.71	667.26	650.35	16.91	39.458	
2,400.00	2,365.21	2,253.39	2,174.37	9.27	11.67	-70.57	747.57	-130.63	682.21	664.14	18.07	37.753	
2,500.00	2,455.84	2,354.83	2,271.78	9.92	12.26	-72.95	775.79	-133.50	696.17	676.87	19.30	36.075	
2,580.62	2,527.80	2,438.22	2,352.05	10.49	12.73	-75.02	798.29	-135.35	706.94	686.58	20.36	34.720	
2,600.00	2,544.97	2,458.34	2,371.45	10.63	12.85	-75.58	803.61	-135.69	709.47	688.85	20.62	34.399	
2,700.00	2,633.58	2,550.71	2,460.53	11.37	13.37	-78.09	828.02	-137.14	723.40	701.47	21.93	32.989	
2,800.00	2,722.19	2,645.36	2,551.80	12.13	13.90	-80.57	853.03	-138.58	738.81	715.53	23.28	31.734	
2,900.00	2,810.80	2,741.84	2,644.94	12.91	14.44	-83.02	878.12	-140.11	755.36	730.69	24.67	30.619	
3,000.00	2,899.41	2,846.36	2,745.90	13.71	15.01	-85.50	905.17	-140.46	772.36	746.23	26.13	29.554	
3,100.00	2,988.02	2,936.92	2,833.33	14.52	15.52	-87.51	928.75	-140.04	790.15	762.64	27.51	28.725	
3,200.00	3,076.63	3,027.72	2,921.08	15.34	16.02	-89.50	952.13	-140.27	809.28	780.40	28.88	28.020	
3,300.00	3,165.24	3,115.81	3,005.98	16.16	16.51	-91.29	975.60	-140.39	829.97	799.73	30.24	27.449	
3,400.00	3,253.85	3,195.55	3,082.39	17.00	16.98	-92.76	998.41	-140.34	852.63	821.10	31.52	27.048	
3,500.00	3,342.46	3,300.57	3,182.68	17.84	17.61	-94.53	1,029.56	-139.85	876.41	843.38	33.04	26.529	
3,600.00	3,431.07	3,389.92	3,268.06	18.69	18.14	-95.95	1,055.88	-138.93	900.26	865.86	34.40	26.167	
3,700.00	3,519.68	3,492.75	3,366.13	19.55	18.76	-97.44	1,086.72	-137.33	924.60	888.70	35.90	25.757	
3,800.00	3,608.29	3,594.53	3,463.28	20.40	19.37	-98.83	1,116.96	-134.85	948.58	911.20	37.38	25.380	
3,900.00	3,696.90	3,658.86	3,524.75	21.26	19.76	-99.72	1,135.93	-134.52	974.34	935.86	38.48	25.319	
4,000.00	3,785.51	3,755.60	3,617.34	22.13	20.33	-101.09	1,163.92	-136.09	1,002.10	962.22	39.88	25.127	
4,100.00	3,874.12	3,852.78	3,710.89	23.00	20.89	-102.49	1,190.17	-137.90	1,029.61	988.35	41.26	24.953	
4,200.00	3,962.73	3,950.73	3,805.17	23.87	21.44	-103.82	1,216.71	-139.33	1,057.35	1,014.71	42.64	24.796	
4,300.00	4,051.34	4,045.63	3,896.38	24.74	21.99	-105.00	1,242.88	-140.10	1,085.25	1,041.26	43.99	24.672	
4,400.00	4,139.95	4,159.03	4,005.66	25.62	22.63	-106.38	1,273.15	-140.44	1,112.76	1,067.27	45.50	24.459	
4,500.00	4,228.56	4,245.19	4,088.54	26.49	23.12	-107.33	1,296.70	-139.99	1,140.23	1,093.49	46.74	24.394	
4,600.00	4,317.17	4,342.96	4,182.36	27.37	23.69	-108.32	1,324.20	-139.14	1,168.07	1,119.97	48.10	24.282	
4,700.00	4,405.78	4,422.91	4,259.12	28.25	24.16	-109.10	1,346.56	-138.94	1,196.68	1,147.41	49.27	24.286	
4,800.00	4,494.39	4,501.24	4,334.41	29.13	24.61	-109.88	1,368.14	-139.87	1,226.67	1,176.26	50.40	24.337	
4,900.00	4,583.00	4,609.19	4,438.22	30.02	25.23	-110.92	1,397.71	-141.62	1,257.31	1,205.47	51.84	24.256	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,717.37	4,541.83	30.90	25.86	-111.81	1,428.80	-141.09	1,286.80	1,233.52	53.28	24.150		
5,100.00	4,760.22	4,805.04	4,625.57	31.79	26.39	-112.45	1,454.72	-140.19	1,316.31	1,261.78	54.53	24.140		
5,200.00	4,848.83	4,910.07	4,726.32	32.67	27.01	-113.26	1,484.39	-139.37	1,345.77	1,289.84	55.93	24.061 SF		
5,300.00	4,937.44	4,997.63	4,810.77	33.56	27.49	-113.97	1,507.50	-139.19	1,375.36	1,318.24	57.12	24.080		
5,400.00	5,026.05	5,082.98	4,893.38	34.45	27.96	-114.70	1,528.95	-139.80	1,405.61	1,347.36	58.26	24.128		
5,500.00	5,114.66	5,169.43	4,977.22	35.34	28.42	-115.45	1,549.98	-141.14	1,436.62	1,377.24	59.38	24.193		
5,600.00	5,203.27	5,271.93	5,077.07	36.23	28.94	-116.37	1,573.03	-143.25	1,467.84	1,407.22	60.63	24.210		
5,700.00	5,291.88	5,364.53	5,187.68	37.12	29.46	-117.52	1,593.90	-145.63	1,498.39	1,436.51	61.88	24.213		
5,800.00	5,380.50	5,491.06	5,293.03	38.01	29.90	-118.71	1,609.48	-147.71	1,528.27	1,465.27	63.00	24.258		
5,900.00	5,469.11	5,590.18	5,391.52	38.90	30.26	-119.89	1,620.47	-149.77	1,557.97	1,493.98	63.98	24.350		
6,000.00	5,557.72	5,683.84	5,484.79	39.79	30.57	-121.05	1,628.70	-151.88	1,587.92	1,523.06	64.87	24.479		
6,100.00	5,646.33	5,785.21	5,585.96	40.68	30.87	-122.38	1,634.43	-154.57	1,618.31	1,552.58	65.73	24.621		
6,200.00	5,734.94	5,912.85	5,713.52	41.58	31.21	-124.08	1,638.27	-156.44	1,647.94	1,581.29	66.65	24.726		
6,300.00	5,823.55	6,003.30	5,803.96	42.47	31.44	-125.26	1,640.00	-156.63	1,677.00	1,609.65	67.35	24.899		
6,400.00	5,912.16	6,084.56	5,885.20	43.36	31.63	-126.32	1,641.05	-157.10	1,707.03	1,639.05	67.98	25.111		
6,500.00	6,000.77	6,167.82	5,968.46	44.26	31.82	-127.40	1,641.07	-158.09	1,738.17	1,669.59	68.58	25.345		
6,600.00	6,089.38	6,259.31	6,059.95	45.15	32.04	-128.54	1,641.48	-159.21	1,770.09	1,700.88	69.21	25.576		
6,700.00	6,177.99	6,346.48	6,147.11	46.05	32.24	-129.59	1,642.01	-160.06	1,802.45	1,732.64	69.81	25.820		
6,800.00	6,266.60	6,434.64	6,235.26	46.94	32.46	-130.61	1,642.71	-161.15	1,835.66	1,765.26	70.40	26.073		
6,900.00	6,355.21	6,528.44	6,329.05	47.84	32.69	-131.66	1,643.62	-162.01	1,869.16	1,798.14	71.02	26.318		
7,000.00	6,443.82	6,625.12	6,425.73	48.74	32.92	-132.73	1,643.83	-162.74	1,903.07	1,831.44	71.63	26.567		
7,100.00	6,532.43	6,724.66	6,525.27	49.63	33.17	-133.78	1,644.24	-162.78	1,936.85	1,864.59	72.26	26.805		
7,200.00	6,621.04	6,808.60	6,609.20	50.53	33.38	-134.62	1,645.22	-162.68	1,971.00	1,898.19	72.81	27.070		
7,300.00	6,709.65	6,887.50	6,688.08	51.42	33.59	-135.38	1,646.59	-163.01	2,006.06	1,932.72	73.34	27.353		
7,400.00	6,798.26	6,974.24	6,774.81	52.32	33.83	-136.18	1,648.35	-163.67	2,041.83	1,967.91	73.92	27.624		
7,500.00	6,886.87	7,071.54	6,872.08	53.22	34.09	-137.04	1,650.60	-164.17	2,077.74	2,003.18	74.56	27.868		
7,600.00	6,975.48	7,158.74	6,959.26	54.12	34.33	-137.79	1,652.38	-164.51	2,113.93	2,038.80	75.13	28.138		
7,656.30	7,025.36	7,207.32	7,007.83	54.62	34.47	-138.20	1,653.28	-164.74	2,134.50	2,059.06	75.44	28.292		
7,700.00	7,064.54	7,246.85	7,047.35	55.00	34.57	-147.36	1,654.02	-164.94	2,150.61	2,074.91	75.70	28.410		
7,750.00	7,110.29	7,297.45	7,097.94	55.40	34.72	-159.61	1,655.21	-165.16	2,169.01	2,092.99	76.02	28.531		
7,800.00	7,156.67	7,356.99	7,157.45	55.75	34.89	-173.54	1,657.07	-165.26	2,187.15	2,110.75	76.40	28.628		
7,850.00	7,203.34	7,430.31	7,230.71	56.05	35.11	171.76	1,660.09	-164.72	2,204.52	2,127.66	76.86	28.682		
7,900.00	7,249.95	7,472.18	7,272.55	56.30	35.22	157.43	1,661.26	-164.20	2,221.29	2,144.18	77.11	28.808		
7,950.00	7,296.14	7,517.13	7,317.50	56.50	35.34	144.69	1,661.38	-163.56	2,237.58	2,160.23	77.35	28.926		
8,000.00	7,341.56	7,552.58	7,352.94	56.64	35.42	133.99	1,660.87	-163.11	2,253.41	2,175.88	77.53	29.066		
8,050.00	7,385.86	7,587.72	7,388.07	56.74	35.50	125.33	1,660.02	-162.79	2,268.77	2,191.08	77.69	29.202		
8,100.00	7,428.71	7,636.71	7,437.03	56.79	35.61	118.57	1,658.41	-162.44	2,283.58	2,205.66	77.92	29.307		
8,150.00	7,469.77	7,707.51	7,507.79	56.80	35.77	113.55	1,656.20	-161.30	2,297.27	2,219.03	78.24	29.362		
8,200.00	7,508.75	7,740.32	7,540.58	56.77	35.84	109.17	1,655.26	-160.64	2,310.10	2,231.70	78.40	29.466		
8,250.00	7,545.33	7,773.16	7,573.41	56.70	35.91	105.65	1,654.37	-160.04	2,322.36	2,243.80	78.56	29.560		
8,300.00	7,579.25	7,805.66	7,605.89	56.59	35.99	102.81	1,653.53	-159.52	2,334.07	2,255.34	78.73	29.647		
8,350.00	7,610.24	7,842.29	7,642.50	56.45	36.07	100.60	1,652.57	-158.90	2,345.17	2,266.25	78.92	29.717		
8,400.00	7,638.06	7,875.52	7,675.71	56.28	36.15	98.79	1,651.67	-158.27	2,355.69	2,276.59	79.09	29.785		
8,450.00	7,662.52	7,910.93	7,711.10	56.09	36.23	97.41	1,650.64	-157.53	2,365.66	2,286.38	79.27	29.841		
8,500.00	7,683.41	7,946.97	7,747.11	55.88	36.31	96.37	1,649.46	-156.58	2,375.07	2,295.61	79.46	29.891		
8,550.00	7,700.59	7,977.74	7,777.84	55.64	36.38	95.50	1,648.33	-155.61	2,384.00	2,304.38	79.62	29.942		
8,600.00	7,713.91	8,052.63	7,852.57	55.39	36.54	95.90	1,645.00	-152.23	2,392.40	2,312.50	79.91	29.940		
8,650.00	7,723.29	8,050.00	7,845.97	55.14	37.82	94.62	1,645.17	-152.29	2,400.07	2,318.80	81.27	29.532		
8,700.00	7,728.64	8,700.00	7,853.72	54.87	37.93	93.85	1,644.81	-151.90	2,407.85	2,326.41	81.44	29.566		
8,740.83	7,730.00	8,102.62	7,902.39	54.65	36.64	94.38	1,642.29	-149.03	2,413.98	2,333.80	80.18	30.108		
8,800.00	7,730.00	8,106.93	7,906.68	54.33	36.65	94.48	1,642.05	-148.73	2,423.40	2,343.17	80.23	30.205		
8,900.00	7,730.00	8,114.33	7,914.06	53.82	36.67	94.66	1,641.63	-148.23	2,442.49	2,362.19	80.30	30.416		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	8,121.89	7,921.58	53.33	36.68	94.84	1,641.19	-147.71	2,465.48	2,385.14	80.34	30.688		
9,100.00	7,730.00	8,129.59	7,929.25	52.87	36.70	95.03	1,640.74	-147.17	2,492.25	2,411.90	80.35	31.017		
9,200.00	7,730.00	8,137.46	7,937.08	52.44	36.71	95.22	1,640.27	-146.62	2,522.69	2,442.35	80.33	31.403		
9,300.00	7,730.00	8,145.48	7,945.08	52.03	36.73	95.41	1,639.80	-146.05	2,556.66	2,476.37	80.29	31.844		
9,400.00	7,730.00	8,153.68	7,953.23	51.65	36.75	95.60	1,639.30	-145.46	2,594.02	2,513.80	80.22	32.337		
9,500.00	7,730.00	8,162.04	7,961.56	51.29	36.76	95.80	1,638.79	-144.86	2,634.63	2,554.50	80.13	32.880		
9,600.00	7,730.00	8,170.59	7,970.07	50.95	36.78	96.01	1,638.27	-144.24	2,678.34	2,598.32	80.02	33.470		
9,700.00	7,730.00	8,179.32	7,978.76	50.64	36.80	96.22	1,637.73	-143.60	2,725.01	2,645.11	79.90	34.106		
9,800.00	7,730.00	8,188.24	7,987.64	50.35	36.82	96.43	1,637.16	-142.93	2,774.47	2,694.71	79.76	34.785		
9,900.00	7,730.00	8,197.00	7,996.09	50.09	40.37	96.11	1,638.03	-143.96	2,826.67	2,742.92	83.75	33.753		
10,000.00	7,730.00	8,171.00	7,970.48	49.86	36.78	96.02	1,638.24	-144.21	2,881.36	2,801.95	79.41	36.284		
10,100.00	7,730.00	8,171.00	7,970.48	49.65	36.78	96.02	1,638.24	-144.21	2,938.44	2,859.20	79.24	37.084		
10,200.00	7,730.00	8,171.00	7,970.48	49.48	36.78	96.02	1,638.24	-144.21	2,997.77	2,918.71	79.06	37.917		
10,300.00	7,730.00	8,171.00	7,970.48	49.35	36.78	96.02	1,638.24	-144.21	3,059.22	2,980.34	78.88	38.783		
10,400.00	7,730.00	8,171.00	7,970.48	49.27	36.78	96.02	1,638.24	-144.21	3,122.66	3,043.96	78.70	39.678		
10,500.00	7,730.00	8,171.00	7,970.48	49.26	36.78	96.02	1,638.24	-144.21	3,187.97	3,109.45	78.52	40.602		
10,600.00	7,730.00	8,171.00	7,970.48	49.32	36.78	96.02	1,638.24	-144.21	3,255.05	3,176.71	78.34	41.551		
10,700.00	7,730.00	8,171.00	7,970.48	49.51	36.78	96.02	1,638.24	-144.21	3,323.78	3,245.62	78.16	42.525		
10,800.00	7,730.00	8,171.00	7,970.48	49.83	36.78	96.02	1,638.24	-144.21	3,394.07	3,316.09	77.99	43.522		
10,900.00	7,730.00	8,171.00	7,970.48	50.31	36.78	96.02	1,638.24	-144.21	3,465.82	3,388.00	77.81	44.540		
11,000.00	7,730.00	8,171.00	7,970.48	50.96	36.78	96.02	1,638.24	-144.21	3,538.94	3,461.29	77.65	45.577		
11,100.00	7,730.00	8,171.00	7,970.48	51.75	36.78	96.02	1,638.24	-144.21	3,613.35	3,535.86	77.48	46.634		
11,200.00	7,730.00	8,171.00	7,970.48	52.66	36.78	96.02	1,638.24	-144.21	3,688.96	3,611.64	77.33	47.707		
11,300.00	7,730.00	8,171.00	7,970.48	53.67	36.78	96.02	1,638.24	-144.21	3,765.72	3,688.55	77.17	48.796		
11,400.00	7,730.00	8,171.00	7,970.48	54.75	36.78	96.02	1,638.24	-144.21	3,843.54	3,766.52	77.02	49.901		
11,500.00	7,730.00	8,202.61	8,001.97	55.89	36.85	96.77	1,636.54	-142.13	3,921.90	3,844.99	76.91	50.992		
11,600.00	7,730.00	8,203.83	8,003.19	57.07	36.86	96.80	1,636.48	-142.06	4,001.64	3,924.87	76.78	52.122		
11,700.00	7,730.00	8,205.02	8,004.38	58.30	36.86	96.83	1,636.43	-141.99	4,082.28	4,005.63	76.64	53.263		
11,800.00	7,730.00	8,206.18	8,005.53	59.55	36.86	96.86	1,636.38	-141.92	4,163.75	4,087.23	76.52	54.416		
11,900.00	7,730.00	8,207.30	8,006.65	60.84	36.87	96.89	1,636.33	-141.86	4,246.01	4,169.62	76.39	55.580		
12,000.00	7,730.00	8,208.40	8,007.75	62.15	36.87	96.91	1,636.28	-141.80	4,329.02	4,252.74	76.28	56.753		
12,100.00	7,730.00	8,209.47	8,008.82	63.49	36.87	96.94	1,636.24	-141.74	4,412.73	4,336.56	76.17	57.935		
12,200.00	7,730.00	8,210.52	8,009.86	64.85	36.87	96.96	1,636.19	-141.68	4,497.11	4,421.05	76.06	59.126		
12,300.00	7,730.00	8,211.54	8,010.88	66.22	36.87	96.99	1,636.15	-141.62	4,582.11	4,506.15	75.96	60.325		
12,400.00	7,730.00	8,212.53	8,011.87	67.62	36.88	97.01	1,636.11	-141.57	4,667.71	4,591.85	75.86	61.531		
12,500.00	7,730.00	8,213.50	8,012.84	69.03	36.88	97.03	1,636.07	-141.52	4,753.87	4,678.10	75.77	62.743		
12,600.00	7,730.00	8,214.45	8,013.78	70.45	36.88	97.06	1,636.03	-141.47	4,840.56	4,764.88	75.68	63.962		
12,700.00	7,730.00	8,215.37	8,014.70	71.90	36.88	97.08	1,635.99	-141.42	4,927.75	4,852.16	75.59	65.187		
12,800.00	7,730.00	8,216.28	8,015.61	73.35	36.89	97.10	1,635.96	-141.37	5,015.42	4,939.91	75.51	66.417		
12,900.00	7,730.00	8,217.16	8,016.49	74.81	36.89	97.12	1,635.92	-141.33	5,103.55	5,028.11	75.44	67.652		
13,000.00	7,730.00	8,218.02	8,017.35	76.29	36.89	97.14	1,635.89	-141.28	5,192.10	5,116.74	75.37	68.892		
13,100.00	7,730.00	8,218.87	8,018.19	77.78	36.89	97.16	1,635.86	-141.24	5,281.06	5,205.77	75.30	70.136		
13,200.00	7,730.00	8,219.69	8,019.01	79.28	36.89	97.18	1,635.83	-141.20	5,370.41	5,295.18	75.23	71.384		
13,300.00	7,730.00	8,220.50	8,019.82	80.79	36.90	97.20	1,635.80	-141.16	5,460.13	5,384.96	75.17	72.636		
13,400.00	7,730.00	8,221.29	8,020.61	82.31	36.90	97.22	1,635.77	-141.12	5,550.20	5,475.09	75.11	73.891		
13,500.00	7,730.00	8,222.06	8,021.38	83.84	36.90	97.24	1,635.74	-141.08	5,640.60	5,565.55	75.06	75.150		
13,600.00	7,730.00	8,222.81	8,022.13	85.37	36.90	97.26	1,635.71	-141.04	5,731.33	5,656.32	75.01	76.411		
13,700.00	7,730.00	8,223.56	8,022.87	86.92	36.90	97.27	1,635.69	-141.01	5,822.35	5,747.39	74.96	77.675		
13,800.00	7,730.00	8,224.28	8,023.60	88.47	36.90	97.29	1,635.66	-140.97	5,913.67	5,838.75	74.91	78.941		
13,900.00	7,730.00	8,224.99	8,024.30	90.03	36.91	97.31	1,635.64	-140.94	6,005.26	5,930.39	74.87	80.209		
14,000.00	7,730.00	8,225.69	8,025.00	91.59	36.91	97.33	1,635.61	-140.90	6,097.11	6,022.28	74.83	81.479		
14,100.00	7,730.00	8,226.37	8,025.68	93.16	36.91	97.34	1,635.59	-140.87	6,189.22	6,114.43	74.79	82.751		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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
14,200.00	7,730.00	8,227.03	8,026.35	94.74	36.91	97.36	1,635.57	-140.84	6,281.57	6,206.81	74.76	84.024	
14,300.00	7,730.00	8,227.69	8,027.00	96.33	36.91	97.37	1,635.55	-140.81	6,374.15	6,299.42	74.73	85.299	
14,400.00	7,730.00	8,264.00	8,063.27	97.92	36.99	98.24	1,634.67	-139.43	6,467.45	6,392.73	74.73	86.549	
14,500.00	7,730.00	8,264.00	8,063.27	99.51	36.99	98.24	1,634.67	-139.43	6,560.44	6,485.74	74.70	87.826	
14,600.00	7,730.00	8,264.00	8,063.27	101.11	36.99	98.24	1,634.67	-139.43	6,653.64	6,578.96	74.67	89.104	
14,700.00	7,730.00	8,264.00	8,063.27	102.72	36.99	98.24	1,634.67	-139.43	6,747.03	6,672.38	74.65	90.382	
14,800.00	7,730.00	8,264.00	8,063.27	104.33	36.99	98.24	1,634.67	-139.43	6,840.60	6,765.97	74.63	91.661	
14,900.00	7,730.00	8,264.00	8,063.27	105.94	36.99	98.24	1,634.67	-139.43	6,934.36	6,859.75	74.61	92.941	
15,000.00	7,730.00	8,264.00	8,063.27	107.56	36.99	98.24	1,634.67	-139.43	7,028.28	6,953.69	74.59	94.221	
15,100.00	7,730.00	8,264.00	8,063.27	109.18	36.99	98.24	1,634.67	-139.43	7,122.38	7,047.80	74.58	95.502	
15,200.00	7,730.00	8,264.00	8,063.27	110.81	36.99	98.24	1,634.67	-139.43	7,216.63	7,142.06	74.57	96.782	
15,300.00	7,730.00	8,264.00	8,063.27	112.44	36.99	98.24	1,634.67	-139.43	7,311.03	7,236.48	74.55	98.062	
15,400.00	7,730.00	8,264.00	8,063.27	114.08	36.99	98.24	1,634.67	-139.43	7,405.58	7,331.04	74.55	99.343	
15,500.00	7,730.00	8,264.00	8,063.27	115.72	36.99	98.24	1,634.67	-139.43	7,500.28	7,425.74	74.54	100.623	
15,600.00	7,730.00	8,264.00	8,063.27	117.36	36.99	98.24	1,634.67	-139.43	7,595.10	7,520.57	74.53	101.903	
15,700.00	7,730.00	8,264.00	8,063.27	119.00	36.99	98.24	1,634.67	-139.43	7,690.06	7,615.53	74.53	103.182	
15,800.00	7,730.00	8,264.00	8,063.27	120.65	36.99	98.24	1,634.67	-139.43	7,785.15	7,710.62	74.53	104.461	
15,900.00	7,730.00	8,264.00	8,063.27	122.30	36.99	98.24	1,634.67	-139.43	7,880.36	7,805.83	74.53	105.739	
16,000.00	7,730.00	8,264.00	8,063.27	123.96	36.99	98.24	1,634.67	-139.43	7,975.68	7,901.15	74.53	107.017	
16,100.00	7,730.00	8,264.00	8,063.27	125.61	36.99	98.24	1,634.67	-139.43	8,071.12	7,996.59	74.53	108.294	
16,200.00	7,730.00	8,264.00	8,063.27	127.27	36.99	98.24	1,634.67	-139.43	8,166.67	8,092.13	74.53	109.570	
16,300.00	7,730.00	8,264.00	8,063.27	128.94	36.99	98.24	1,634.67	-139.43	8,262.32	8,187.78	74.54	110.845	
16,400.00	7,730.00	8,264.00	8,063.27	130.60	36.99	98.24	1,634.67	-139.43	8,358.07	8,283.53	74.55	112.120	
16,500.00	7,730.00	8,264.00	8,063.27	132.27	36.99	98.24	1,634.67	-139.43	8,453.93	8,379.37	74.55	113.393	
16,600.00	7,730.00	8,264.00	8,063.27	133.94	36.99	98.24	1,634.67	-139.43	8,549.87	8,475.31	74.56	114.665	
16,700.00	7,730.00	8,264.00	8,063.27	135.61	36.99	98.24	1,634.67	-139.43	8,645.91	8,571.34	74.58	115.936	
16,800.00	7,730.00	8,264.00	8,063.27	137.28	36.99	98.24	1,634.67	-139.43	8,742.04	8,667.45	74.59	117.205	
16,900.00	7,730.00	8,264.00	8,063.27	138.96	36.99	98.24	1,634.67	-139.43	8,838.25	8,763.65	74.60	118.474	
17,000.00	7,730.00	8,264.00	8,063.27	140.64	36.99	98.24	1,634.67	-139.43	8,934.55	8,859.94	74.62	119.741	
17,100.00	7,730.00	8,264.00	8,063.27	142.32	36.99	98.24	1,634.67	-139.43	9,030.93	8,956.30	74.63	121.006	
17,200.00	7,730.00	8,264.00	8,063.27	144.00	36.99	98.24	1,634.67	-139.43	9,127.39	9,052.74	74.65	122.270	
17,300.00	7,730.00	8,264.00	8,063.27	145.69	36.99	98.24	1,634.67	-139.43	9,223.92	9,149.25	74.67	123.533	
17,400.00	7,730.00	8,264.00	8,063.27	147.37	36.99	98.24	1,634.67	-139.43	9,320.52	9,245.83	74.69	124.794	
17,500.00	7,730.00	8,264.00	8,063.27	149.06	36.99	98.24	1,634.67	-139.43	9,417.20	9,342.49	74.71	126.053	
17,600.00	7,730.00	8,264.00	8,063.27	150.75	36.99	98.24	1,634.67	-139.43	9,513.94	9,439.21	74.73	127.310	
17,700.00	7,730.00	8,264.00	8,063.27	152.44	36.99	98.24	1,634.67	-139.43	9,610.75	9,536.00	74.75	128.566	
17,800.00	7,730.00	8,264.00	8,063.27	154.13	36.99	98.24	1,634.67	-139.43	9,707.63	9,632.85	74.78	129.820	
17,900.00	7,730.00	8,264.00	8,063.27	155.83	36.99	98.24	1,634.67	-139.43	9,804.56	9,729.76	74.80	131.072	
18,000.00	7,730.00	8,264.00	8,063.27	157.52	36.99	98.24	1,634.67	-139.43	9,901.56	9,826.73	74.83	132.323	
18,100.00	7,730.00	8,264.00	8,063.27	159.22	36.99	98.24	1,634.67	-139.43	9,998.62	9,923.76	74.86	133.571	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-14.12	218.21	-54.88	225.23				
100.00	100.00	89.75	89.75	0.13	0.14	-14.17	218.21	-55.08	225.05	224.78	0.28	815.845	
200.00	200.00	190.45	190.45	0.49	0.47	-14.31	218.06	-55.62	225.05	224.09	0.96	234.426	
300.00	300.00	293.16	293.16	0.85	0.83	-14.51	217.13	-56.20	224.31	222.63	1.68	133.165	
400.00	400.00	402.12	402.03	1.21	1.22	-14.82	213.18	-56.40	220.84	218.41	2.43	90.700	
500.00	500.00	509.94	509.53	1.57	1.62	-15.50	204.96	-56.83	213.59	210.40	3.18	67.115	
600.00	600.00	617.54	616.37	1.93	2.04	-16.66	192.34	-57.57	202.50	198.57	3.93	51.527	
700.00	700.00	726.75	724.18	2.29	2.50	-17.98	174.95	-56.76	187.08	182.40	4.68	39.972	
800.00	800.00	831.93	826.98	2.64	2.98	-19.93	152.79	-55.38	166.67	161.25	5.42	30.773	
900.00	900.00	932.62	924.61	3.00	3.49	-22.94	128.18	-54.25	143.42	137.27	6.16	23.296	
1,000.00	1,000.00	1,030.34	1,018.79	3.36	4.00	-27.82	102.16	-53.92	119.05	112.13	6.92	17.194	
1,100.00	1,100.00	1,127.76	1,112.40	3.72	4.54	-35.63	75.17	-53.88	95.16	87.40	7.76	12.256	
1,200.00	1,200.00	1,223.91	1,204.37	4.08	5.10	-48.92	47.13	-54.07	73.15	64.38	8.77	8.346	
1,300.00	1,299.98	1,319.85	1,295.99	4.43	5.66	-119.69	18.68	-53.89	58.19	48.20	9.98	5.828	
1,344.31	1,344.25	1,362.00	1,336.20	4.59	5.91	-133.52	6.04	-53.37	56.18	45.69	10.50	5.353 CC, ES, SF	
1,400.00	1,399.84	1,414.33	1,385.99	4.79	6.23	-151.33	-10.06	-52.57	59.68	48.74	10.94	5.453	
1,500.00	1,499.45	1,507.45	1,474.43	5.15	6.81	-175.58	-39.12	-50.96	81.28	69.92	11.36	7.153	
1,600.00	1,598.70	1,598.81	1,561.26	5.51	7.38	171.40	-67.51	-49.34	114.45	102.64	11.82	9.687	
1,700.00	1,697.47	1,690.92	1,648.69	5.89	7.95	164.12	-96.43	-47.41	153.88	141.47	12.42	12.394	
1,800.00	1,795.62	1,782.66	1,736.09	6.28	8.52	159.97	-124.22	-44.94	196.29	183.19	13.10	14.989	
1,900.00	1,893.06	1,872.25	1,821.56	6.69	9.07	157.44	-150.91	-42.08	241.44	227.64	13.80	17.499	
2,000.00	1,989.64	1,965.07	1,910.25	7.13	9.63	155.74	-178.05	-38.61	288.96	274.39	14.57	19.835	
2,100.00	2,085.27	2,057.33	1,998.95	7.61	10.17	154.76	-203.15	-34.81	337.47	322.11	15.35	21.980	
2,200.00	2,179.82	2,143.51	2,082.06	8.12	10.67	154.25	-225.71	-31.56	388.01	371.91	16.10	24.100	
2,300.00	2,273.17	2,228.96	2,164.53	8.67	11.16	154.06	-247.95	-29.16	441.46	424.60	16.86	26.185	
2,400.00	2,365.21	2,310.60	2,243.52	9.27	11.62	154.08	-268.52	-27.62	497.21	479.61	17.60	28.251	
2,500.00	2,455.84	2,385.15	2,315.60	9.92	12.04	154.21	-287.56	-27.41	556.40	538.11	18.29	30.423	
2,580.62	2,527.80	2,444.97	2,373.43	10.49	12.38	154.41	-302.85	-28.26	606.48	587.63	18.85	32.173	
2,600.00	2,544.97	2,459.09	2,387.08	10.63	12.45	154.60	-306.44	-28.60	618.77	599.79	18.99	32.591	
2,700.00	2,633.58	2,538.88	2,464.31	11.37	12.90	155.63	-326.33	-31.09	682.15	662.42	19.72	34.585	
2,800.00	2,722.19	2,618.21	2,541.16	12.13	13.33	156.48	-345.86	-33.36	745.32	724.86	20.46	36.427	
2,900.00	2,810.80	2,696.52	2,616.86	12.91	13.78	157.00	-365.91	-33.71	808.37	787.18	21.20	38.137	
3,000.00	2,899.41	2,769.06	2,686.83	13.71	14.20	157.31	-385.04	-33.07	871.52	849.64	21.89	39.817	
3,100.00	2,988.02	2,833.74	2,748.96	14.52	14.58	157.51	-403.01	-32.30	935.55	913.04	22.51	41.557	
3,200.00	3,076.63	2,929.71	2,841.02	15.34	15.15	157.67	-429.97	-29.95	999.36	975.91	23.45	42.622	
3,300.00	3,165.24	3,001.92	2,910.35	16.16	15.58	157.75	-450.06	-27.49	1,062.62	1,038.46	24.16	43.981	
3,400.00	3,253.85	3,068.93	2,974.56	17.00	15.99	157.80	-469.07	-25.37	1,126.36	1,101.53	24.83	45.363	
3,500.00	3,342.46	3,133.58	3,036.32	17.84	16.39	157.84	-488.11	-23.40	1,190.90	1,165.42	25.48	46.744	
3,600.00	3,431.07	3,198.68	3,098.43	18.69	16.79	157.90	-507.53	-22.21	1,256.14	1,230.01	26.13	48.072	
3,700.00	3,519.68	3,291.42	3,187.12	19.55	17.36	158.04	-534.64	-21.40	1,321.35	1,294.29	27.06	48.839	
3,800.00	3,608.29	3,382.55	3,274.57	20.40	17.90	158.17	-560.23	-20.05	1,385.50	1,357.54	27.96	49.552	
3,900.00	3,696.90	3,457.41	3,346.41	21.26	18.35	158.23	-581.23	-18.16	1,449.26	1,420.54	28.72	50.469	
4,000.00	3,785.51	3,519.67	3,406.00	22.13	18.74	158.25	-599.16	-16.34	1,513.41	1,484.05	29.35	51.559	
4,100.00	3,874.12	3,573.11	3,456.98	23.00	19.07	158.27	-615.14	-15.17	1,578.59	1,548.68	29.90	52.790	
4,200.00	3,962.73	3,632.37	3,513.38	23.87	19.44	158.31	-633.30	-14.61	1,644.72	1,614.21	30.51	53.913	
4,300.00	4,051.34	3,697.44	3,575.34	24.74	19.85	158.41	-653.17	-15.25	1,711.47	1,680.30	31.17	54.914	
4,400.00	4,139.95	3,777.00	3,651.20	25.62	20.35	158.54	-677.11	-16.72	1,778.26	1,746.29	31.97	55.627	
4,500.00	4,228.56	3,862.98	3,733.32	26.49	20.88	158.69	-702.54	-18.29	1,844.69	1,811.86	32.83	56.189	
4,600.00	4,317.17	3,948.26	3,814.84	27.37	21.40	158.81	-727.53	-19.28	1,910.70	1,877.01	33.69	56.717	
4,700.00	4,405.78	4,052.08	3,914.27	28.25	22.03	158.92	-757.43	-19.46	1,976.00	1,941.27	34.73	56.898	
4,800.00	4,494.39	4,174.99	4,032.64	29.13	22.75	159.04	-790.49	-18.41	2,039.45	2,003.52	35.94	56.752	
4,900.00	4,583.00	4,244.77	4,100.04	30.02	23.15	159.13	-808.58	-18.14	2,102.55	2,065.91	36.64	57.383	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,292.89	4,146.46	30.90	23.43	159.20	-821.26	-18.45	2,166.34	2,129.20	37.14	58.330		
5,100.00	4,760.22	4,345.06	4,196.65	31.79	23.73	159.28	-835.44	-19.38	2,231.11	2,193.44	37.67	59.224		
5,200.00	4,848.83	4,428.40	4,276.82	32.67	24.22	159.41	-858.10	-21.27	2,296.12	2,257.62	38.50	59.644		
5,300.00	4,937.44	4,482.18	4,328.53	33.56	24.54	159.50	-872.82	-22.64	2,361.36	2,322.31	39.04	60.481		
5,400.00	5,026.05	4,540.12	4,384.09	34.45	24.88	159.58	-889.17	-24.33	2,427.29	2,387.66	39.63	61.251		
5,500.00	5,114.66	4,613.79	4,454.63	35.34	25.33	159.67	-910.35	-26.18	2,493.46	2,453.09	40.37	61.765		
5,600.00	5,203.27	4,779.85	4,613.97	36.23	26.32	159.78	-957.07	-26.61	2,558.42	2,516.41	42.00	60.908		
5,700.00	5,291.88	4,976.35	4,804.83	37.12	27.39	159.97	-1,003.72	-25.15	2,619.53	2,575.71	43.82	59.776		
5,800.00	5,380.50	5,115.39	4,940.62	38.01	28.10	160.08	-1,033.35	-21.73	2,678.62	2,633.52	45.10	59.398		
5,900.00	5,469.11	5,900.00	5,432.81	38.90	30.63	161.37	-1,084.28	-23.58	2,733.22	2,684.08	49.14	55.620		
6,000.00	5,557.72	5,748.42	5,570.26	39.79	30.23	161.80	-1,084.56	-21.88	2,777.01	2,727.79	49.22	56.421		
6,100.00	5,646.33	5,841.16	5,662.99	40.68	30.43	162.09	-1,084.17	-20.94	2,820.74	2,770.80	49.94	56.480		
6,200.00	5,734.94	5,922.24	5,744.07	41.58	30.60	162.34	-1,083.77	-20.38	2,864.62	2,814.00	50.61	56.597		
6,300.00	5,823.55	6,010.83	5,832.66	42.47	30.79	162.61	-1,083.38	-19.90	2,908.65	2,857.34	51.31	56.683		
6,400.00	5,912.16	6,100.80	5,922.62	43.36	30.98	162.88	-1,082.94	-19.46	2,952.73	2,900.71	52.02	56.764		
6,500.00	6,000.77	6,188.75	6,010.57	44.26	31.17	163.13	-1,082.39	-19.20	2,996.85	2,944.14	52.71	56.857		
6,600.00	6,089.38	6,271.92	6,093.74	45.15	31.34	163.37	-1,081.83	-19.18	3,041.11	2,987.74	53.38	56.975		
6,700.00	6,177.99	6,348.24	6,170.06	46.05	31.51	163.59	-1,081.40	-19.44	3,085.67	3,031.66	54.01	57.127		
6,800.00	6,266.60	6,440.74	6,262.56	46.94	31.71	163.85	-1,081.00	-19.93	3,130.47	3,075.75	54.72	57.210		
6,900.00	6,355.21	6,533.67	6,375.48	47.84	31.96	164.16	-1,080.12	-20.15	3,174.91	3,119.40	55.51	57.196		
7,000.00	6,443.82	6,627.77	6,449.58	48.74	32.13	164.35	-1,079.48	-20.21	3,219.25	3,163.12	56.14	57.346		
7,100.00	6,532.43	6,728.52	6,550.33	49.63	32.35	164.61	-1,078.60	-20.44	3,263.73	3,206.85	56.88	57.381		
7,200.00	6,621.04	6,832.35	6,654.14	50.53	32.58	164.87	-1,077.27	-20.41	3,307.80	3,250.17	57.63	57.394		
7,300.00	6,709.65	6,918.20	6,739.99	51.42	32.77	165.07	-1,076.31	-19.93	3,351.77	3,293.45	58.32	57.474		
7,400.00	6,798.26	7,024.39	6,846.16	52.32	33.02	165.30	-1,075.39	-18.55	3,395.60	3,336.50	59.10	57.453		
7,500.00	6,886.87	7,101.28	6,923.05	53.22	33.21	165.45	-1,074.90	-17.24	3,439.41	3,379.65	59.76	57.552		
7,600.00	6,975.48	7,174.55	6,996.31	54.12	33.39	165.60	-1,074.65	-16.14	3,483.58	3,423.18	60.41	57.670		
7,656.30	7,025.36	7,216.16	7,037.91	54.62	33.50	165.68	-1,074.58	-15.69	3,508.65	3,447.88	60.77	57.739		
7,700.00	7,064.54	7,250.73	7,072.48	55.00	33.58	165.74	-1,074.53	-15.41	3,526.96	3,465.90	61.06	57.764		
7,750.00	7,110.29	7,291.00	7,112.75	55.40	33.68	166.44	-1,074.46	-15.20	3,544.90	3,483.50	61.39	57.740		
7,800.00	7,156.67	7,325.67	7,147.42	55.75	33.77	166.83	-1,074.42	-15.13	3,559.56	3,497.85	61.70	57.689		
7,850.00	7,203.34	7,359.21	7,180.96	56.05	33.86	167.40	-1,074.49	-15.13	3,570.91	3,508.91	62.00	57.595		
7,900.00	7,249.95	7,394.28	7,216.03	56.30	33.95	167.45	-1,074.66	-15.22	3,578.90	3,516.60	62.30	57.447		
7,950.00	7,296.14	7,459.79	7,281.54	56.50	34.13	167.34	-1,075.06	-15.10	3,583.27	3,520.52	62.75	57.105		
8,000.00	7,341.56	7,513.72	7,335.46	56.64	34.28	167.35	-1,075.43	-14.55	3,583.88	3,520.74	63.13	56.767		
8,050.00	7,385.86	7,559.79	7,381.52	56.74	34.41	167.45	-1,075.87	-13.84	3,580.92	3,517.45	63.47	56.421		
8,100.00	7,428.71	7,598.96	7,420.69	56.79	34.52	167.33	-1,076.34	-13.10	3,574.50	3,510.74	63.76	56.062		
8,150.00	7,469.77	7,632.94	7,454.65	56.80	34.62	167.67	-1,076.84	-12.46	3,564.77	3,500.75	64.02	55.686		
8,200.00	7,508.75	7,665.34	7,487.04	56.77	34.71	169.19	-1,077.40	-11.86	3,551.85	3,487.59	64.26	55.276		
8,250.00	7,545.33	7,695.03	7,516.72	56.70	34.80	167.70	-1,077.96	-11.34	3,535.86	3,471.38	64.48	54.837		
8,300.00	7,579.25	7,722.40	7,544.08	56.59	34.88	167.03	-1,078.49	-10.94	3,516.96	3,452.28	64.69	54.370		
8,350.00	7,610.24	7,747.48	7,569.16	56.45	34.95	167.09	-1,078.99	-10.63	3,495.31	3,430.43	64.88	53.874		
8,400.00	7,638.06	7,766.00	7,587.68	56.28	35.01	167.76	-1,079.37	-10.44	3,471.09	3,406.05	65.04	53.370		
8,450.00	7,662.52	7,784.87	7,606.54	56.09	35.06	169.09	-1,079.78	-10.30	3,444.51	3,379.31	65.20	52.827		
8,500.00	7,683.41	7,798.40	7,620.06	55.88	35.11	170.98	-1,080.09	-10.24	3,415.79	3,350.44	65.34	52.274		
8,550.00	7,700.59	7,809.69	7,631.36	55.64	35.14	173.47	-1,080.36	-10.21	3,385.13	3,319.65	65.48	51.696		
8,600.00	7,713.91	7,818.67	7,640.34	55.39	35.17	176.54	-1,080.58	-10.21	3,352.76	3,287.14	65.62	51.096		
8,650.00	7,723.29	7,825.26	7,646.92	55.14	35.19	180.20	-1,080.75	-10.21	3,318.91	3,253.15	65.75	50.475		
8,700.00	7,728.64	7,829.38	7,651.04	54.87	35.20	184.43	-1,080.86	-10.22	3,283.81	3,217.92	65.89	49.837		
8,740.83	7,730.00	7,830.89	7,652.55	54.65	35.20	188.27	-1,080.90	-10.22	3,254.40	3,188.40	66.01	49.305		
8,800.00	7,730.00	7,831.87	7,653.52	54.33	35.21	188.29	-1,080.92	-10.22	3,211.63	3,145.45	66.18	48.531		
8,900.00	7,730.00	7,833.53	7,655.18	53.82	35.21	188.34	-1,080.97	-10.23	3,140.54	3,074.05	66.49	47.230		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,835.20	7,656.86	53.33	35.22	88.38	-1,081.01	-10.23	3,071.06	3,004.21	66.85	45.939		
9,100.00	7,730.00	7,836.90	7,658.56	52.87	35.22	88.42	-1,081.06	-10.24	3,003.31	2,936.06	67.25	44.660		
9,200.00	7,730.00	7,838.62	7,660.27	52.44	35.23	88.47	-1,081.10	-10.25	2,937.39	2,869.70	67.69	43.395		
9,300.00	7,730.00	7,840.35	7,662.00	52.03	35.23	88.51	-1,081.15	-10.25	2,873.44	2,805.26	68.18	42.146		
9,400.00	7,730.00	7,842.10	7,663.76	51.65	35.24	88.56	-1,081.20	-10.26	2,811.59	2,742.88	68.71	40.917		
9,500.00	7,730.00	7,843.88	7,665.53	51.29	35.24	88.60	-1,081.25	-10.27	2,751.99	2,682.69	69.30	39.711		
9,600.00	7,730.00	7,845.67	7,667.32	50.95	35.25	88.65	-1,081.30	-10.28	2,694.78	2,624.84	69.94	38.532		
9,700.00	7,730.00	7,847.48	7,669.13	50.64	35.25	88.69	-1,081.35	-10.29	2,640.11	2,569.49	70.62	37.384		
9,800.00	7,730.00	7,849.32	7,670.97	50.35	35.26	88.74	-1,081.40	-10.30	2,588.15	2,516.79	71.36	36.270		
9,900.00	7,730.00	7,850.00	7,680.65	50.09	35.29	88.99	-1,081.67	-10.36	2,539.09	2,466.88	72.21	35.161		
10,000.00	7,730.00	7,859.00	7,680.65	49.86	35.29	88.99	-1,081.67	-10.36	2,493.04	2,420.02	73.03	34.139		
10,100.00	7,730.00	7,859.00	7,680.65	49.65	35.29	88.99	-1,081.67	-10.36	2,450.22	2,376.34	73.88	33.166		
10,200.00	7,730.00	7,859.00	7,680.65	49.48	35.29	88.99	-1,081.67	-10.36	2,410.78	2,336.01	74.77	32.245		
10,300.00	7,730.00	7,859.00	7,680.65	49.35	35.29	88.99	-1,081.67	-10.36	2,374.90	2,299.22	75.68	31.381		
10,400.00	7,730.00	7,859.00	7,680.65	49.27	35.29	88.99	-1,081.67	-10.36	2,342.74	2,266.13	76.61	30.579		
10,500.00	7,730.00	7,859.00	7,680.65	49.26	35.29	88.99	-1,081.67	-10.36	2,314.46	2,236.90	77.56	29.842		
10,600.00	7,730.00	7,859.00	7,680.65	49.32	35.29	88.99	-1,081.67	-10.36	2,290.20	2,211.70	78.50	29.173		
10,700.00	7,730.00	7,859.00	7,680.65	49.51	35.29	88.99	-1,081.67	-10.36	2,270.09	2,190.66	79.44	28.577		
10,800.00	7,730.00	7,859.00	7,680.65	49.83	35.29	88.99	-1,081.67	-10.36	2,254.25	2,173.89	80.35	28.054		
10,900.00	7,730.00	7,859.00	7,680.65	50.31	35.29	88.99	-1,081.67	-10.36	2,242.75	2,161.51	81.23	27.608		
11,000.00	7,730.00	7,871.25	7,692.89	50.96	35.33	89.30	-1,082.03	-10.47	2,235.61	2,153.42	82.19	27.200		
11,100.00	7,730.00	7,873.10	7,694.74	51.75	35.33	89.35	-1,082.08	-10.49	2,232.98	2,149.98	83.00	26.904		
11,108.94	7,730.00	7,873.26	7,694.90	51.83	35.33	89.36	-1,082.09	-10.49	2,232.96	2,149.89	83.07	26.881		
11,200.00	7,730.00	7,874.95	7,696.59	52.66	35.34	89.40	-1,082.14	-10.51	2,234.81	2,151.07	83.74	26.687		
11,300.00	7,730.00	7,876.83	7,698.47	53.67	35.34	89.45	-1,082.20	-10.54	2,241.11	2,156.69	84.42	26.547		
11,400.00	7,730.00	7,878.73	7,700.36	54.75	35.35	89.50	-1,082.25	-10.56	2,251.84	2,166.81	85.03	26.484		
11,500.00	7,730.00	7,880.64	7,702.28	55.89	35.36	89.55	-1,082.31	-10.58	2,266.92	2,181.37	85.56	26.496		
11,600.00	7,730.00	7,882.57	7,704.21	57.07	35.36	89.59	-1,082.37	-10.61	2,286.29	2,200.27	86.01	26.581		
11,700.00	7,730.00	7,884.52	7,706.16	58.30	35.37	89.64	-1,082.43	-10.64	2,309.82	2,223.43	86.39	26.737		
11,800.00	7,730.00	7,886.49	7,708.12	59.55	35.37	89.70	-1,082.49	-10.67	2,337.39	2,250.70	86.69	26.961		
11,900.00	7,730.00	7,888.48	7,710.11	60.84	35.38	89.75	-1,082.55	-10.70	2,368.86	2,281.94	86.93	27.252		
12,000.00	7,730.00	7,890.49	7,712.12	62.15	35.39	89.80	-1,082.61	-10.73	2,404.09	2,317.00	87.09	27.605		
12,100.00	7,730.00	7,892.52	7,714.15	63.49	35.39	89.85	-1,082.68	-10.76	2,442.89	2,355.70	87.19	28.018		
12,200.00	7,730.00	7,894.57	7,716.20	64.85	35.40	89.90	-1,082.74	-10.80	2,485.12	2,397.89	87.23	28.488		
12,300.00	7,730.00	7,896.64	7,718.27	66.22	35.40	89.96	-1,082.81	-10.83	2,530.59	2,443.37	87.22	29.012		
12,400.00	7,730.00	7,898.73	7,720.36	67.62	35.41	90.01	-1,082.87	-10.87	2,579.14	2,491.97	87.17	29.587		
12,500.00	7,730.00	7,900.85	7,722.47	69.03	35.42	90.06	-1,082.94	-10.91	2,630.59	2,543.51	87.08	30.210		
12,600.00	7,730.00	7,902.98	7,724.60	70.45	35.42	90.12	-1,083.01	-10.95	2,684.78	2,597.83	86.95	30.879		
12,700.00	7,730.00	7,905.14	7,726.76	71.90	35.43	90.17	-1,083.08	-10.99	2,741.54	2,654.76	86.79	31.589		
12,800.00	7,730.00	7,907.32	7,728.93	73.35	35.44	90.23	-1,083.15	-11.04	2,800.73	2,714.12	86.60	32.339		
12,900.00	7,730.00	7,909.52	7,731.13	74.81	35.44	90.29	-1,083.22	-11.08	2,862.18	2,775.78	86.40	33.127		
13,000.00	7,730.00	7,911.74	7,733.36	76.29	35.45	90.34	-1,083.29	-11.13	2,925.75	2,839.57	86.18	33.949		
13,100.00	7,730.00	7,913.99	7,735.60	77.78	35.46	90.40	-1,083.37	-11.18	2,991.32	2,905.37	85.95	34.803		
13,200.00	7,730.00	7,916.26	7,737.87	79.28	35.46	90.46	-1,083.44	-11.23	3,058.75	2,973.04	85.71	35.688		
13,300.00	7,730.00	7,918.56	7,740.17	80.79	35.47	90.52	-1,083.52	-11.29	3,127.92	3,042.46	85.46	36.601		
13,400.00	7,730.00	7,920.88	7,742.49	82.31	35.48	90.58	-1,083.59	-11.34	3,198.72	3,113.51	85.21	37.541		
13,500.00	7,730.00	7,923.22	7,744.83	83.84	35.49	90.64	-1,083.67	-11.40	3,271.04	3,186.09	84.95	38.505		
13,600.00	7,730.00	7,925.59	7,747.20	85.37	35.49	90.70	-1,083.75	-11.46	3,344.78	3,260.09	84.70	39.491		
13,700.00	7,730.00	7,927.99	7,749.59	86.92	35.50	90.76	-1,083.83	-11.52	3,419.86	3,335.42	84.44	40.499		
13,800.00	7,730.00	7,930.41	7,752.01	88.47	35.51	90.82	-1,083.92	-11.59	3,496.18	3,411.99	84.19	41.527		
13,900.00	7,730.00	7,932.86	7,754.46	90.03	35.52	90.88	-1,084.00	-11.66	3,573.67	3,489.73	83.94	42.573		
14,000.00	7,730.00	7,935.34	7,756.93	91.59	35.52	90.95	-1,084.08	-11.73	3,652.25	3,568.56	83.70	43.637		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,937.84	7,759.43	93.16	35.53	91.01	-1,084.17	-11.80	3,731.86	3,648.40	83.46	44.716		
14,200.00	7,730.00	7,940.37	7,761.96	94.74	35.54	91.08	-1,084.26	-11.87	3,812.42	3,729.20	83.22	45.810		
14,300.00	7,730.00	14,300.00	7,815.77	96.33	55.74	92.45	-1,086.34	-12.84	3,893.68	3,789.33	104.35	37.314		
14,400.00	7,730.00	14,400.00	7,819.73	97.92	56.06	92.55	-1,086.49	-12.89	3,975.94	3,871.47	104.47	38.059		
14,500.00	7,730.00	14,500.00	7,823.69	99.51	56.38	92.66	-1,086.65	-12.95	4,058.99	3,954.40	104.59	38.808		
14,600.00	7,730.00	14,600.00	7,827.65	101.11	56.70	92.76	-1,086.81	-13.00	4,142.79	4,038.07	104.72	39.560		
14,700.00	7,730.00	8,099.90	7,921.33	102.72	36.05	95.15	-1,090.82	-13.00	4,227.31	4,144.64	82.67	51.133		
14,800.00	7,730.00	8,112.43	7,933.85	104.33	36.09	95.47	-1,091.41	-12.81	4,312.37	4,229.87	82.50	52.273		
14,900.00	7,730.00	8,125.42	7,946.82	105.94	36.14	95.80	-1,092.04	-12.58	4,398.05	4,315.72	82.33	53.421		
15,000.00	7,730.00	8,138.90	7,960.28	107.56	36.18	96.14	-1,092.70	-12.31	4,484.30	4,402.14	82.17	54.575		
15,100.00	7,730.00	8,159.64	7,980.99	109.18	36.25	96.66	-1,093.74	-11.82	4,571.10	4,489.07	82.03	55.722		
15,200.00	7,730.00	15,200.00	7,940.24	110.81	59.52	95.63	-1,091.77	-12.57	4,658.40	4,552.82	105.58	44.123		
15,300.00	7,730.00	8,206.93	8,028.19	112.44	36.41	97.86	-1,096.26	-10.40	4,746.18	4,664.38	81.80	58.024		
15,400.00	7,730.00	8,233.86	8,055.05	114.08	36.50	98.54	-1,097.77	-9.39	4,834.40	4,752.71	81.69	59.177		
15,500.00	7,730.00	15,500.00	8,104.50	115.72	62.67	99.78	-1,101.12	-7.42	4,922.81	4,817.49	105.31	46.745		
15,600.00	7,730.00	8,327.00	8,147.91	117.36	36.83	100.87	-1,104.05	-5.68	5,011.96	4,930.34	81.62	61.404		
15,700.00	7,730.00	8,327.00	8,147.91	119.00	36.83	100.87	-1,104.05	-5.68	5,101.33	5,019.87	81.46	62.625		
15,800.00	7,730.00	8,327.00	8,147.91	120.65	36.83	100.87	-1,104.05	-5.68	5,191.09	5,109.78	81.30	63.850		
15,900.00	7,730.00	8,344.96	8,165.81	122.30	36.89	101.32	-1,105.43	-4.98	5,281.16	5,199.95	81.20	65.037		
16,000.00	7,730.00	8,349.14	8,169.97	123.96	36.91	101.42	-1,105.74	-4.82	5,371.60	5,290.53	81.07	66.259		
16,100.00	7,730.00	8,353.27	8,174.08	125.61	36.92	101.52	-1,106.05	-4.67	5,462.38	5,381.44	80.94	67.485		
16,200.00	7,730.00	8,357.34	8,178.14	127.27	36.94	101.63	-1,106.35	-4.52	5,553.47	5,472.65	80.82	68.715		
16,300.00	7,730.00	8,361.36	8,182.14	128.94	36.95	101.73	-1,106.65	-4.37	5,644.85	5,564.15	80.70	69.947		
16,400.00	7,730.00	8,365.32	8,186.09	130.60	36.96	101.82	-1,106.94	-4.23	5,736.51	5,655.92	80.59	71.181		
16,500.00	7,730.00	8,369.24	8,190.00	132.27	36.98	101.92	-1,107.22	-4.09	5,828.45	5,747.97	80.48	72.419		
16,600.00	7,730.00	8,373.10	8,193.85	133.94	36.99	102.02	-1,107.50	-3.95	5,920.64	5,840.26	80.38	73.658		
16,700.00	7,730.00	8,376.91	8,197.65	135.61	37.01	102.11	-1,107.77	-3.82	6,013.08	5,932.79	80.28	74.899		
16,800.00	7,730.00	8,380.68	8,201.40	137.28	37.02	102.20	-1,108.04	-3.68	6,105.75	6,025.56	80.19	76.142		
16,900.00	7,730.00	8,384.40	8,205.11	138.96	37.03	102.30	-1,108.31	-3.56	6,198.64	6,118.54	80.10	77.386		
17,000.00	7,730.00	8,388.07	8,208.77	140.64	37.05	102.39	-1,108.56	-3.43	6,291.75	6,211.73	80.02	78.632		
17,100.00	7,730.00	8,391.70	8,212.39	142.32	37.06	102.48	-1,108.82	-3.31	6,385.06	6,305.12	79.93	79.878		
17,200.00	7,730.00	8,395.28	8,215.96	144.00	37.07	102.56	-1,109.07	-3.19	6,478.57	6,398.71	79.86	81.126		
17,300.00	7,730.00	8,398.82	8,219.48	145.69	37.08	102.65	-1,109.31	-3.07	6,572.26	6,492.48	79.79	82.374		
17,400.00	7,730.00	8,420.00	8,240.61	147.37	37.16	103.17	-1,110.75	-2.39	6,666.18	6,586.42	79.77	83.573		
17,500.00	7,730.00	8,420.00	8,240.61	149.06	37.16	103.17	-1,110.75	-2.39	6,760.21	6,680.52	79.69	84.831		
17,600.00	7,730.00	8,420.00	8,240.61	150.75	37.16	103.17	-1,110.75	-2.39	6,854.41	6,774.79	79.62	86.090		
17,700.00	7,730.00	8,420.00	8,240.61	152.44	37.16	103.17	-1,110.75	-2.39	6,948.77	6,869.22	79.55	87.350		
17,800.00	7,730.00	8,420.00	8,240.61	154.13	37.16	103.17	-1,110.75	-2.39	7,043.29	6,963.80	79.49	88.609		
17,900.00	7,730.00	8,420.00	8,240.61	155.83	37.16	103.17	-1,110.75	-2.39	7,137.96	7,058.53	79.43	89.869		
18,000.00	7,730.00	8,420.00	8,240.61	157.52	37.16	103.17	-1,110.75	-2.39	7,232.76	7,153.40	79.37	91.128		
18,100.00	7,730.00	8,420.00	8,240.61	159.22	37.16	103.17	-1,110.75	-2.39	7,327.71	7,248.40	79.32	92.387		
18,200.00	7,730.00	8,420.00	8,240.61	160.92	37.16	103.17	-1,110.75	-2.39	7,422.79	7,343.53	79.26	93.646		
18,300.00	7,730.00	8,420.00	8,240.61	162.62	37.16	103.17	-1,110.75	-2.39	7,518.00	7,438.79	79.22	94.905		
18,400.00	7,730.00	8,420.00	8,240.61	164.32	37.16	103.17	-1,110.75	-2.39	7,613.33	7,534.16	79.17	96.163		
18,426.22	7,730.00	8,420.00	8,240.61	164.76	37.16	103.17	-1,110.75	-2.39	7,638.35	7,559.19	79.16	96.493		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-9.18	218.21	-35.28	221.27				
100.00	100.00	87.90	87.90	0.13	0.14	-9.15	218.64	-35.22	221.47	221.19	0.28	792.956	
200.00	200.00	188.97	188.96	0.49	0.40	-8.95	219.86	-34.63	222.58	221.68	0.90	248.128	
300.00	300.00	294.02	293.94	0.85	0.78	-8.04	219.73	-31.02	221.94	220.31	1.63	136.054	
400.00	400.00	396.86	396.46	1.21	1.16	-6.08	218.10	-23.23	219.43	217.06	2.37	92.616	
500.00	500.00	496.57	495.40	1.57	1.55	-2.91	216.25	-11.00	216.60	213.48	3.12	69.440	
600.00	600.00	602.34	599.83	1.93	2.00	1.43	212.83	5.32	213.13	209.20	3.92	54.326	
700.00	700.00	698.36	694.08	2.29	2.44	6.33	208.48	23.13	209.80	205.07	4.72	44.405	
741.55	741.55	736.73	731.55	2.43	2.63	8.59	207.04	31.26	209.39	204.32	5.06	41.352	
800.00	800.00	789.18	782.58	2.64	2.89	11.89	205.65	43.28	210.28	204.75	5.53	38.004	
900.00	900.00	871.00	861.87	3.00	3.32	17.00	207.24	63.36	218.53	212.24	6.28	34.771	
1,000.00	1,000.00	972.34	959.79	3.36	3.86	22.84	211.57	89.11	231.55	224.40	7.14	32.409	
1,100.00	1,100.00	1,070.64	1,054.74	3.72	4.40	28.18	213.65	114.44	244.92	236.96	7.97	30.742	
1,200.00	1,200.00	1,165.74	1,146.34	4.08	4.94	33.00	215.48	139.93	260.61	251.86	8.75	29.783	
1,300.00	1,299.98	1,262.58	1,239.65	4.43	5.49	-9.84	217.67	165.73	276.48	266.97	9.52	29.053	
1,400.00	1,399.84	1,355.09	1,329.17	4.79	6.01	-6.77	221.51	188.75	290.49	280.28	10.22	28.428	
1,500.00	1,499.45	1,448.89	1,419.60	5.15	6.53	-4.25	228.09	212.77	304.39	293.47	10.92	27.863	
1,600.00	1,598.70	1,546.12	1,513.32	5.51	7.09	-1.91	235.03	237.73	315.57	303.93	11.64	27.118	
1,700.00	1,697.47	1,640.74	1,604.24	5.89	7.64	0.22	242.38	262.87	324.88	312.55	12.32	26.361	
1,800.00	1,795.62	1,740.80	1,700.32	6.28	8.22	2.15	251.63	289.24	331.96	318.90	13.06	25.424	
1,900.00	1,893.06	1,842.52	1,798.29	6.69	8.80	3.96	260.93	314.96	334.98	321.18	13.80	24.276	
2,000.00	1,989.64	1,950.81	1,902.89	7.13	9.41	6.01	269.55	341.59	333.58	318.99	14.59	22.858	
2,100.00	2,085.27	2,050.92	1,999.94	7.61	9.96	8.26	275.39	365.45	327.23	311.92	15.31	21.374	
2,200.00	2,179.82	2,145.53	2,091.53	8.12	10.49	10.59	281.18	388.46	318.54	302.56	15.98	19.938	
2,300.00	2,273.17	2,242.77	2,185.48	8.67	11.05	13.21	287.85	412.63	307.90	291.23	16.67	18.471	
2,400.00	2,365.21	2,348.29	2,287.72	9.27	11.63	16.50	294.49	437.85	293.49	276.05	17.45	16.824	
2,500.00	2,455.84	2,445.39	2,382.09	9.92	12.16	20.14	300.11	460.00	275.52	257.35	18.17	15.163	
2,580.62	2,527.80	2,522.77	2,457.33	10.49	12.57	23.56	304.85	477.43	259.45	240.67	18.79	13.810	
2,600.00	2,544.97	2,540.42	2,474.49	10.63	12.67	24.40	305.92	481.45	255.52	236.58	18.94	13.493	
2,700.00	2,633.58	2,632.53	2,563.75	11.37	13.18	29.51	310.33	503.73	237.40	217.61	19.79	11.998	
2,800.00	2,722.19	2,728.74	2,656.92	12.13	13.73	35.92	313.76	527.48	222.04	201.17	20.87	10.639	
2,900.00	2,810.80	2,822.60	2,747.71	12.91	14.26	42.76	317.73	550.98	210.27	188.09	22.19	9.477	
3,000.00	2,899.41	2,917.25	2,839.18	13.71	14.80	50.44	321.04	575.08	202.70	178.86	23.83	8.504	
3,100.00	2,988.02	3,012.17	2,930.87	14.52	15.35	58.65	323.84	599.46	199.76	173.98	25.78	7.749	
3,112.67	2,999.25	3,024.26	2,942.53	14.62	15.42	59.69	324.24	602.58	199.72	173.68	26.04	7.669 CC	
3,200.00	3,076.63	3,108.95	3,024.23	15.34	15.91	66.78	327.71	624.64	201.29	173.39	27.90	7.214 ES	
3,300.00	3,165.24	3,208.02	3,119.92	16.16	16.48	74.54	333.46	649.65	205.43	175.36	30.07	6.833	
3,400.00	3,253.85	3,305.04	3,213.69	17.00	17.04	81.69	339.67	673.73	212.53	180.40	32.12	6.616	
3,500.00	3,342.46	3,401.99	3,307.63	17.84	17.58	88.47	345.88	696.93	222.25	188.21	34.05	6.528 SF	
3,600.00	3,431.07	3,496.04	3,398.82	18.69	18.10	94.57	351.49	719.24	235.17	199.42	35.74	6.579	
3,700.00	3,519.68	3,588.34	3,488.44	19.55	18.61	100.14	355.46	740.94	251.94	214.71	37.23	6.768	
3,800.00	3,608.29	3,683.71	3,580.92	20.40	19.14	105.12	358.96	763.96	271.81	233.22	38.59	7.044	
3,900.00	3,696.90	3,780.10	3,674.54	21.26	19.67	109.56	363.01	786.55	292.76	252.93	39.84	7.349	
4,000.00	3,785.51	3,874.68	3,766.28	22.13	20.19	113.27	366.76	809.23	315.58	274.61	40.97	7.702	
4,100.00	3,874.12	3,971.18	3,859.97	23.00	20.72	116.60	370.76	832.00	339.30	297.23	42.07	8.065	
4,200.00	3,962.73	4,071.28	3,957.22	23.87	21.27	119.64	375.33	855.29	363.53	320.36	43.16	8.422	
4,300.00	4,051.34	4,167.56	4,050.93	24.74	21.78	122.32	381.07	876.63	387.06	342.91	44.15	8.767	
4,400.00	4,139.95	4,261.98	4,142.80	25.62	22.29	124.63	385.88	897.86	412.17	367.08	45.09	9.141	
4,500.00	4,228.56	4,358.83	4,237.03	26.49	22.80	126.73	391.29	919.57	437.40	391.36	46.04	9.500	
4,600.00	4,317.17	4,449.16	4,325.19	27.37	23.28	128.63	395.95	938.73	463.51	416.64	46.87	9.889	
4,700.00	4,405.78	4,542.36	4,415.84	28.25	23.78	130.19	399.63	960.05	491.22	443.45	47.78	10.282	
4,800.00	4,494.39	4,640.98	4,511.81	29.13	24.31	131.70	403.93	982.37	518.88	470.13	48.75	10.643	

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,583.00	4,734.45	4,602.77	30.02	24.81	133.01	408.33	1,003.41	546.50	496.85	49.66	11.006		
5,000.00	4,671.61	4,818.23	4,684.37	30.90	25.25	134.07	411.35	1,022.16	575.46	525.03	50.42	11.413		
5,100.00	4,760.22	4,901.94	4,766.25	31.79	25.67	135.18	412.44	1,039.47	606.89	555.76	51.13	11.869		
5,200.00	4,848.83	4,992.22	4,855.13	32.67	26.09	136.53	413.13	1,055.30	639.45	587.61	51.84	12.335		
5,300.00	4,937.44	5,082.04	4,943.95	33.56	26.47	137.96	413.65	1,068.65	672.83	620.37	52.46	12.825		
5,400.00	5,026.05	5,171.39	5,032.55	34.45	26.82	139.40	414.03	1,080.19	707.03	654.01	53.03	13.334		
5,500.00	5,114.66	5,259.45	5,120.08	35.34	27.15	140.84	414.28	1,089.82	742.11	688.59	53.52	13.866		
5,600.00	5,203.27	5,345.71	5,206.05	36.23	27.44	142.32	414.48	1,096.80	778.23	724.30	53.92	14.432		
5,700.00	5,291.88	5,431.96	5,292.17	37.12	27.71	143.84	414.65	1,101.54	815.40	761.14	54.27	15.026		
5,800.00	5,380.50	5,518.56	5,378.70	38.01	27.96	145.32	414.75	1,104.99	853.55	798.96	54.59	15.637		
5,900.00	5,469.11	5,609.05	5,469.14	38.90	28.21	146.80	414.88	1,107.92	892.37	837.42	54.95	16.240		
6,000.00	5,557.72	5,694.71	5,554.78	39.79	28.44	148.15	415.14	1,109.82	931.81	876.56	55.25	16.865		
6,100.00	5,646.33	5,779.03	5,639.10	40.68	28.66	149.44	415.39	1,110.49	972.15	916.63	55.52	17.509		
6,200.00	5,734.94	5,867.70	5,727.77	41.58	28.87	150.75	415.61	1,110.45	1,013.24	957.40	55.84	18.146		
6,300.00	5,823.55	5,954.58	5,814.65	42.47	29.08	151.94	415.93	1,110.21	1,054.74	998.59	56.15	18.785		
6,400.00	5,912.16	6,042.19	5,902.25	43.36	29.28	153.06	416.08	1,109.88	1,096.81	1,040.33	56.48	19.419		
6,500.00	6,000.77	6,130.68	5,990.75	44.26	29.49	154.13	416.33	1,109.32	1,139.22	1,082.38	56.84	20.043		
6,600.00	6,089.38	6,217.57	6,077.63	45.15	29.69	155.11	416.59	1,108.65	1,182.00	1,124.80	57.20	20.664		
6,700.00	6,177.99	6,303.55	6,163.61	46.05	29.89	156.01	416.65	1,108.00	1,225.24	1,167.66	57.57	21.282		
6,800.00	6,266.60	6,390.91	6,250.96	46.94	30.10	156.89	416.72	1,107.00	1,268.86	1,210.89	57.97	21.889		
6,900.00	6,355.21	6,478.98	6,339.02	47.84	30.30	157.73	417.00	1,105.62	1,312.71	1,254.33	58.38	22.485		
7,000.00	6,443.82	6,562.73	6,422.76	48.74	30.50	158.49	417.18	1,104.17	1,356.94	1,298.17	58.77	23.090		
7,100.00	6,532.43	6,641.73	6,501.75	49.63	30.68	159.15	416.90	1,102.77	1,401.82	1,342.70	59.12	23.711		
7,200.00	6,621.04	6,741.11	6,601.11	50.53	30.92	159.92	416.47	1,101.30	1,446.83	1,387.12	59.71	24.232		
7,300.00	6,709.65	6,849.96	6,709.95	51.42	31.20	160.69	416.85	1,100.79	1,490.93	1,430.51	60.42	24.676		
7,400.00	6,798.26	6,945.15	6,805.15	52.32	31.46	161.28	417.49	1,101.47	1,534.41	1,473.37	61.03	25.140		
7,500.00	6,886.87	7,035.49	6,895.48	53.22	31.72	161.80	418.04	1,102.55	1,577.83	1,516.20	61.62	25.605		
7,600.00	6,975.48	7,127.65	6,987.62	54.12	31.98	162.30	418.75	1,103.61	1,621.23	1,558.99	62.23	26.050		
7,656.30	7,025.36	7,180.71	7,040.68	54.62	32.13	162.58	419.21	1,104.35	1,645.61	1,583.01	62.60	26.289		
7,700.00	7,064.54	7,221.70	7,081.66	55.00	32.25	164.62	419.55	1,105.04	1,663.23	1,600.36	62.87	26.457		
7,750.00	7,110.29	7,268.41	7,128.36	55.40	32.39	143.96	419.97	1,105.83	1,680.18	1,617.03	63.15	26.608		
7,800.00	7,156.67	7,316.10	7,176.05	55.75	32.53	131.75	420.43	1,106.61	1,693.64	1,630.23	63.41	26.711		
7,850.00	7,203.34	7,364.55	7,224.49	56.05	32.67	118.75	421.08	1,107.20	1,703.53	1,639.89	63.64	26.768		
7,900.00	7,249.95	7,407.65	7,267.58	56.30	32.79	106.21	421.81	1,107.52	1,709.87	1,646.08	63.79	26.806		
7,950.00	7,296.14	7,444.15	7,304.08	56.50	32.90	95.25	422.31	1,107.64	1,712.91	1,649.07	63.84	26.832		
8,000.00	7,341.56	7,479.97	7,339.90	56.64	33.00	86.46	422.64	1,107.64	1,712.72	1,648.87	63.85	26.824		
8,050.00	7,385.86	7,521.07	7,380.99	56.74	33.11	79.90	422.90	1,107.53	1,709.30	1,645.41	63.89	26.754		
8,100.00	7,428.71	7,561.56	7,421.48	56.79	33.22	75.19	423.13	1,107.38	1,702.65	1,638.75	63.90	26.646		
8,150.00	7,469.77	7,600.59	7,460.51	56.80	33.32	71.97	423.33	1,107.18	1,692.88	1,629.00	63.88	26.502		
8,200.00	7,508.75	7,637.72	7,497.64	56.77	33.42	69.97	423.54	1,106.90	1,680.15	1,616.32	63.82	26.325		
8,250.00	7,545.33	7,672.46	7,532.38	56.70	33.51	68.96	423.75	1,106.57	1,664.64	1,600.90	63.74	26.117		
8,300.00	7,579.25	7,705.60	7,565.51	56.59	33.60	68.81	423.94	1,106.24	1,646.54	1,582.90	63.64	25.874		
8,350.00	7,610.24	7,735.93	7,595.84	56.45	33.68	69.37	424.08	1,105.96	1,626.07	1,562.55	63.51	25.601		
8,400.00	7,638.06	7,763.22	7,623.13	56.28	33.75	70.55	424.19	1,105.73	1,603.46	1,540.08	63.37	25.302		
8,450.00	7,662.52	7,787.56	7,647.47	56.09	33.81	72.30	424.26	1,105.54	1,578.96	1,515.74	63.22	24.975		
8,500.00	7,683.41	7,808.39	7,668.30	55.88	33.87	74.53	424.32	1,105.38	1,552.84	1,489.77	63.06	24.624		
8,550.00	7,700.59	7,825.50	7,685.41	55.64	33.91	77.18	424.37	1,105.25	1,525.35	1,462.46	62.89	24.253		
8,600.00	7,713.91	7,838.77	7,698.68	55.39	33.95	80.16	424.41	1,105.16	1,496.77	1,434.05	62.72	23.862		
8,650.00	7,723.29	7,848.07	7,707.98	55.14	33.97	83.41	424.43	1,105.10	1,467.37	1,404.81	62.56	23.455		
8,700.00	7,728.64	7,853.33	7,713.24	54.87	33.99	86.84	424.44	1,105.06	1,437.40	1,374.99	62.40	23.034		
8,740.83	7,730.00	7,854.61	7,714.52	54.65	33.99	89.72	424.44	1,105.05	1,412.67	1,350.39	62.28	22.681		
8,800.00	7,730.00	7,854.47	7,714.38	54.33	33.99	89.71	424.44	1,105.05	1,377.55	1,315.41	62.13	22.171		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	7,854.23	7,714.14	53.82	33.99	89.70	424.44	1,105.06	1,322.08	1,260.12	61.97	21.334		
9,000.00	7,730.00	7,853.99	7,713.90	53.33	33.99	89.69	424.44	1,105.06	1,272.08	1,210.12	61.95	20.532		
9,100.00	7,730.00	7,853.76	7,713.67	52.87	33.99	89.68	424.44	1,105.06	1,228.19	1,166.07	62.12	19.770		
9,200.00	7,730.00	7,853.52	7,713.43	52.44	33.99	89.66	424.44	1,105.06	1,191.11	1,128.60	62.51	19.055		
9,300.00	7,730.00	7,853.28	7,713.19	52.03	33.99	89.65	424.44	1,105.06	1,161.47	1,098.34	63.13	18.398		
9,400.00	7,730.00	7,853.04	7,712.95	51.65	33.99	89.64	424.44	1,105.06	1,139.86	1,075.88	63.99	17.814		
9,500.00	7,730.00	7,852.81	7,712.72	51.29	33.99	89.63	424.44	1,105.07	1,126.75	1,061.69	65.06	17.319		
9,598.62	7,730.00	7,852.57	7,712.48	50.96	33.99	89.62	424.44	1,105.07	1,122.43	1,056.14	66.28	16.934		
9,600.00	7,730.00	7,852.57	7,712.48	50.95	33.99	89.62	424.44	1,105.07	1,122.43	1,056.13	66.30	16.929		
9,700.00	7,730.00	7,852.33	7,712.24	50.64	33.99	89.60	424.44	1,105.07	1,126.99	1,059.34	67.66	16.657		
9,800.00	7,730.00	7,852.09	7,712.00	50.35	33.98	89.59	424.44	1,105.07	1,140.35	1,071.28	69.06	16.512		
9,900.00	7,730.00	7,851.85	7,711.76	50.09	33.98	89.58	424.44	1,105.07	1,162.18	1,091.74	70.45	16.497		
10,000.00	7,730.00	7,851.60	7,711.51	49.86	33.98	89.57	424.44	1,105.07	1,192.03	1,120.27	71.76	16.612		
10,100.00	7,730.00	7,851.36	7,711.27	49.65	33.98	89.55	424.44	1,105.08	1,229.32	1,156.36	72.96	16.850		
10,200.00	7,730.00	7,851.12	7,711.03	49.48	33.98	89.54	424.44	1,105.08	1,273.38	1,199.36	74.02	17.203		
10,300.00	7,730.00	7,850.88	7,710.79	49.35	33.98	89.53	424.44	1,105.08	1,323.54	1,248.60	74.94	17.662		
10,400.00	7,730.00	7,850.63	7,710.54	49.27	33.98	89.52	424.43	1,105.08	1,379.15	1,303.43	75.72	18.214		
10,500.00	7,730.00	7,850.39	7,710.30	49.26	33.98	89.50	424.43	1,105.08	1,439.56	1,363.19	76.37	18.850		
10,600.00	7,730.00	7,850.14	7,710.05	49.32	33.98	89.49	424.43	1,105.08	1,504.19	1,427.29	76.90	19.561		
10,700.00	7,730.00	7,849.90	7,709.81	49.51	33.98	89.48	424.43	1,105.09	1,572.54	1,495.21	77.33	20.335		
10,800.00	7,730.00	7,849.65	7,709.56	49.83	33.98	89.47	424.43	1,105.09	1,644.12	1,566.45	77.67	21.167		
10,900.00	7,730.00	7,849.41	7,709.32	50.31	33.98	89.45	424.43	1,105.09	1,718.55	1,640.61	77.94	22.048		
11,000.00	7,730.00	7,849.16	7,709.07	50.96	33.98	89.44	424.43	1,105.09	1,795.46	1,717.31	78.16	22.973		
11,100.00	7,730.00	7,848.91	7,708.82	51.75	33.98	89.43	424.43	1,105.09	1,874.56	1,796.24	78.32	23.936		
11,200.00	7,730.00	7,848.67	7,708.58	52.66	33.98	89.42	424.43	1,105.09	1,955.57	1,877.13	78.44	24.932		
11,300.00	7,730.00	7,848.42	7,708.33	53.67	33.97	89.40	424.43	1,105.10	2,038.26	1,959.74	78.53	25.957		
11,400.00	7,730.00	7,848.17	7,708.08	54.75	33.97	89.39	424.43	1,105.10	2,122.45	2,043.86	78.59	27.008		
11,500.00	7,730.00	7,847.92	7,707.83	55.89	33.97	89.38	424.43	1,105.10	2,207.95	2,129.33	78.63	28.082		
11,600.00	7,730.00	7,847.67	7,707.58	57.07	33.97	89.37	424.43	1,105.10	2,294.63	2,215.98	78.65	29.175		
11,700.00	7,730.00	7,847.42	7,707.33	58.30	33.97	89.35	424.43	1,105.10	2,382.35	2,303.70	78.66	30.287		
11,800.00	7,730.00	7,847.17	7,707.08	59.55	33.97	89.34	424.43	1,105.10	2,471.01	2,392.35	78.66	31.415		
11,900.00	7,730.00	7,846.92	7,706.83	60.84	33.97	89.33	424.43	1,105.11	2,560.50	2,481.85	78.65	32.557		
12,000.00	7,730.00	7,846.67	7,706.58	62.15	33.97	89.31	424.43	1,105.11	2,650.74	2,572.11	78.63	33.711		
12,100.00	7,730.00	7,846.41	7,706.32	63.49	33.97	89.30	424.42	1,105.11	2,741.66	2,663.05	78.61	34.877		
12,200.00	7,730.00	7,846.16	7,706.07	64.85	33.97	89.29	424.42	1,105.11	2,833.19	2,754.61	78.58	36.053		
12,300.00	7,730.00	7,845.91	7,705.82	66.22	33.97	89.28	424.42	1,105.11	2,925.28	2,846.72	78.56	37.238		
12,400.00	7,730.00	7,845.65	7,705.56	67.62	33.97	89.26	424.42	1,105.11	3,017.87	2,939.34	78.53	38.431		
12,500.00	7,730.00	7,845.40	7,705.31	69.03	33.97	89.25	424.42	1,105.12	3,110.92	3,032.42	78.50	39.631		
12,600.00	7,730.00	7,845.14	7,705.05	70.45	33.97	89.24	424.42	1,105.12	3,204.38	3,125.92	78.47	40.838		
12,700.00	7,730.00	7,844.89	7,704.80	71.90	33.97	89.22	424.42	1,105.12	3,298.23	3,219.80	78.43	42.051		
12,800.00	7,730.00	7,844.63	7,704.54	73.35	33.96	89.21	424.42	1,105.12	3,392.43	3,314.03	78.40	43.270		
12,900.00	7,730.00	7,844.37	7,704.28	74.81	33.96	89.20	424.42	1,105.12	3,486.96	3,408.59	78.37	44.493		
13,000.00	7,730.00	7,844.12	7,704.03	76.29	33.96	89.18	424.42	1,105.12	3,581.78	3,503.44	78.34	45.720		
13,100.00	7,730.00	7,843.86	7,703.77	77.78	33.96	89.17	424.42	1,105.13	3,676.88	3,598.57	78.31	46.952		
13,200.00	7,730.00	7,843.60	7,703.51	79.28	33.96	89.16	424.42	1,105.13	3,772.23	3,693.94	78.28	48.186		
13,300.00	7,730.00	7,843.34	7,703.25	80.79	33.96	89.14	424.42	1,105.13	3,867.81	3,789.55	78.26	49.424		
13,400.00	7,730.00	7,843.08	7,702.99	82.31	33.96	89.13	424.42	1,105.13	3,963.61	3,885.38	78.23	50.665		
13,500.00	7,730.00	7,842.82	7,702.73	83.84	33.96	89.12	424.42	1,105.13	4,059.62	3,981.41	78.21	51.908		
13,600.00	7,730.00	7,842.56	7,702.47	85.37	33.96	89.11	424.42	1,105.14	4,155.81	4,077.63	78.18	53.154		
13,700.00	7,730.00	7,842.30	7,702.21	86.92	33.96	89.09	424.41	1,105.14	4,252.18	4,174.02	78.16	54.401		
13,800.00	7,730.00	7,842.03	7,701.95	88.47	33.96	89.08	424.41	1,105.14	4,348.72	4,270.57	78.14	55.650		
13,900.00	7,730.00	7,841.77	7,701.68	90.03	33.96	89.06	424.41	1,105.14	4,445.40	4,367.28	78.13	56.901		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,730.00	7,841.51	7,701.42	91.59	33.96	89.05	424.41	1,105.14	4,542.23	4,464.12	78.11	58.153		
14,100.00	7,730.00	7,841.24	7,701.16	93.16	33.96	89.04	424.41	1,105.14	4,639.20	4,561.10	78.09	59.406		
14,200.00	7,730.00	7,840.98	7,700.89	94.74	33.96	89.02	424.41	1,105.15	4,736.29	4,658.21	78.08	60.660		
14,300.00	7,730.00	7,840.72	7,700.63	96.33	33.95	89.01	424.41	1,105.15	4,833.50	4,755.43	78.07	61.915		
14,400.00	7,730.00	7,840.45	7,700.36	97.92	33.95	89.00	424.41	1,105.15	4,930.82	4,852.76	78.06	63.170		
14,500.00	7,730.00	7,840.18	7,700.09	99.51	33.95	88.98	424.41	1,105.15	5,028.24	4,950.20	78.05	64.426		
14,600.00	7,730.00	7,839.92	7,699.83	101.11	33.95	88.97	424.41	1,105.15	5,125.77	5,047.73	78.04	65.682		
14,700.00	7,730.00	7,839.65	7,699.56	102.72	33.95	88.96	424.41	1,105.16	5,223.39	5,145.35	78.03	66.938		
14,800.00	7,730.00	7,839.38	7,699.29	104.33	33.95	88.94	424.41	1,105.16	5,321.09	5,243.06	78.03	68.195		
14,900.00	7,730.00	7,839.11	7,699.02	105.94	33.95	88.93	424.41	1,105.16	5,418.88	5,340.86	78.02	69.451		
15,000.00	7,730.00	7,838.84	7,698.75	107.56	33.95	88.92	424.41	1,105.16	5,516.75	5,438.73	78.02	70.707		
15,100.00	7,730.00	7,838.57	7,698.48	109.18	33.95	88.90	424.41	1,105.16	5,614.70	5,536.68	78.02	71.963		
15,200.00	7,730.00	7,838.30	7,698.21	110.81	33.95	88.89	424.40	1,105.16	5,712.71	5,634.69	78.02	73.219		
15,300.00	7,730.00	7,838.03	7,697.94	112.44	33.95	88.87	424.40	1,105.17	5,810.80	5,732.77	78.02	74.474		
15,400.00	7,730.00	7,837.76	7,697.67	114.08	33.95	88.86	424.40	1,105.17	5,908.95	5,830.92	78.03	75.729		
15,500.00	7,730.00	7,837.49	7,697.40	115.72	33.95	88.85	424.40	1,105.17	6,007.16	5,929.12	78.03	76.983		
15,600.00	7,730.00	7,837.21	7,697.12	117.36	33.95	88.83	424.40	1,105.17	6,105.42	6,027.38	78.04	78.237		
15,700.00	7,730.00	7,836.94	7,696.85	119.00	33.94	88.82	424.40	1,105.17	6,203.74	6,125.70	78.04	79.489		
15,800.00	7,730.00	7,836.67	7,696.58	120.65	33.94	88.80	424.40	1,105.18	6,302.12	6,224.07	78.05	80.741		
15,900.00	7,730.00	7,836.39	7,696.30	122.30	33.94	88.79	424.40	1,105.18	6,400.55	6,322.48	78.06	81.992		
16,000.00	7,730.00	7,836.12	7,696.03	123.96	33.94	88.78	424.40	1,105.18	6,499.02	6,420.95	78.07	83.242		
16,100.00	7,730.00	7,835.84	7,695.75	125.61	33.94	88.76	424.40	1,105.18	6,597.54	6,519.45	78.09	84.491		
16,200.00	7,730.00	7,835.56	7,695.47	127.27	33.94	88.75	424.40	1,105.18	6,696.10	6,618.00	78.10	85.739		
16,300.00	7,730.00	7,835.29	7,695.20	128.94	33.94	88.73	424.40	1,105.19	6,794.71	6,716.60	78.11	86.986		
16,400.00	7,730.00	7,835.01	7,694.92	130.60	33.94	88.72	424.40	1,105.19	6,893.35	6,815.23	78.13	88.232		
16,500.00	7,730.00	7,834.73	7,694.64	132.27	33.94	88.71	424.40	1,105.19	6,992.04	6,913.89	78.14	89.476		
16,600.00	7,730.00	7,834.45	7,694.36	133.94	33.94	88.69	424.39	1,105.19	7,090.76	7,012.60	78.16	90.719		
16,700.00	7,730.00	7,834.17	7,694.08	135.61	33.94	88.68	424.39	1,105.19	7,189.52	7,111.33	78.18	91.961		
16,800.00	7,730.00	7,833.89	7,693.80	137.28	33.94	88.66	424.39	1,105.20	7,288.31	7,210.11	78.20	93.201		
16,900.00	7,730.00	7,833.61	7,693.52	138.96	33.94	88.65	424.39	1,105.20	7,387.13	7,308.91	78.22	94.440		
17,000.00	7,730.00	7,833.33	7,693.24	140.64	33.93	88.63	424.39	1,105.20	7,485.98	7,407.74	78.24	95.677		
17,100.00	7,730.00	7,833.04	7,692.95	142.32	33.93	88.62	424.39	1,105.20	7,584.87	7,506.60	78.26	96.913		
17,200.00	7,730.00	7,832.76	7,692.67	144.00	33.93	88.61	424.39	1,105.20	7,683.78	7,605.49	78.29	98.147		
17,300.00	7,730.00	7,832.48	7,692.39	145.69	33.93	88.59	424.39	1,105.21	7,782.72	7,704.41	78.31	99.379		
17,400.00	7,730.00	7,832.19	7,692.10	147.37	33.93	88.58	424.39	1,105.21	7,881.69	7,803.35	78.34	100.610		
17,500.00	7,730.00	7,831.91	7,691.82	149.06	33.93	88.56	424.39	1,105.21	7,980.68	7,902.31	78.37	101.839		
17,600.00	7,730.00	7,831.62	7,691.53	150.75	33.93	88.55	424.39	1,105.21	8,079.70	8,001.31	78.39	103.067		
17,700.00	7,730.00	7,831.33	7,691.25	152.44	33.93	88.53	424.39	1,105.21	8,178.74	8,100.32	78.42	104.292		
17,800.00	7,730.00	7,831.05	7,690.96	154.13	33.93	88.52	424.39	1,105.22	8,277.81	8,199.35	78.45	105.516		
17,900.00	7,730.00	7,830.76	7,690.67	155.83	33.93	88.50	424.39	1,105.22	8,376.89	8,298.41	78.48	106.738		
18,000.00	7,730.00	7,830.47	7,690.38	157.52	33.93	88.49	424.38	1,105.22	8,476.00	8,397.49	78.51	107.958		
18,100.00	7,730.00	7,830.18	7,690.09	159.22	33.93	88.47	424.38	1,105.22	8,575.13	8,496.59	78.54	109.176		
18,200.00	7,730.00	7,829.89	7,689.80	160.92	33.93	88.46	424.38	1,105.22	8,674.28	8,595.70	78.58	110.392		
18,300.00	7,730.00	7,829.60	7,689.51	162.62	33.92	88.44	424.38	1,105.23	8,773.45	8,694.84	78.61	111.606		
18,400.00	7,730.00	7,829.31	7,689.22	164.32	33.92	88.43	424.38	1,105.23	8,872.63	8,793.99	78.65	112.818		
18,426.22	7,730.00	7,829.23	7,689.14	164.76	33.92	88.43	424.38	1,105.23	8,898.65	8,819.99	78.65	113.135		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	68.44	1,834.81	4,643.80	9,380.75					
100.00	100.00	15,353.00	7,799.48	0.13	138.96	68.44	1,834.81	4,643.80	9,296.25	9,207.64	88.61	104.913		
200.00	200.00	15,353.00	7,799.48	0.49	138.96	68.44	1,834.81	4,643.80	9,212.05	9,123.03	89.02	103.480		
300.00	300.00	15,353.00	7,799.48	0.85	138.96	68.44	1,834.81	4,643.80	9,128.18	9,038.71	89.47	102.027		
400.00	400.00	15,353.00	7,799.48	1.21	138.96	68.44	1,834.81	4,643.80	9,044.63	8,954.68	89.95	100.557		
500.00	500.00	15,353.00	7,799.48	1.57	138.96	68.44	1,834.81	4,643.80	8,961.42	8,870.96	90.45	99.073		
600.00	600.00	15,353.00	7,799.48	1.93	138.96	68.44	1,834.81	4,643.80	8,878.55	8,787.56	90.99	97.578		
700.00	700.00	15,353.00	7,799.48	2.29	138.96	68.44	1,834.81	4,643.80	8,796.04	8,704.49	91.55	96.076		
800.00	800.00	15,353.00	7,799.48	2.64	138.96	68.44	1,834.81	4,643.80	8,713.90	8,621.76	92.14	94.570		
900.00	900.00	15,353.00	7,799.48	3.00	138.96	68.44	1,834.81	4,643.80	8,632.14	8,539.38	92.75	93.064		
1,000.00	1,000.00	15,353.00	7,799.48	3.36	138.96	68.44	1,834.81	4,643.80	8,550.76	8,457.37	93.39	91.560		
1,100.00	1,100.00	15,353.00	7,799.48	3.72	138.96	68.44	1,834.81	4,643.80	8,469.78	8,375.74	94.05	90.060		
1,200.00	1,200.00	15,353.00	7,799.48	4.08	138.96	68.44	1,834.81	4,643.80	8,389.21	8,294.49	94.72	88.566		
1,300.00	1,299.98	15,353.00	7,799.48	4.43	138.96	22.35	1,834.81	4,643.80	8,308.11	8,212.69	95.42	87.072		
1,400.00	1,399.84	15,353.00	7,799.48	4.79	138.96	23.49	1,834.81	4,643.80	8,225.54	8,129.43	96.11	85.580		
1,500.00	1,499.45	15,353.00	7,799.48	5.15	138.96	24.75	1,834.81	4,643.80	8,141.58	8,044.78	96.80	84.104		
1,600.00	1,598.70	15,353.00	7,799.48	5.51	138.96	26.16	1,834.81	4,643.80	8,056.28	7,958.80	97.48	82.644		
1,700.00	1,697.47	15,353.00	7,799.48	5.89	138.96	27.73	1,834.81	4,643.80	7,969.70	7,871.55	98.15	81.200		
1,800.00	1,795.62	15,353.00	7,799.48	6.28	138.96	29.48	1,834.81	4,643.80	7,881.91	7,783.10	98.80	79.773		
1,900.00	1,893.06	15,353.00	7,799.48	6.69	138.96	31.46	1,834.81	4,643.80	7,792.97	7,693.52	99.45	78.363		
2,000.00	1,989.64	15,353.00	7,799.48	7.13	138.96	33.68	1,834.81	4,643.80	7,702.96	7,602.88	100.08	76.969		
2,100.00	2,085.27	15,353.00	7,799.48	7.61	138.96	36.20	1,834.81	4,643.80	7,611.96	7,511.26	100.70	75.593		
2,200.00	2,179.82	15,353.00	7,799.48	8.12	138.96	39.05	1,834.81	4,643.80	7,520.02	7,418.72	101.30	74.233		
2,300.00	2,273.17	15,353.00	7,799.48	8.67	138.96	42.29	1,834.81	4,643.80	7,427.25	7,325.35	101.90	72.891		
2,400.00	2,365.21	15,353.00	7,799.48	9.27	138.96	45.97	1,834.81	4,643.80	7,333.71	7,231.24	102.48	71.565		
2,500.00	2,455.84	15,353.00	7,799.48	9.92	138.96	50.15	1,834.81	4,643.80	7,239.51	7,136.46	103.04	70.257		
2,580.62	2,527.80	15,353.00	7,799.48	10.49	138.96	53.91	1,834.81	4,643.80	7,163.12	7,059.63	103.49	69.214		
2,600.00	2,544.97	15,353.00	7,799.48	10.63	138.96	53.91	1,834.81	4,643.80	7,144.73	7,041.13	103.60	68.964		
2,700.00	2,633.58	15,353.00	7,799.48	11.37	138.96	53.91	1,834.81	4,643.80	7,049.87	6,945.71	104.16	67.683		
2,800.00	2,722.19	15,353.00	7,799.48	12.13	138.96	53.91	1,834.81	4,643.80	6,955.16	6,850.41	104.74	66.403		
2,900.00	2,810.80	15,353.00	7,799.48	12.91	138.96	53.91	1,834.81	4,643.80	6,860.59	6,755.25	105.34	65.126		
3,000.00	2,899.41	15,353.00	7,799.48	13.71	138.96	53.91	1,834.81	4,643.80	6,766.18	6,660.22	105.97	63.851		
3,100.00	2,988.02	15,353.00	7,799.48	14.52	138.96	53.91	1,834.81	4,643.80	6,671.94	6,565.33	106.61	62.580		
3,200.00	3,076.63	15,353.00	7,799.48	15.34	138.96	53.91	1,834.81	4,643.80	6,577.86	6,470.58	107.28	61.313		
3,300.00	3,165.24	15,353.00	7,799.48	16.16	138.96	53.91	1,834.81	4,643.80	6,483.97	6,375.99	107.98	60.051		
3,400.00	3,253.85	15,353.00	7,799.48	17.00	138.96	53.91	1,834.81	4,643.80	6,390.25	6,281.56	108.69	58.793		
3,500.00	3,342.46	15,353.00	7,799.48	17.84	138.96	53.91	1,834.81	4,643.80	6,296.74	6,187.31	109.43	57.541		
3,600.00	3,431.07	15,353.00	7,799.48	18.69	138.96	53.91	1,834.81	4,643.80	6,203.42	6,093.23	110.19	56.295		
3,700.00	3,519.68	15,353.00	7,799.48	19.55	138.96	53.91	1,834.81	4,643.80	6,110.31	5,999.33	110.98	55.056		
3,800.00	3,608.29	15,353.00	7,799.48	20.40	138.96	53.91	1,834.81	4,643.80	6,017.43	5,905.63	111.80	53.824		
3,900.00	3,696.90	15,353.00	7,799.48	21.26	138.96	53.91	1,834.81	4,643.80	5,924.78	5,812.14	112.64	52.599		
4,000.00	3,785.51	15,353.00	7,799.48	22.13	138.96	53.91	1,834.81	4,643.80	5,832.37	5,718.86	113.51	51.383		
4,100.00	3,874.12	15,353.00	7,799.48	23.00	138.96	53.91	1,834.81	4,643.80	5,740.21	5,625.81	114.40	50.175		
4,200.00	3,962.73	15,353.00	7,799.48	23.87	138.96	53.91	1,834.81	4,643.80	5,648.33	5,533.00	115.33	48.975		
4,300.00	4,051.34	15,353.00	7,799.48	24.74	138.96	53.91	1,834.81	4,643.80	5,556.72	5,440.43	116.29	47.785		
4,400.00	4,139.95	15,353.00	7,799.48	25.62	138.96	53.91	1,834.81	4,643.80	5,465.40	5,348.13	117.27	46.605		
4,500.00	4,228.56	15,353.00	7,799.48	26.49	138.96	53.91	1,834.81	4,643.80	5,374.40	5,256.11	118.29	45.434		
4,600.00	4,317.17	15,353.00	7,799.48	27.37	138.96	53.91	1,834.81	4,643.80	5,283.72	5,164.38	119.34	44.275		
4,700.00	4,405.78	15,353.00	7,799.48	28.25	138.96	53.91	1,834.81	4,643.80	5,193.38	5,072.96	120.42	43.126		
4,800.00	4,494.39	15,353.00	7,799.48	29.13	138.96	53.91	1,834.81	4,643.80	5,103.41	4,981.86	121.54	41.989		
4,900.00	4,583.00	15,353.00	7,799.48	30.02	138.96	53.91	1,834.81	4,643.80	5,013.81	4,891.11	122.70	40.863		
5,000.00	4,671.61	15,353.00	7,799.48	30.90	138.96	53.91	1,834.81	4,643.80	4,924.61	4,800.72	123.89	39.750		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	15,353.00	7,799.48	31.79	138.96	53.91	1,834.81	4,643.80	4,835.84	4,710.72	125.12	38.650		
5,200.00	4,848.83	15,353.00	7,799.48	32.67	138.96	53.91	1,834.81	4,643.80	4,747.51	4,621.12	126.39	37.563		
5,300.00	4,937.44	15,353.00	7,799.48	33.56	138.96	53.91	1,834.81	4,643.80	4,659.66	4,531.96	127.70	36.489		
5,400.00	5,026.05	15,353.00	7,799.48	34.45	138.96	53.91	1,834.81	4,643.80	4,572.30	4,443.25	129.05	35.430		
5,500.00	5,114.66	15,353.00	7,799.48	35.34	138.96	53.91	1,834.81	4,643.80	4,485.47	4,355.02	130.45	34.385		
5,600.00	5,203.27	15,353.00	7,799.48	36.23	138.96	53.91	1,834.81	4,643.80	4,399.20	4,267.31	131.89	33.355		
5,700.00	5,291.88	15,353.00	7,799.48	37.12	138.96	53.91	1,834.81	4,643.80	4,313.53	4,180.15	133.38	32.341		
5,800.00	5,380.50	15,353.00	7,799.48	38.01	138.96	53.91	1,834.81	4,643.80	4,228.48	4,093.57	134.91	31.343		
5,900.00	5,469.11	15,353.00	7,799.48	38.90	138.96	53.91	1,834.81	4,643.80	4,144.10	4,007.61	136.49	30.362		
6,000.00	5,557.72	15,353.00	7,799.48	39.79	138.96	53.91	1,834.81	4,643.80	4,060.43	3,922.31	138.12	29.397		
6,100.00	5,646.33	15,353.00	7,799.48	40.68	138.96	53.91	1,834.81	4,643.80	3,977.51	3,837.71	139.80	28.450		
6,200.00	5,734.94	15,353.00	7,799.48	41.58	138.96	53.91	1,834.81	4,643.80	3,895.40	3,753.86	141.54	27.522		
6,300.00	5,823.55	15,353.00	7,799.48	42.47	138.96	53.91	1,834.81	4,643.80	3,814.14	3,670.82	143.32	26.613		
6,400.00	5,912.16	15,353.00	7,799.48	43.36	138.96	53.91	1,834.81	4,643.80	3,733.79	3,588.64	145.16	25.722		
6,500.00	6,000.77	15,353.00	7,799.48	44.26	138.96	53.91	1,834.81	4,643.80	3,654.41	3,507.37	147.05	24.852		
6,600.00	6,089.38	15,353.00	7,799.48	45.15	138.96	53.91	1,834.81	4,643.80	3,576.07	3,427.08	148.98	24.003		
6,700.00	6,177.99	15,353.00	7,799.48	46.05	138.96	53.91	1,834.81	4,643.80	3,498.83	3,347.85	150.97	23.175		
6,800.00	6,266.60	15,353.00	7,799.48	46.94	138.96	53.91	1,834.81	4,643.80	3,422.77	3,269.75	153.01	22.369		
6,900.00	6,355.21	15,353.00	7,799.48	47.84	138.96	53.91	1,834.81	4,643.80	3,347.96	3,192.86	155.10	21.586		
7,000.00	6,443.82	15,353.00	7,799.48	48.74	138.96	53.91	1,834.81	4,643.80	3,274.50	3,117.27	157.23	20.826		
7,100.00	6,532.43	15,353.00	7,799.48	49.63	138.96	53.91	1,834.81	4,643.80	3,202.48	3,043.08	159.41	20.090		
7,200.00	6,621.04	15,353.00	7,799.48	50.53	138.96	53.91	1,834.81	4,643.80	3,132.00	2,970.38	161.62	19.379		
7,300.00	6,709.65	15,353.00	7,799.48	51.42	138.96	53.91	1,834.81	4,643.80	3,063.16	2,899.30	163.86	18.694		
7,400.00	6,798.26	15,353.00	7,799.48	52.32	138.96	53.91	1,834.81	4,643.80	2,996.08	2,829.96	166.12	18.035		
7,500.00	6,886.87	15,353.00	7,799.48	53.22	138.96	53.91	1,834.81	4,643.80	2,930.87	2,762.47	168.41	17.404		
7,600.00	6,975.48	15,346.73	7,799.53	54.12	138.85	53.76	1,841.08	4,643.70	2,867.67	2,697.14	170.53	16.817		
7,656.30	7,025.36	15,328.85	7,799.70	54.62	138.54	53.34	1,858.96	4,643.40	2,832.92	2,661.59	171.34	16.534		
7,700.00	7,064.54	15,316.55	7,799.81	55.00	138.32	42.57	1,871.25	4,643.20	2,806.07	2,634.10	171.98	16.316		
7,750.00	7,110.29	15,306.45	7,799.90	55.40	138.15	28.40	1,881.35	4,643.03	2,775.27	2,602.54	172.73	16.067		
7,800.00	7,156.67	15,300.66	7,799.95	55.75	138.05	12.50	1,887.14	4,642.93	2,744.65	2,571.14	173.50	15.819		
7,850.00	7,203.34	15,299.21	7,799.97	56.05	138.02	-4.28	1,888.59	4,642.91	2,714.47	2,540.19	174.28	15.575		
7,900.00	7,249.95	15,302.12	7,799.94	56.30	138.07	-20.54	1,885.68	4,642.96	2,685.01	2,509.94	175.06	15.337		
7,950.00	7,296.14	15,309.37	7,799.87	56.50	138.20	-35.07	1,878.43	4,643.08	2,656.48	2,480.64	175.84	15.107		
8,000.00	7,341.56	15,320.90	7,799.77	56.64	138.40	-47.31	1,866.91	4,643.27	2,629.12	2,452.50	176.62	14.886		
8,050.00	7,385.86	15,336.62	7,799.63	56.74	138.67	-57.29	1,851.18	4,643.53	2,603.10	2,425.72	177.38	14.675		
8,100.00	7,428.71	15,356.42	7,799.45	56.79	139.02	-65.34	1,831.39	4,643.86	2,578.60	2,400.47	178.13	14.476		
8,150.00	7,469.77	15,353.00	7,799.48	56.80	138.96	-72.36	1,834.81	4,643.80	2,555.90	2,377.81	178.09	14.352		
8,200.00	7,508.75	15,353.00	7,799.48	56.77	138.96	-78.05	1,834.81	4,643.80	2,535.27	2,357.26	178.01	14.242		
8,250.00	7,545.33	15,353.00	7,799.48	56.70	138.96	-82.70	1,834.81	4,643.80	2,516.92	2,339.13	177.80	14.156		
8,300.00	7,579.25	15,353.00	7,799.48	56.59	138.96	-86.48	1,834.81	4,643.80	2,501.05	2,323.60	177.45	14.094		
8,350.00	7,610.24	15,353.00	7,799.48	56.45	138.96	-89.52	1,834.81	4,643.80	2,487.82	2,310.85	176.97	14.058		
8,400.00	7,638.06	15,353.00	7,799.48	56.28	138.96	-91.92	1,834.81	4,643.80	2,477.37	2,301.00	176.37	14.046 SF		
8,450.00	7,662.52	15,353.00	7,799.48	56.09	138.96	-93.75	1,834.81	4,643.80	2,469.83	2,294.17	175.66	14.060		
8,500.00	7,683.41	15,353.00	7,799.48	55.88	138.96	-95.06	1,834.81	4,643.80	2,465.27	2,290.41	174.86	14.099		
8,549.90	7,700.56	15,353.00	7,799.48	55.64	138.96	-95.89	1,834.81	4,643.80	2,463.75	2,289.78	173.98	14.162 CC, ES		
8,550.00	7,700.59	15,353.00	7,799.48	55.64	138.96	-95.90	1,834.81	4,643.80	2,463.75	2,289.78	173.97	14.162		
8,600.00	7,713.91	15,353.00	7,799.48	55.39	138.96	-96.27	1,834.81	4,643.80	2,465.28	2,292.27	173.02	14.249		
8,650.00	7,723.29	15,353.00	7,799.48	55.14	138.96	-96.21	1,834.81	4,643.80	2,469.85	2,297.84	172.01	14.359		
8,700.00	7,728.64	15,353.00	7,799.48	54.87	138.96	-95.73	1,834.81	4,643.80	2,477.41	2,306.44	170.97	14.490		
8,740.83	7,730.00	15,353.00	7,799.48	54.65	138.96	-95.01	1,834.81	4,643.80	2,485.74	2,315.63	170.10	14.613		
8,800.00	7,730.00	15,353.00	7,799.48	54.33	138.96	-95.01	1,834.81	4,643.80	2,499.84	2,330.99	168.85	14.805		
8,900.00	7,730.00	15,353.00	7,799.48	53.82	138.96	-95.01	1,834.81	4,643.80	2,526.65	2,359.82	166.83	15.145		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	15,353.00	7,799.48	53.33	138.96	-95.01	1,834.81	4,643.80	2,557.09	2,392.17	164.92	15.505		
9,100.00	7,730.00	15,353.00	7,799.48	52.87	138.96	-95.01	1,834.81	4,643.80	2,591.04	2,427.89	163.15	15.881		
9,200.00	7,730.00	15,353.00	7,799.48	52.44	138.96	-95.01	1,834.81	4,643.80	2,628.36	2,466.83	161.53	16.272		
9,300.00	7,730.00	15,353.00	7,799.48	52.03	138.96	-95.01	1,834.81	4,643.80	2,668.90	2,508.87	160.03	16.677		
9,400.00	7,730.00	15,353.00	7,799.48	51.65	138.96	-95.01	1,834.81	4,643.80	2,712.52	2,553.86	158.66	17.097		
9,500.00	7,730.00	15,353.00	7,799.48	51.29	138.96	-95.01	1,834.81	4,643.80	2,759.08	2,601.69	157.40	17.530		
9,600.00	7,730.00	15,353.00	7,799.48	50.95	138.96	-95.01	1,834.81	4,643.80	2,808.43	2,652.21	156.23	17.977		
9,700.00	7,730.00	15,353.00	7,799.48	50.64	138.96	-95.01	1,834.81	4,643.80	2,860.43	2,705.30	155.13	18.439		
9,800.00	7,730.00	15,353.00	7,799.48	50.35	138.96	-95.01	1,834.81	4,643.80	2,914.93	2,760.83	154.10	18.916		
9,900.00	7,730.00	15,353.00	7,799.48	50.09	138.96	-95.01	1,834.81	4,643.80	2,971.80	2,818.68	153.12	19.408		
10,000.00	7,730.00	15,353.00	7,799.48	49.86	138.96	-95.01	1,834.81	4,643.80	3,030.90	2,878.72	152.18	19.917		
10,100.00	7,730.00	15,353.00	7,799.48	49.65	138.96	-95.01	1,834.81	4,643.80	3,092.10	2,940.84	151.27	20.441		
10,200.00	7,730.00	15,353.00	7,799.48	49.48	138.96	-95.01	1,834.81	4,643.80	3,155.29	3,004.91	150.38	20.982		
10,300.00	7,730.00	15,353.00	7,799.48	49.35	138.96	-95.01	1,834.81	4,643.80	3,220.35	3,070.83	149.52	21.538		
10,400.00	7,730.00	15,353.00	7,799.48	49.27	138.96	-95.01	1,834.81	4,643.80	3,287.15	3,138.48	148.67	22.110		
10,500.00	7,730.00	15,353.00	7,799.48	49.26	138.96	-95.01	1,834.81	4,643.80	3,355.61	3,207.77	147.84	22.697		
10,600.00	7,730.00	15,353.00	7,799.48	49.32	138.96	-95.01	1,834.81	4,643.80	3,425.63	3,278.60	147.03	23.299		
10,700.00	7,730.00	15,353.00	7,799.48	49.51	138.96	-95.01	1,834.81	4,643.80	3,497.09	3,350.87	146.23	23.916		
10,800.00	7,730.00	15,353.00	7,799.48	49.83	138.96	-95.01	1,834.81	4,643.80	3,569.93	3,424.50	145.44	24.546		
10,900.00	7,730.00	15,353.00	7,799.48	50.31	138.96	-95.01	1,834.81	4,643.80	3,644.06	3,499.40	144.66	25.190		
11,000.00	7,730.00	15,353.00	7,799.48	50.96	138.96	-95.01	1,834.81	4,643.80	3,719.40	3,575.50	143.90	25.847		
11,100.00	7,730.00	15,353.00	7,799.48	51.75	138.96	-95.01	1,834.81	4,643.80	3,795.88	3,652.73	143.15	26.517		
11,200.00	7,730.00	15,353.00	7,799.48	52.66	138.96	-95.01	1,834.81	4,643.80	3,873.43	3,731.02	142.41	27.198		
11,300.00	7,730.00	15,353.00	7,799.48	53.67	138.96	-95.01	1,834.81	4,643.80	3,951.99	3,810.30	141.69	27.891		
11,400.00	7,730.00	15,353.00	7,799.48	54.75	138.96	-95.01	1,834.81	4,643.80	4,031.50	3,890.51	140.99	28.595		
11,500.00	7,730.00	15,353.00	7,799.48	55.89	138.96	-95.01	1,834.81	4,643.80	4,111.90	3,971.61	140.29	29.309		
11,600.00	7,730.00	15,353.00	7,799.48	57.07	138.96	-95.01	1,834.81	4,643.80	4,193.15	4,053.54	139.61	30.034		
11,700.00	7,730.00	15,353.00	7,799.48	58.30	138.96	-95.01	1,834.81	4,643.80	4,275.19	4,136.24	138.95	30.768		
11,800.00	7,730.00	15,353.00	7,799.48	59.55	138.96	-95.01	1,834.81	4,643.80	4,357.99	4,219.68	138.30	31.511		
11,900.00	7,730.00	15,353.00	7,799.48	60.84	138.96	-95.01	1,834.81	4,643.80	4,441.49	4,303.82	137.67	32.262		
12,000.00	7,730.00	15,353.00	7,799.48	62.15	138.96	-95.01	1,834.81	4,643.80	4,525.66	4,388.61	137.05	33.022		
12,100.00	7,730.00	15,353.00	7,799.48	63.49	138.96	-95.01	1,834.81	4,643.80	4,610.46	4,474.01	136.45	33.790		
12,200.00	7,730.00	15,353.00	7,799.48	64.85	138.96	-95.01	1,834.81	4,643.80	4,695.86	4,560.00	135.86	34.565		
12,300.00	7,730.00	15,353.00	7,799.48	66.22	138.96	-95.01	1,834.81	4,643.80	4,781.83	4,646.54	135.28	35.347		
12,400.00	7,730.00	15,353.00	7,799.48	67.62	138.96	-95.01	1,834.81	4,643.80	4,868.33	4,733.61	134.72	36.136		
12,500.00	7,730.00	15,353.00	7,799.48	69.03	138.96	-95.01	1,834.81	4,643.80	4,955.34	4,821.16	134.18	36.932		
12,600.00	7,730.00	15,353.00	7,799.48	70.45	138.96	-95.01	1,834.81	4,643.80	5,042.83	4,909.19	133.65	37.733		
12,700.00	7,730.00	15,353.00	7,799.48	71.90	138.96	-95.01	1,834.81	4,643.80	5,130.78	4,997.65	133.13	38.540		
12,800.00	7,730.00	15,353.00	7,799.48	73.35	138.96	-95.01	1,834.81	4,643.80	5,219.16	5,086.54	132.62	39.353		
12,900.00	7,730.00	15,353.00	7,799.48	74.81	138.96	-95.01	1,834.81	4,643.80	5,307.96	5,175.82	132.13	40.171		
13,000.00	7,730.00	15,353.00	7,799.48	76.29	138.96	-95.01	1,834.81	4,643.80	5,397.15	5,265.49	131.66	40.994		
13,100.00	7,730.00	15,353.00	7,799.48	77.78	138.96	-95.01	1,834.81	4,643.80	5,486.71	5,355.51	131.19	41.821		
13,200.00	7,730.00	15,353.00	7,799.48	79.28	138.96	-95.01	1,834.81	4,643.80	5,576.62	5,445.88	130.74	42.653		
13,300.00	7,730.00	15,353.00	7,799.48	80.79	138.96	-95.01	1,834.81	4,643.80	5,666.87	5,536.57	130.31	43.489		
13,400.00	7,730.00	15,353.00	7,799.48	82.31	138.96	-95.01	1,834.81	4,643.80	5,757.45	5,627.57	129.88	44.329		
13,500.00	7,730.00	15,353.00	7,799.48	83.84	138.96	-95.01	1,834.81	4,643.80	5,848.33	5,718.87	129.47	45.173		
13,600.00	7,730.00	15,353.00	7,799.48	85.37	138.96	-95.01	1,834.81	4,643.80	5,939.51	5,810.44	129.06	46.020		
13,700.00	7,730.00	15,353.00	7,799.48	86.92	138.96	-95.01	1,834.81	4,643.80	6,030.96	5,902.29	128.67	46.871		
13,800.00	7,730.00	15,353.00	7,799.48	88.47	138.96	-95.01	1,834.81	4,643.80	6,122.68	5,994.39	128.29	47.725		
13,900.00	7,730.00	15,353.00	7,799.48	90.03	138.96	-95.01	1,834.81	4,643.80	6,214.66	6,086.74	127.92	48.582		
14,000.00	7,730.00	15,353.00	7,799.48	91.59	138.96	-95.01	1,834.81	4,643.80	6,306.88	6,179.32	127.56	49.442		
14,100.00	7,730.00	15,353.00	7,799.48	93.16	138.96	-95.01	1,834.81	4,643.80	6,399.34	6,272.13	127.21	50.304		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	138.96	-95.01	1,834.81	4,643.80	6,492.02	6,365.14	126.87	51.169		
14,300.00	7,730.00	15,353.00	7,799.48	96.33	138.96	-95.01	1,834.81	4,643.80	6,584.91	6,458.37	126.55	52.036		
14,400.00	7,730.00	15,353.00	7,799.48	97.92	138.96	-95.01	1,834.81	4,643.80	6,678.01	6,551.79	126.23	52.906		
14,500.00	7,730.00	15,353.00	7,799.48	99.51	138.96	-95.01	1,834.81	4,643.80	6,771.31	6,645.39	125.91	53.777		
14,600.00	7,730.00	15,353.00	7,799.48	101.11	138.96	-95.01	1,834.81	4,643.80	6,864.79	6,739.18	125.61	54.651		
14,700.00	7,730.00	15,353.00	7,799.48	102.72	138.96	-95.01	1,834.81	4,643.80	6,958.46	6,833.14	125.32	55.526		
14,800.00	7,730.00	15,353.00	7,799.48	104.33	138.96	-95.01	1,834.81	4,643.80	7,052.30	6,927.26	125.03	56.403		
14,900.00	7,730.00	15,353.00	7,799.48	105.94	138.96	-95.01	1,834.81	4,643.80	7,146.30	7,021.55	124.76	57.282		
15,000.00	7,730.00	15,353.00	7,799.48	107.56	138.96	-95.01	1,834.81	4,643.80	7,240.47	7,115.98	124.49	58.162		
15,100.00	7,730.00	15,353.00	7,799.48	109.18	138.96	-95.01	1,834.81	4,643.80	7,334.79	7,210.57	124.23	59.044		
15,200.00	7,730.00	15,353.00	7,799.48	110.81	138.96	-95.01	1,834.81	4,643.80	7,429.26	7,305.29	123.97	59.927		
15,300.00	7,730.00	15,353.00	7,799.48	112.44	138.96	-95.01	1,834.81	4,643.80	7,523.87	7,400.15	123.73	60.811		
15,400.00	7,730.00	15,353.00	7,799.48	114.08	138.96	-95.01	1,834.81	4,643.80	7,618.63	7,495.14	123.49	61.696		
15,500.00	7,730.00	15,353.00	7,799.48	115.72	138.96	-95.01	1,834.81	4,643.80	7,713.51	7,590.25	123.25	62.582		
15,600.00	7,730.00	15,353.00	7,799.48	117.36	138.96	-95.01	1,834.81	4,643.80	7,808.52	7,685.49	123.03	63.469		
15,700.00	7,730.00	15,353.00	7,799.48	119.00	138.96	-95.01	1,834.81	4,643.80	7,903.65	7,780.84	122.81	64.357		
15,800.00	7,730.00	15,353.00	7,799.48	120.65	138.96	-95.01	1,834.81	4,643.80	7,998.91	7,876.31	122.60	65.246		
15,900.00	7,730.00	15,353.00	7,799.48	122.30	138.96	-95.01	1,834.81	4,643.80	8,094.27	7,971.88	122.39	66.136		
16,000.00	7,730.00	15,353.00	7,799.48	123.96	138.96	-95.01	1,834.81	4,643.80	8,189.75	8,067.56	122.19	67.026		
16,100.00	7,730.00	15,353.00	7,799.48	125.61	138.96	-95.01	1,834.81	4,643.80	8,285.34	8,163.34	121.99	67.917		
16,200.00	7,730.00	15,353.00	7,799.48	127.27	138.96	-95.01	1,834.81	4,643.80	8,381.02	8,259.22	121.80	68.808		
16,300.00	7,730.00	15,353.00	7,799.48	128.94	138.96	-95.01	1,834.81	4,643.80	8,476.81	8,355.19	121.62	69.700		
16,400.00	7,730.00	15,353.00	7,799.48	130.60	138.96	-95.01	1,834.81	4,643.80	8,572.69	8,451.25	121.44	70.592		
16,500.00	7,730.00	15,353.00	7,799.48	132.27	138.96	-95.01	1,834.81	4,643.80	8,668.67	8,547.40	121.27	71.484		
16,600.00	7,730.00	15,353.00	7,799.48	133.94	138.96	-95.01	1,834.81	4,643.80	8,764.74	8,643.64	121.10	72.377		
16,700.00	7,730.00	15,353.00	7,799.48	135.61	138.96	-95.01	1,834.81	4,643.80	8,860.89	8,739.95	120.93	73.270		
16,800.00	7,730.00	15,353.00	7,799.48	137.28	138.96	-95.01	1,834.81	4,643.80	8,957.13	8,836.35	120.78	74.163		
16,900.00	7,730.00	15,353.00	7,799.48	138.96	138.96	-95.01	1,834.81	4,643.80	9,053.45	8,932.82	120.62	75.056		
17,000.00	7,730.00	15,353.00	7,799.48	140.64	138.96	-95.01	1,834.81	4,643.80	9,149.84	9,029.37	120.47	75.950		
17,100.00	7,730.00	15,353.00	7,799.48	142.32	138.96	-95.01	1,834.81	4,643.80	9,246.32	9,125.99	120.33	76.843		
17,200.00	7,730.00	15,353.00	7,799.48	144.00	138.96	-95.01	1,834.81	4,643.80	9,342.87	9,222.68	120.19	77.737		
17,300.00	7,730.00	15,353.00	7,799.48	145.69	138.96	-95.01	1,834.81	4,643.80	9,439.49	9,319.44	120.05	78.630		
17,400.00	7,730.00	15,353.00	7,799.48	147.37	138.96	-95.01	1,834.81	4,643.80	9,536.18	9,416.26	119.92	79.523		
17,500.00	7,730.00	15,353.00	7,799.48	149.06	138.96	-95.01	1,834.81	4,643.80	9,632.94	9,513.15	119.79	80.416		
17,600.00	7,730.00	15,353.00	7,799.48	150.75	138.96	-95.01	1,834.81	4,643.80	9,729.76	9,610.10	119.66	81.309		
17,700.00	7,730.00	15,353.00	7,799.48	152.44	138.96	-95.01	1,834.81	4,643.80	9,826.65	9,707.10	119.54	82.202		
17,800.00	7,730.00	15,353.00	7,799.48	154.13	138.96	-95.01	1,834.81	4,643.80	9,923.59	9,804.17	119.43	83.095		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	69.68	1,844.23	4,979.49	9,444.48					
100.00	100.00	15,243.00	7,668.35	0.13	138.66	69.68	1,844.23	4,979.49	9,361.95	9,270.55	91.40	102.433		
200.00	200.00	15,243.00	7,668.35	0.49	138.66	69.68	1,844.23	4,979.49	9,279.76	9,187.92	91.84	101.039		
300.00	300.00	15,243.00	7,668.35	0.85	138.66	69.68	1,844.23	4,979.49	9,197.93	9,105.61	92.32	99.627		
400.00	400.00	15,243.00	7,668.35	1.21	138.66	69.68	1,844.23	4,979.49	9,116.46	9,023.62	92.84	98.197		
500.00	500.00	15,243.00	7,668.35	1.57	138.66	69.68	1,844.23	4,979.49	9,035.36	8,941.98	93.39	96.753		
600.00	600.00	15,243.00	7,668.35	1.93	138.66	69.68	1,844.23	4,979.49	8,954.65	8,860.68	93.96	95.300		
700.00	700.00	15,243.00	7,668.35	2.29	138.66	69.68	1,844.23	4,979.49	8,874.33	8,779.76	94.57	93.840		
800.00	800.00	15,243.00	7,668.35	2.64	138.66	69.68	1,844.23	4,979.49	8,794.41	8,699.21	95.20	92.378		
900.00	900.00	15,243.00	7,668.35	3.00	138.66	69.68	1,844.23	4,979.49	8,714.90	8,619.05	95.86	90.916		
1,000.00	1,000.00	15,243.00	7,668.35	3.36	138.66	69.68	1,844.23	4,979.49	8,635.82	8,539.29	96.53	89.459		
1,100.00	1,100.00	15,243.00	7,668.35	3.72	138.66	69.68	1,844.23	4,979.49	8,557.18	8,459.95	97.23	88.007		
1,200.00	1,200.00	15,243.00	7,668.35	4.08	138.66	69.68	1,844.23	4,979.49	8,478.99	8,381.04	97.95	86.563		
1,300.00	1,299.98	15,243.00	7,668.35	4.43	138.66	23.56	1,844.23	4,979.49	8,400.26	8,301.57	98.69	85.119		
1,400.00	1,399.84	15,243.00	7,668.35	4.79	138.66	24.65	1,844.23	4,979.49	8,320.03	8,220.60	99.43	83.678		
1,500.00	1,499.45	15,243.00	7,668.35	5.15	138.66	25.86	1,844.23	4,979.49	8,238.35	8,138.19	100.16	82.253		
1,600.00	1,598.70	15,243.00	7,668.35	5.51	138.66	27.20	1,844.23	4,979.49	8,155.27	8,054.39	100.88	80.842		
1,700.00	1,697.47	15,243.00	7,668.35	5.89	138.66	28.67	1,844.23	4,979.49	8,070.87	7,969.28	101.59	79.447		
1,800.00	1,795.62	15,243.00	7,668.35	6.28	138.66	30.31	1,844.23	4,979.49	7,985.20	7,882.92	102.29	78.067		
1,900.00	1,893.06	15,243.00	7,668.35	6.69	138.66	32.12	1,844.23	4,979.49	7,898.33	7,795.36	102.97	76.703		
2,000.00	1,889.64	15,243.00	7,668.35	7.13	138.66	34.15	1,844.23	4,979.49	7,810.32	7,706.67	103.65	75.355		
2,100.00	2,085.27	15,243.00	7,668.35	7.61	138.66	36.41	1,844.23	4,979.49	7,721.24	7,616.93	104.31	74.022		
2,200.00	2,179.82	15,243.00	7,668.35	8.12	138.66	38.95	1,844.23	4,979.49	7,631.18	7,526.22	104.96	72.704		
2,300.00	2,273.17	15,243.00	7,668.35	8.67	138.66	41.79	1,844.23	4,979.49	7,540.20	7,434.59	105.60	71.402		
2,400.00	2,365.21	15,243.00	7,668.35	9.27	138.66	44.97	1,844.23	4,979.49	7,448.38	7,342.14	106.23	70.115		
2,500.00	2,455.84	15,243.00	7,668.35	9.92	138.66	48.54	1,844.23	4,979.49	7,355.80	7,248.95	106.85	68.843		
2,580.62	2,527.80	15,243.00	7,668.35	10.49	138.66	51.71	1,844.23	4,979.49	7,280.68	7,173.34	107.34	67.828		
2,600.00	2,544.97	15,243.00	7,668.35	10.63	138.66	51.71	1,844.23	4,979.49	7,262.57	7,155.11	107.46	67.585		
2,700.00	2,633.58	15,243.00	7,668.35	11.37	138.66	51.71	1,844.23	4,979.49	7,169.26	7,061.19	108.07	66.338		
2,800.00	2,722.19	15,243.00	7,668.35	12.13	138.66	51.71	1,844.23	4,979.49	7,076.14	6,967.43	108.71	65.093		
2,900.00	2,810.80	15,243.00	7,668.35	12.91	138.66	51.71	1,844.23	4,979.49	6,983.20	6,873.83	109.37	63.851		
3,000.00	2,899.41	15,243.00	7,668.35	13.71	138.66	51.71	1,844.23	4,979.49	6,890.46	6,780.41	110.05	62.613		
3,100.00	2,988.02	15,243.00	7,668.35	14.52	138.66	51.71	1,844.23	4,979.49	6,797.93	6,687.18	110.75	61.380		
3,200.00	3,076.63	15,243.00	7,668.35	15.34	138.66	51.71	1,844.23	4,979.49	6,705.61	6,594.13	111.48	60.151		
3,300.00	3,165.24	15,243.00	7,668.35	16.16	138.66	51.71	1,844.23	4,979.49	6,613.51	6,501.28	112.23	58.927		
3,400.00	3,253.85	15,243.00	7,668.35	17.00	138.66	51.71	1,844.23	4,979.49	6,521.65	6,408.64	113.01	57.710		
3,500.00	3,342.46	15,243.00	7,668.35	17.84	138.66	51.71	1,844.23	4,979.49	6,430.03	6,316.22	113.81	56.499		
3,600.00	3,431.07	15,243.00	7,668.35	18.69	138.66	51.71	1,844.23	4,979.49	6,338.66	6,224.03	114.63	55.295		
3,700.00	3,519.68	15,243.00	7,668.35	19.55	138.66	51.71	1,844.23	4,979.49	6,247.56	6,132.08	115.48	54.099		
3,800.00	3,608.29	15,243.00	7,668.35	20.40	138.66	51.71	1,844.23	4,979.49	6,156.74	6,040.38	116.36	52.911		
3,900.00	3,696.90	15,243.00	7,668.35	21.26	138.66	51.71	1,844.23	4,979.49	6,066.20	5,948.93	117.26	51.731		
4,000.00	3,785.51	15,243.00	7,668.35	22.13	138.66	51.71	1,844.23	4,979.49	5,975.96	5,857.77	118.19	50.560		
4,100.00	3,874.12	15,243.00	7,668.35	23.00	138.66	51.71	1,844.23	4,979.49	5,886.04	5,766.89	119.15	49.399		
4,200.00	3,962.73	15,243.00	7,668.35	23.87	138.66	51.71	1,844.23	4,979.49	5,796.45	5,676.32	120.14	48.248		
4,300.00	4,051.34	15,243.00	7,668.35	24.74	138.66	51.71	1,844.23	4,979.49	5,707.21	5,586.06	121.15	47.107		
4,400.00	4,139.95	15,243.00	7,668.35	25.62	138.66	51.71	1,844.23	4,979.49	5,618.33	5,496.13	122.20	45.977		
4,500.00	4,228.56	15,243.00	7,668.35	26.49	138.66	51.71	1,844.23	4,979.49	5,529.83	5,406.55	123.28	44.857		
4,600.00	4,317.17	15,243.00	7,668.35	27.37	138.66	51.71	1,844.23	4,979.49	5,441.72	5,317.34	124.38	43.750		
4,700.00	4,405.78	15,243.00	7,668.35	28.25	138.66	51.71	1,844.23	4,979.49	5,354.04	5,228.52	125.52	42.654		
4,800.00	4,494.39	15,243.00	7,668.35	29.13	138.66	51.71	1,844.23	4,979.49	5,266.79	5,140.10	126.69	41.571		
4,900.00	4,583.00	15,243.00	7,668.35	30.02	138.66	51.71	1,844.23	4,979.49	5,180.01	5,052.11	127.90	40.501		
5,000.00	4,671.61	15,243.00	7,668.35	30.90	138.66	51.71	1,844.23	4,979.49	5,093.71	4,964.57	129.14	39.444		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	15,243.00	7,668.35	31.79	138.66	51.71	1,844.23	4,979.49	5,007.91	4,877.50	130.41	38.400		
5,200.00	4,848.83	15,243.00	7,668.35	32.67	138.66	51.71	1,844.23	4,979.49	4,922.66	4,790.93	131.72	37.371		
5,300.00	4,937.44	15,243.00	7,668.35	33.56	138.66	51.71	1,844.23	4,979.49	4,837.97	4,704.90	133.07	36.356		
5,400.00	5,026.05	15,243.00	7,668.35	34.45	138.66	51.71	1,844.23	4,979.49	4,753.87	4,619.42	134.46	35.356		
5,500.00	5,114.66	15,243.00	7,668.35	35.34	138.66	51.71	1,844.23	4,979.49	4,670.40	4,534.52	135.88	34.371		
5,600.00	5,203.27	15,243.00	7,668.35	36.23	138.66	51.71	1,844.23	4,979.49	4,587.60	4,450.26	137.34	33.403		
5,700.00	5,291.88	15,243.00	7,668.35	37.12	138.66	51.71	1,844.23	4,979.49	4,505.49	4,366.64	138.84	32.450		
5,800.00	5,380.50	15,243.00	7,668.35	38.01	138.66	51.71	1,844.23	4,979.49	4,424.11	4,283.73	140.38	31.515		
5,900.00	5,469.11	15,243.00	7,668.35	38.90	138.66	51.71	1,844.23	4,979.49	4,343.52	4,201.56	141.96	30.596		
6,000.00	5,557.72	15,243.00	7,668.35	39.79	138.66	51.71	1,844.23	4,979.49	4,263.75	4,120.16	143.58	29.695		
6,100.00	5,646.33	15,243.00	7,668.35	40.68	138.66	51.71	1,844.23	4,979.49	4,184.84	4,039.60	145.24	28.813		
6,200.00	5,734.94	15,243.00	7,668.35	41.58	138.66	51.71	1,844.23	4,979.49	4,106.86	3,959.91	146.94	27.949		
6,300.00	5,823.55	15,243.00	7,668.35	42.47	138.66	51.71	1,844.23	4,979.49	4,029.84	3,881.16	148.68	27.104		
6,400.00	5,912.16	15,243.00	7,668.35	43.36	138.66	51.71	1,844.23	4,979.49	3,953.86	3,803.40	150.46	26.279		
6,500.00	6,000.77	15,243.00	7,668.35	44.26	138.66	51.71	1,844.23	4,979.49	3,878.96	3,726.69	152.27	25.474		
6,600.00	6,089.38	15,243.00	7,668.35	45.15	138.66	51.71	1,844.23	4,979.49	3,805.22	3,651.11	154.12	24.690		
6,700.00	6,177.99	15,243.00	7,668.35	46.05	138.66	51.71	1,844.23	4,979.49	3,732.71	3,576.71	156.00	23.928		
6,800.00	6,266.60	15,243.00	7,668.35	46.94	138.66	51.71	1,844.23	4,979.49	3,661.49	3,503.57	157.91	23.187		
6,900.00	6,355.21	15,243.00	7,668.35	47.84	138.66	51.71	1,844.23	4,979.49	3,591.64	3,431.78	159.85	22.468		
7,000.00	6,443.82	15,243.00	7,668.35	48.74	138.66	51.71	1,844.23	4,979.49	3,523.24	3,361.42	161.82	21.773		
7,100.00	6,532.43	15,243.00	7,668.35	49.63	138.66	51.71	1,844.23	4,979.49	3,456.38	3,292.58	163.80	21.101		
7,200.00	6,621.04	15,243.00	7,668.35	50.53	138.66	51.71	1,844.23	4,979.49	3,391.16	3,225.36	165.79	20.454		
7,300.00	6,709.65	15,243.00	7,668.35	51.42	138.66	51.71	1,844.23	4,979.49	3,327.66	3,159.86	167.80	19.832		
7,400.00	6,798.26	15,243.00	7,668.35	52.32	138.66	51.71	1,844.23	4,979.49	3,265.99	3,096.19	169.80	19.234		
7,500.00	6,886.87	15,237.48	7,668.31	53.22	138.56	51.60	1,849.76	4,979.37	3,206.25	3,034.59	171.66	18.678		
7,600.00	6,975.48	15,207.39	7,668.08	54.12	138.04	50.98	1,879.83	4,978.69	3,148.36	2,975.46	172.90	18.209		
7,656.30	7,025.36	15,190.46	7,667.95	54.62	137.74	50.63	1,896.76	4,978.31	3,116.58	2,942.99	173.59	17.954		
7,700.00	7,064.54	15,188.00	7,667.93	55.00	137.70	40.52	1,899.22	4,978.25	3,092.10	2,917.76	174.35	17.735		
7,750.00	7,110.29	15,188.00	7,667.93	55.40	137.70	27.13	1,899.22	4,978.25	3,064.16	2,888.95	175.21	17.489		
7,800.00	7,156.67	15,172.84	7,667.84	55.75	137.44	11.58	1,914.37	4,977.93	3,036.42	2,860.83	175.59	17.292		
7,850.00	7,203.34	15,172.36	7,667.83	56.05	137.43	-4.63	1,914.86	4,977.92	3,009.23	2,832.98	176.24	17.074		
7,900.00	7,249.95	15,174.75	7,667.84	56.30	137.47	-20.39	1,912.46	4,977.97	2,982.76	2,805.92	176.85	16.866		
7,950.00	7,296.14	15,188.00	7,667.93	56.50	137.70	-34.31	1,899.22	4,978.25	2,957.26	2,779.65	177.62	16.650		
8,000.00	7,341.56	15,188.52	7,667.93	56.64	137.71	-46.36	1,898.70	4,978.27	2,932.88	2,754.93	177.95	16.482		
8,050.00	7,385.86	15,205.09	7,668.06	56.74	138.00	-55.96	1,882.14	4,978.64	2,909.81	2,731.24	178.57	16.295		
8,100.00	7,428.71	15,225.70	7,668.22	56.79	138.36	-63.67	1,861.53	4,979.10	2,888.18	2,708.99	179.19	16.118		
8,150.00	7,469.77	15,243.00	7,668.35	56.80	138.66	-69.98	1,844.23	4,979.49	2,868.11	2,688.50	179.61	15.969		
8,200.00	7,508.75	15,243.00	7,668.35	56.77	138.66	-75.40	1,844.23	4,979.49	2,849.89	2,670.41	179.47	15.879		
8,250.00	7,545.33	15,243.00	7,668.35	56.70	138.66	-79.84	1,844.23	4,979.49	2,833.73	2,654.50	179.23	15.811		
8,300.00	7,579.25	15,243.00	7,668.35	56.59	138.66	-83.44	1,844.23	4,979.49	2,819.80	2,640.93	178.87	15.764		
8,350.00	7,610.24	15,243.00	7,668.35	56.45	138.66	-86.34	1,844.23	4,979.49	2,808.25	2,629.83	178.42	15.739		
8,400.00	7,638.06	15,243.00	7,668.35	56.28	138.66	-88.64	1,844.23	4,979.49	2,799.18	2,621.30	177.88	15.737 SF		
8,450.00	7,662.52	15,243.00	7,668.35	56.09	138.66	-90.39	1,844.23	4,979.49	2,792.69	2,615.44	177.25	15.755		
8,500.00	7,683.41	15,243.00	7,668.35	55.88	138.66	-91.64	1,844.23	4,979.49	2,788.85	2,612.29	176.56	15.796		
8,546.30	7,699.45	15,243.00	7,668.35	55.66	138.66	-92.40	1,844.23	4,979.49	2,787.69	2,611.83	175.86	15.851 CC, ES		
8,550.00	7,700.59	15,243.00	7,668.35	55.64	138.66	-92.44	1,844.23	4,979.49	2,787.70	2,611.89	175.81	15.857		
8,600.00	7,713.91	15,243.00	7,668.35	55.39	138.66	-92.82	1,844.23	4,979.49	2,789.25	2,614.24	175.01	15.938		
8,650.00	7,723.29	15,243.00	7,668.35	55.14	138.66	-92.77	1,844.23	4,979.49	2,793.49	2,619.30	174.18	16.038		
8,700.00	7,728.64	15,243.00	7,668.35	54.87	138.66	-92.33	1,844.23	4,979.49	2,800.36	2,627.03	173.33	16.156		
8,740.83	7,730.00	15,243.00	7,668.35	54.65	138.66	-91.68	1,844.23	4,979.49	2,807.88	2,635.25	172.63	16.265		
8,800.00	7,730.00	15,243.00	7,668.35	54.33	138.66	-91.68	1,844.23	4,979.49	2,820.60	2,648.97	171.63	16.434		
8,900.00	7,730.00	15,243.00	7,668.35	53.82	138.66	-91.68	1,844.23	4,979.49	2,844.76	2,674.75	170.01	16.733		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	15,243.00	7,668.35	53.33	138.66	-91.68	1,844.23	4,979.49	2,872.20	2,703.70	168.50	17.046		
9,100.00	7,730.00	15,243.00	7,668.35	52.87	138.66	-91.68	1,844.23	4,979.49	2,902.83	2,735.73	167.10	17.372		
9,200.00	7,730.00	15,243.00	7,668.35	52.44	138.66	-91.68	1,844.23	4,979.49	2,936.54	2,770.72	165.82	17.709		
9,300.00	7,730.00	15,243.00	7,668.35	52.03	138.66	-91.68	1,844.23	4,979.49	2,973.24	2,808.58	164.66	18.057		
9,400.00	7,730.00	15,243.00	7,668.35	51.65	138.66	-91.68	1,844.23	4,979.49	3,012.81	2,849.20	163.61	18.414		
9,500.00	7,730.00	15,243.00	7,668.35	51.29	138.66	-91.68	1,844.23	4,979.49	3,055.15	2,892.49	162.66	18.782		
9,600.00	7,730.00	15,243.00	7,668.35	50.95	138.66	-91.68	1,844.23	4,979.49	3,100.13	2,938.34	161.79	19.161		
9,700.00	7,730.00	15,243.00	7,668.35	50.64	138.66	-91.68	1,844.23	4,979.49	3,147.64	2,986.65	161.00	19.551		
9,800.00	7,730.00	15,243.00	7,668.35	50.35	138.66	-91.68	1,844.23	4,979.49	3,197.58	3,037.33	160.26	19.953		
9,900.00	7,730.00	15,243.00	7,668.35	50.09	138.66	-91.68	1,844.23	4,979.49	3,249.83	3,090.27	159.56	20.367		
10,000.00	7,730.00	15,243.00	7,668.35	49.86	138.66	-91.68	1,844.23	4,979.49	3,304.28	3,145.38	158.90	20.794		
10,100.00	7,730.00	15,243.00	7,668.35	49.65	138.66	-91.68	1,844.23	4,979.49	3,360.83	3,202.56	158.27	21.235		
10,200.00	7,730.00	15,243.00	7,668.35	49.48	138.66	-91.68	1,844.23	4,979.49	3,419.36	3,261.71	157.65	21.689		
10,300.00	7,730.00	15,243.00	7,668.35	49.35	138.66	-91.68	1,844.23	4,979.49	3,479.79	3,322.73	157.05	22.157		
10,400.00	7,730.00	15,243.00	7,668.35	49.27	138.66	-91.68	1,844.23	4,979.49	3,542.00	3,385.54	156.46	22.638		
10,500.00	7,730.00	15,243.00	7,668.35	49.26	138.66	-91.68	1,844.23	4,979.49	3,605.92	3,450.05	155.87	23.134		
10,600.00	7,730.00	15,243.00	7,668.35	49.32	138.66	-91.68	1,844.23	4,979.49	3,671.45	3,516.16	155.29	23.643		
10,700.00	7,730.00	15,243.00	7,668.35	49.51	138.66	-91.68	1,844.23	4,979.49	3,738.50	3,583.80	154.71	24.165		
10,800.00	7,730.00	15,243.00	7,668.35	49.83	138.66	-91.68	1,844.23	4,979.49	3,807.01	3,652.87	154.13	24.700		
10,900.00	7,730.00	15,243.00	7,668.35	50.31	138.66	-91.68	1,844.23	4,979.49	3,876.88	3,723.32	153.55	25.248		
11,000.00	7,730.00	15,243.00	7,668.35	50.96	138.66	-91.68	1,844.23	4,979.49	3,948.04	3,795.06	152.98	25.808		
11,100.00	7,730.00	15,243.00	7,668.35	51.75	138.66	-91.68	1,844.23	4,979.49	4,020.44	3,868.03	152.41	26.380		
11,200.00	7,730.00	15,243.00	7,668.35	52.66	138.66	-91.68	1,844.23	4,979.49	4,093.99	3,942.16	151.83	26.964		
11,300.00	7,730.00	15,243.00	7,668.35	53.67	138.66	-91.68	1,844.23	4,979.49	4,168.65	4,017.39	151.27	27.558		
11,400.00	7,730.00	15,243.00	7,668.35	54.75	138.66	-91.68	1,844.23	4,979.49	4,244.35	4,093.65	150.70	28.164		
11,500.00	7,730.00	15,243.00	7,668.35	55.89	138.66	-91.68	1,844.23	4,979.49	4,321.04	4,170.90	150.14	28.780		
11,600.00	7,730.00	15,243.00	7,668.35	57.07	138.66	-91.68	1,844.23	4,979.49	4,398.67	4,249.08	149.59	29.406		
11,700.00	7,730.00	15,243.00	7,668.35	58.30	138.66	-91.68	1,844.23	4,979.49	4,477.18	4,328.15	149.03	30.041		
11,800.00	7,730.00	15,243.00	7,668.35	59.55	138.66	-91.68	1,844.23	4,979.49	4,556.54	4,408.05	148.49	30.686		
11,900.00	7,730.00	15,243.00	7,668.35	60.84	138.66	-91.68	1,844.23	4,979.49	4,636.69	4,488.74	147.95	31.339		
12,000.00	7,730.00	15,243.00	7,668.35	62.15	138.66	-91.68	1,844.23	4,979.49	4,717.60	4,570.19	147.42	32.001		
12,100.00	7,730.00	15,243.00	7,668.35	63.49	138.66	-91.68	1,844.23	4,979.49	4,799.24	4,652.34	146.89	32.671		
12,200.00	7,730.00	15,243.00	7,668.35	64.85	138.66	-91.68	1,844.23	4,979.49	4,881.55	4,735.18	146.38	33.349		
12,300.00	7,730.00	15,243.00	7,668.35	66.22	138.66	-91.68	1,844.23	4,979.49	4,964.52	4,818.65	145.87	34.035		
12,400.00	7,730.00	15,243.00	7,668.35	67.62	138.66	-91.68	1,844.23	4,979.49	5,048.10	4,902.73	145.37	34.727		
12,500.00	7,730.00	15,243.00	7,668.35	69.03	138.66	-91.68	1,844.23	4,979.49	5,132.27	4,987.40	144.87	35.426		
12,600.00	7,730.00	15,243.00	7,668.35	70.45	138.66	-91.68	1,844.23	4,979.49	5,217.00	5,072.61	144.39	36.132		
12,700.00	7,730.00	15,243.00	7,668.35	71.90	138.66	-91.68	1,844.23	4,979.49	5,302.26	5,158.34	143.91	36.844		
12,800.00	7,730.00	15,243.00	7,668.35	73.35	138.66	-91.68	1,844.23	4,979.49	5,388.02	5,244.58	143.45	37.561		
12,900.00	7,730.00	15,243.00	7,668.35	74.81	138.66	-91.68	1,844.23	4,979.49	5,474.27	5,331.29	142.99	38.285		
13,000.00	7,730.00	15,243.00	7,668.35	76.29	138.66	-91.68	1,844.23	4,979.49	5,560.98	5,418.45	142.54	39.014		
13,100.00	7,730.00	15,243.00	7,668.35	77.78	138.66	-91.68	1,844.23	4,979.49	5,648.13	5,506.04	142.10	39.748		
13,200.00	7,730.00	15,243.00	7,668.35	79.28	138.66	-91.68	1,844.23	4,979.49	5,735.70	5,594.04	141.67	40.487		
13,300.00	7,730.00	15,243.00	7,668.35	80.79	138.66	-91.68	1,844.23	4,979.49	5,823.67	5,682.43	141.24	41.231		
13,400.00	7,730.00	15,243.00	7,668.35	82.31	138.66	-91.68	1,844.23	4,979.49	5,912.03	5,771.20	140.83	41.980		
13,500.00	7,730.00	15,243.00	7,668.35	83.84	138.66	-91.68	1,844.23	4,979.49	6,000.74	5,860.32	140.43	42.733		
13,600.00	7,730.00	15,243.00	7,668.35	85.37	138.66	-91.68	1,844.23	4,979.49	6,089.81	5,949.78	140.03	43.490		
13,700.00	7,730.00	15,243.00	7,668.35	86.92	138.66	-91.68	1,844.23	4,979.49	6,179.21	6,039.57	139.64	44.251		
13,800.00	7,730.00	15,243.00	7,668.35	88.47	138.66	-91.68	1,844.23	4,979.49	6,268.94	6,129.67	139.26	45.015		
13,900.00	7,730.00	15,243.00	7,668.35	90.03	138.66	-91.68	1,844.23	4,979.49	6,358.96	6,220.07	138.89	45.784		
14,000.00	7,730.00	15,243.00	7,668.35	91.59	138.66	-91.68	1,844.23	4,979.49	6,449.29	6,310.76	138.53	46.555		
14,100.00	7,730.00	15,243.00	7,668.35	93.16	138.66	-91.68	1,844.23	4,979.49	6,539.89	6,401.72	138.18	47.330		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	138.66	-91.68	1,844.23	4,979.49	6,630.77	6,492.94	137.83	48.109		
14,300.00	7,730.00	15,243.00	7,668.35	96.33	138.66	-91.68	1,844.23	4,979.49	6,721.90	6,584.41	137.49	48.890		
14,400.00	7,730.00	15,243.00	7,668.35	97.92	138.66	-91.68	1,844.23	4,979.49	6,813.28	6,676.12	137.16	49.674		
14,500.00	7,730.00	15,243.00	7,668.35	99.51	138.66	-91.68	1,844.23	4,979.49	6,904.90	6,768.06	136.84	50.460		
14,600.00	7,730.00	15,243.00	7,668.35	101.11	138.66	-91.68	1,844.23	4,979.49	6,996.75	6,860.23	136.52	51.250		
14,700.00	7,730.00	15,243.00	7,668.35	102.72	138.66	-91.68	1,844.23	4,979.49	7,088.82	6,952.61	136.21	52.042		
14,800.00	7,730.00	15,243.00	7,668.35	104.33	138.66	-91.68	1,844.23	4,979.49	7,181.11	7,045.19	135.91	52.836		
14,900.00	7,730.00	15,243.00	7,668.35	105.94	138.66	-91.68	1,844.23	4,979.49	7,273.59	7,137.97	135.62	53.632		
15,000.00	7,730.00	15,243.00	7,668.35	107.56	138.66	-91.68	1,844.23	4,979.49	7,366.28	7,230.94	135.33	54.430		
15,100.00	7,730.00	15,243.00	7,668.35	109.18	138.66	-91.68	1,844.23	4,979.49	7,459.15	7,324.10	135.05	55.231		
15,200.00	7,730.00	15,243.00	7,668.35	110.81	138.66	-91.68	1,844.23	4,979.49	7,552.21	7,417.42	134.78	56.033		
15,300.00	7,730.00	15,243.00	7,668.35	112.44	138.66	-91.68	1,844.23	4,979.49	7,645.44	7,510.92	134.51	56.838		
15,400.00	7,730.00	15,243.00	7,668.35	114.08	138.66	-91.68	1,844.23	4,979.49	7,738.83	7,604.58	134.25	57.644		
15,500.00	7,730.00	15,243.00	7,668.35	115.72	138.66	-91.68	1,844.23	4,979.49	7,832.40	7,698.40	134.00	58.451		
15,600.00	7,730.00	15,243.00	7,668.35	117.36	138.66	-91.68	1,844.23	4,979.49	7,926.12	7,792.36	133.75	59.260		
15,700.00	7,730.00	15,243.00	7,668.35	119.00	138.66	-91.68	1,844.23	4,979.49	8,019.99	7,886.48	133.51	60.071		
15,800.00	7,730.00	15,243.00	7,668.35	120.65	138.66	-91.68	1,844.23	4,979.49	8,114.00	7,980.73	133.27	60.883		
15,900.00	7,730.00	15,243.00	7,668.35	122.30	138.66	-91.68	1,844.23	4,979.49	8,208.16	8,075.12	133.04	61.696		
16,000.00	7,730.00	15,243.00	7,668.35	123.96	138.66	-91.68	1,844.23	4,979.49	8,302.46	8,169.64	132.82	62.511		
16,100.00	7,730.00	15,243.00	7,668.35	125.61	138.66	-91.68	1,844.23	4,979.49	8,396.89	8,264.29	132.60	63.327		
16,200.00	7,730.00	15,243.00	7,668.35	127.27	138.66	-91.68	1,844.23	4,979.49	8,491.44	8,359.06	132.38	64.143		
16,300.00	7,730.00	15,243.00	7,668.35	128.94	138.66	-91.68	1,844.23	4,979.49	8,586.12	8,453.95	132.17	64.961		
16,400.00	7,730.00	15,243.00	7,668.35	130.60	138.66	-91.68	1,844.23	4,979.49	8,680.92	8,548.95	131.97	65.780		
16,500.00	7,730.00	15,243.00	7,668.35	132.27	138.66	-91.68	1,844.23	4,979.49	8,775.83	8,644.06	131.77	66.600		
16,600.00	7,730.00	15,243.00	7,668.35	133.94	138.66	-91.68	1,844.23	4,979.49	8,870.85	8,739.28	131.58	67.420		
16,700.00	7,730.00	15,243.00	7,668.35	135.61	138.66	-91.68	1,844.23	4,979.49	8,965.99	8,834.60	131.39	68.242		
16,800.00	7,730.00	15,243.00	7,668.35	137.28	138.66	-91.68	1,844.23	4,979.49	9,061.23	8,930.03	131.20	69.064		
16,900.00	7,730.00	15,243.00	7,668.35	138.96	138.66	-91.68	1,844.23	4,979.49	9,156.57	9,025.55	131.02	69.887		
17,000.00	7,730.00	15,243.00	7,668.35	140.64	138.66	-91.68	1,844.23	4,979.49	9,252.00	9,121.16	130.84	70.710		
17,100.00	7,730.00	15,243.00	7,668.35	142.32	138.66	-91.68	1,844.23	4,979.49	9,347.54	9,216.86	130.67	71.534		
17,200.00	7,730.00	15,243.00	7,668.35	144.00	138.66	-91.68	1,844.23	4,979.49	9,443.16	9,312.66	130.50	72.359		
17,300.00	7,730.00	15,243.00	7,668.35	145.69	138.66	-91.68	1,844.23	4,979.49	9,538.88	9,408.54	130.34	73.184		
17,400.00	7,730.00	15,243.00	7,668.35	147.37	138.66	-91.68	1,844.23	4,979.49	9,634.68	9,504.50	130.18	74.009		
17,500.00	7,730.00	15,243.00	7,668.35	149.06	138.66	-91.68	1,844.23	4,979.49	9,730.57	9,600.54	130.03	74.835		
17,600.00	7,730.00	15,243.00	7,668.35	150.75	138.66	-91.68	1,844.23	4,979.49	9,826.54	9,696.66	129.87	75.662		
17,700.00	7,730.00	15,243.00	7,668.35	152.44	138.66	-91.68	1,844.23	4,979.49	9,922.58	9,792.86	129.73	76.488		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	65.87	1,823.69	4,071.23	8,906.34					
100.00	100.00	15,134.00	7,566.57	0.13	139.08	65.87	1,823.69	4,071.23	8,819.93	8,733.94	85.98	102.577		
200.00	200.00	15,134.00	7,566.57	0.49	139.08	65.87	1,823.69	4,071.23	8,733.81	8,647.45	86.36	101.131		
300.00	300.00	15,134.00	7,566.57	0.85	139.08	65.87	1,823.69	4,071.23	8,647.99	8,561.22	86.77	99.667		
400.00	400.00	15,134.00	7,566.57	1.21	139.08	65.87	1,823.69	4,071.23	8,562.48	8,475.27	87.21	98.187		
500.00	500.00	15,134.00	7,566.57	1.57	139.08	65.87	1,823.69	4,071.23	8,477.28	8,389.61	87.67	96.694		
600.00	600.00	15,134.00	7,566.57	1.93	139.08	65.87	1,823.69	4,071.23	8,392.41	8,304.25	88.16	95.190		
700.00	700.00	15,134.00	7,566.57	2.29	139.08	65.87	1,823.69	4,071.23	8,307.88	8,219.19	88.68	93.679		
800.00	800.00	15,134.00	7,566.57	2.64	139.08	65.87	1,823.69	4,071.23	8,223.69	8,134.46	89.23	92.164		
900.00	900.00	15,134.00	7,566.57	3.00	139.08	65.87	1,823.69	4,071.23	8,139.87	8,050.07	89.80	90.646		
1,000.00	1,000.00	15,134.00	7,566.57	3.36	139.08	65.87	1,823.69	4,071.23	8,056.41	7,966.02	90.39	89.130		
1,100.00	1,100.00	15,134.00	7,566.57	3.72	139.08	65.87	1,823.69	4,071.23	7,973.33	7,882.33	91.00	87.617		
1,200.00	1,200.00	15,134.00	7,566.57	4.08	139.08	65.87	1,823.69	4,071.23	7,890.64	7,799.01	91.64	86.109		
1,300.00	1,299.98	15,134.00	7,566.57	4.43	139.08	19.74	1,823.69	4,071.23	7,807.44	7,715.15	92.29	84.599		
1,400.00	1,399.84	15,134.00	7,566.57	4.79	139.08	20.84	1,823.69	4,071.23	7,722.82	7,629.88	92.94	83.091		
1,500.00	1,499.45	15,134.00	7,566.57	5.15	139.08	22.07	1,823.69	4,071.23	7,636.86	7,543.26	93.59	81.597		
1,600.00	1,598.70	15,134.00	7,566.57	5.51	139.08	23.45	1,823.69	4,071.23	7,549.60	7,455.37	94.23	80.118		
1,700.00	1,697.47	15,134.00	7,566.57	5.89	139.08	25.01	1,823.69	4,071.23	7,461.12	7,366.26	94.86	78.655		
1,800.00	1,795.62	15,134.00	7,566.57	6.28	139.08	26.78	1,823.69	4,071.23	7,371.48	7,276.01	95.48	77.208		
1,900.00	1,893.06	15,134.00	7,566.57	6.69	139.08	28.79	1,823.69	4,071.23	7,280.75	7,184.67	96.08	75.778		
2,000.00	1,989.64	15,134.00	7,566.57	7.13	139.08	31.09	1,823.69	4,071.23	7,188.99	7,092.32	96.67	74.365		
2,100.00	2,085.27	15,134.00	7,566.57	7.61	139.08	33.74	1,823.69	4,071.23	7,096.29	6,999.04	97.25	72.969		
2,200.00	2,179.82	15,134.00	7,566.57	8.12	139.08	36.81	1,823.69	4,071.23	7,002.72	6,904.90	97.82	71.591		
2,300.00	2,273.17	15,134.00	7,566.57	8.67	139.08	40.36	1,823.69	4,071.23	6,908.36	6,809.99	98.37	70.230		
2,400.00	2,365.21	15,134.00	7,566.57	9.27	139.08	44.49	1,823.69	4,071.23	6,813.30	6,714.39	98.91	68.887		
2,500.00	2,455.84	15,134.00	7,566.57	9.92	139.08	49.30	1,823.69	4,071.23	6,717.62	6,618.19	99.43	67.562		
2,580.62	2,527.80	15,134.00	7,566.57	10.49	139.08	53.71	1,823.69	4,071.23	6,640.10	6,540.26	99.84	66.507		
2,600.00	2,544.97	15,134.00	7,566.57	10.63	139.08	53.71	1,823.69	4,071.23	6,621.43	6,521.49	99.94	66.254		
2,700.00	2,633.58	15,134.00	7,566.57	11.37	139.08	53.71	1,823.69	4,071.23	6,525.17	6,424.71	100.45	64.957		
2,800.00	2,722.19	15,134.00	7,566.57	12.13	139.08	53.71	1,823.69	4,071.23	6,429.01	6,328.02	100.99	63.662		
2,900.00	2,810.80	15,134.00	7,566.57	12.91	139.08	53.71	1,823.69	4,071.23	6,332.98	6,231.43	101.54	62.368		
3,000.00	2,899.41	15,134.00	7,566.57	13.71	139.08	53.71	1,823.69	4,071.23	6,237.07	6,134.95	102.12	61.077		
3,100.00	2,988.02	15,134.00	7,566.57	14.52	139.08	53.71	1,823.69	4,071.23	6,141.28	6,038.57	102.71	59.790		
3,200.00	3,076.63	15,134.00	7,566.57	15.34	139.08	53.71	1,823.69	4,071.23	6,045.64	5,942.31	103.34	58.505		
3,300.00	3,165.24	15,134.00	7,566.57	16.16	139.08	53.71	1,823.69	4,071.23	5,950.14	5,846.16	103.98	57.225		
3,400.00	3,253.85	15,134.00	7,566.57	17.00	139.08	53.71	1,823.69	4,071.23	5,854.79	5,750.15	104.65	55.949		
3,500.00	3,342.46	15,134.00	7,566.57	17.84	139.08	53.71	1,823.69	4,071.23	5,759.60	5,654.26	105.34	54.678		
3,600.00	3,431.07	15,134.00	7,566.57	18.69	139.08	53.71	1,823.69	4,071.23	5,664.57	5,558.52	106.05	53.412		
3,700.00	3,519.68	15,134.00	7,566.57	19.55	139.08	53.71	1,823.69	4,071.23	5,569.72	5,462.92	106.80	52.152		
3,800.00	3,608.29	15,134.00	7,566.57	20.40	139.08	53.71	1,823.69	4,071.23	5,475.05	5,367.48	107.57	50.898		
3,900.00	3,696.90	15,134.00	7,566.57	21.26	139.08	53.71	1,823.69	4,071.23	5,380.57	5,272.21	108.37	49.651		
4,000.00	3,785.51	15,134.00	7,566.57	22.13	139.08	53.71	1,823.69	4,071.23	5,286.30	5,177.11	109.19	48.412		
4,100.00	3,874.12	15,134.00	7,566.57	23.00	139.08	53.71	1,823.69	4,071.23	5,192.24	5,082.19	110.05	47.179		
4,200.00	3,962.73	15,134.00	7,566.57	23.87	139.08	53.71	1,823.69	4,071.23	5,098.41	4,987.47	110.94	45.955		
4,300.00	4,051.34	15,134.00	7,566.57	24.74	139.08	53.71	1,823.69	4,071.23	5,004.81	4,892.95	111.87	44.739		
4,400.00	4,139.95	15,134.00	7,566.57	25.62	139.08	53.71	1,823.69	4,071.23	4,911.47	4,798.65	112.82	43.532		
4,500.00	4,228.56	15,134.00	7,566.57	26.49	139.08	53.71	1,823.69	4,071.23	4,818.40	4,704.58	113.82	42.335		
4,600.00	4,317.17	15,134.00	7,566.57	27.37	139.08	53.71	1,823.69	4,071.23	4,725.61	4,610.76	114.85	41.147		
4,700.00	4,405.78	15,134.00	7,566.57	28.25	139.08	53.71	1,823.69	4,071.23	4,633.12	4,517.20	115.92	39.970		
4,800.00	4,494.39	15,134.00	7,566.57	29.13	139.08	53.71	1,823.69	4,071.23	4,540.94	4,423.92	117.03	38.803		
4,900.00	4,583.00	15,134.00	7,566.57	30.02	139.08	53.71	1,823.69	4,071.23	4,449.11	4,330.93	118.18	37.647		
5,000.00	4,671.61	15,134.00	7,566.57	30.90	139.08	53.71	1,823.69	4,071.23	4,357.63	4,238.26	119.37	36.504		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	15,134.00	7,566.57	31.79	139.08	53.71	1,823.69	4,071.23	4,266.54	4,145.92	120.62	35.372		
5,200.00	4,848.83	15,134.00	7,566.57	32.67	139.08	53.71	1,823.69	4,071.23	4,175.85	4,053.95	121.91	34.254		
5,300.00	4,937.44	15,134.00	7,566.57	33.56	139.08	53.71	1,823.69	4,071.23	4,085.60	3,962.35	123.25	33.149		
5,400.00	5,026.05	15,134.00	7,566.57	34.45	139.08	53.71	1,823.69	4,071.23	3,995.82	3,871.17	124.65	32.057		
5,500.00	5,114.66	15,134.00	7,566.57	35.34	139.08	53.71	1,823.69	4,071.23	3,906.53	3,780.43	126.10	30.981		
5,600.00	5,203.27	15,134.00	7,566.57	36.23	139.08	53.71	1,823.69	4,071.23	3,817.77	3,690.17	127.60	29.919		
5,700.00	5,291.88	15,134.00	7,566.57	37.12	139.08	53.71	1,823.69	4,071.23	3,729.58	3,600.41	129.17	28.873		
5,800.00	5,380.50	15,134.00	7,566.57	38.01	139.08	53.71	1,823.69	4,071.23	3,642.00	3,511.20	130.80	27.844		
5,900.00	5,469.11	15,134.00	7,566.57	38.90	139.08	53.71	1,823.69	4,071.23	3,555.07	3,422.58	132.50	26.832		
6,000.00	5,557.72	15,134.00	7,566.57	39.79	139.08	53.71	1,823.69	4,071.23	3,468.85	3,334.60	134.26	25.837		
6,100.00	5,646.33	15,134.00	7,566.57	40.68	139.08	53.71	1,823.69	4,071.23	3,383.39	3,247.30	136.09	24.861		
6,200.00	5,734.94	15,134.00	7,566.57	41.58	139.08	53.71	1,823.69	4,071.23	3,298.75	3,160.75	138.00	23.905		
6,300.00	5,823.55	15,134.00	7,566.57	42.47	139.08	53.71	1,823.69	4,071.23	3,214.99	3,075.01	139.97	22.968		
6,400.00	5,912.16	15,134.00	7,566.57	43.36	139.08	53.71	1,823.69	4,071.23	3,132.18	2,990.15	142.03	22.053		
6,500.00	6,000.77	15,134.00	7,566.57	44.26	139.08	53.71	1,823.69	4,071.23	3,050.40	2,906.24	144.16	21.160		
6,600.00	6,089.38	15,134.00	7,566.57	45.15	139.08	53.71	1,823.69	4,071.23	2,969.74	2,823.37	146.37	20.289		
6,700.00	6,177.99	15,134.00	7,566.57	46.05	139.08	53.71	1,823.69	4,071.23	2,890.28	2,741.63	148.66	19.443		
6,800.00	6,266.60	15,134.00	7,566.57	46.94	139.08	53.71	1,823.69	4,071.23	2,812.14	2,661.12	151.02	18.621		
6,900.00	6,355.21	15,134.00	7,566.57	47.84	139.08	53.71	1,823.69	4,071.23	2,735.42	2,581.97	153.46	17.825		
7,000.00	6,443.82	15,134.00	7,566.57	48.74	139.08	53.71	1,823.69	4,071.23	2,660.25	2,504.28	155.97	17.056		
7,100.00	6,532.43	15,134.00	7,566.57	49.63	139.08	53.71	1,823.69	4,071.23	2,586.76	2,428.22	158.54	16.316		
7,200.00	6,621.04	15,134.00	7,566.57	50.53	139.08	53.71	1,823.69	4,071.23	2,515.10	2,353.92	161.18	15.604		
7,300.00	6,709.65	15,134.00	7,566.57	51.42	139.08	53.71	1,823.69	4,071.23	2,445.43	2,281.57	163.86	14.924		
7,400.00	6,798.26	15,134.00	7,566.57	52.32	139.08	53.71	1,823.69	4,071.23	2,377.93	2,211.34	166.58	14.275		
7,500.00	6,886.87	15,132.74	7,566.55	53.22	139.06	53.68	1,824.95	4,071.21	2,312.78	2,143.49	169.28	13.662		
7,600.00	6,975.48	15,103.70	7,565.90	54.12	138.55	52.81	1,853.98	4,070.76	2,249.98	2,078.87	171.11	13.149		
7,656.30	7,025.36	15,087.35	7,565.54	54.62	138.27	52.31	1,870.32	4,070.51	2,215.67	2,043.54	172.12	12.873		
7,700.00	7,064.54	15,076.71	7,565.30	55.00	138.08	41.59	1,880.95	4,070.35	2,189.31	2,016.38	172.93	12.660		
7,750.00	7,110.29	15,069.57	7,565.15	55.40	137.96	27.60	1,888.10	4,070.24	2,159.29	1,985.39	173.90	12.417		
7,800.00	7,156.67	15,065.92	7,565.07	55.75	137.89	11.91	1,891.74	4,070.19	2,129.68	1,954.83	174.85	12.180		
7,850.00	7,203.34	15,065.84	7,565.07	56.05	137.89	-4.59	1,891.82	4,070.19	2,100.75	1,924.98	175.76	11.952		
7,900.00	7,249.95	15,069.39	7,565.15	56.30	137.96	-20.54	1,888.28	4,070.24	2,072.76	1,896.12	176.64	11.734		
7,950.00	7,296.14	15,076.60	7,565.30	56.50	138.08	-34.73	1,881.06	4,070.35	2,045.94	1,868.47	177.47	11.528		
8,000.00	7,341.56	15,089.13	7,565.58	56.64	138.30	-46.56	1,868.54	4,070.54	2,020.49	1,842.19	178.31	11.332		
8,050.00	7,385.86	15,106.22	7,565.96	56.74	138.60	-56.10	1,851.46	4,070.80	1,996.59	1,817.47	179.12	11.147		
8,100.00	7,428.71	15,127.33	7,566.43	56.79	138.96	-63.69	1,830.35	4,071.13	1,974.35	1,794.45	179.90	10.975		
8,150.00	7,469.77	15,134.00	7,566.57	56.80	139.08	-70.18	1,823.69	4,071.23	1,953.98	1,773.97	180.00	10.855		
8,200.00	7,508.75	15,134.00	7,566.57	56.77	139.08	-75.59	1,823.69	4,071.23	1,935.84	1,756.16	179.69	10.774		
8,250.00	7,545.33	15,134.00	7,566.57	56.70	139.08	-79.97	1,823.69	4,071.23	1,920.16	1,740.99	179.17	10.717		
8,300.00	7,579.25	15,134.00	7,566.57	56.59	139.08	-83.48	1,823.69	4,071.23	1,907.12	1,728.65	178.47	10.686		
8,350.00	7,610.24	15,134.00	7,566.57	56.45	139.08	-86.26	1,823.69	4,071.23	1,896.87	1,719.27	177.60	10.681 SF		
8,400.00	7,638.06	15,134.00	7,566.57	56.28	139.08	-88.38	1,823.69	4,071.23	1,889.53	1,712.97	176.56	10.702		
8,450.00	7,662.52	15,134.00	7,566.57	56.09	139.08	-89.93	1,823.69	4,071.23	1,885.21	1,709.83	175.38	10.749		
8,495.65	7,681.74	15,134.00	7,566.57	55.89	139.08	-90.89	1,823.69	4,071.23	1,883.92	1,709.73	174.19	10.815 CC, ES		
8,500.00	7,683.41	15,134.00	7,566.57	55.88	139.08	-90.95	1,823.69	4,071.23	1,883.93	1,709.86	174.07	10.823		
8,550.00	7,700.59	15,134.00	7,566.57	55.64	139.08	-91.49	1,823.69	4,071.23	1,885.74	1,713.06	172.68	10.921		
8,600.00	7,713.91	15,134.00	7,566.57	55.39	139.08	-91.55	1,823.69	4,071.23	1,890.60	1,719.39	171.21	11.043		
8,650.00	7,723.29	15,134.00	7,566.57	55.14	139.08	-91.16	1,823.69	4,071.23	1,898.45	1,728.76	169.69	11.188		
8,700.00	7,728.64	15,134.00	7,566.57	54.87	139.08	-90.33	1,823.69	4,071.23	1,909.19	1,741.03	168.16	11.354		
8,740.83	7,730.00	15,134.00	7,566.57	54.65	139.08	-89.33	1,823.69	4,071.23	1,920.03	1,753.12	166.91	11.504		
8,800.00	7,730.00	15,134.00	7,566.57	54.33	139.08	-89.33	1,823.69	4,071.23	1,937.85	1,772.73	165.12	11.736		
8,900.00	7,730.00	15,134.00	7,566.57	53.82	139.08	-89.33	1,823.69	4,071.23	1,971.65	1,809.44	162.21	12.155		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	15,134.00	7,566.57	53.33	139.08	-89.33	1,823.69	4,071.23	2,009.87	1,850.40	159.46	12.604		
9,100.00	7,730.00	15,134.00	7,566.57	52.87	139.08	-89.33	1,823.69	4,071.23	2,052.25	1,895.36	156.89	13.081		
9,200.00	7,730.00	15,134.00	7,566.57	52.44	139.08	-89.33	1,823.69	4,071.23	2,098.54	1,944.06	154.48	13.585		
9,300.00	7,730.00	15,134.00	7,566.57	52.03	139.08	-89.33	1,823.69	4,071.23	2,148.49	1,996.26	152.23	14.113		
9,400.00	7,730.00	15,134.00	7,566.57	51.65	139.08	-89.33	1,823.69	4,071.23	2,201.85	2,051.72	150.13	14.666		
9,500.00	7,730.00	15,134.00	7,566.57	51.29	139.08	-89.33	1,823.69	4,071.23	2,258.38	2,110.23	148.15	15.244		
9,600.00	7,730.00	15,134.00	7,566.57	50.95	139.08	-89.33	1,823.69	4,071.23	2,317.85	2,171.57	146.28	15.845		
9,700.00	7,730.00	15,134.00	7,566.57	50.64	139.08	-89.33	1,823.69	4,071.23	2,380.04	2,235.53	144.51	16.470		
9,800.00	7,730.00	15,134.00	7,566.57	50.35	139.08	-89.33	1,823.69	4,071.23	2,444.74	2,301.91	142.82	17.117		
9,900.00	7,730.00	15,134.00	7,566.57	50.09	139.08	-89.33	1,823.69	4,071.23	2,511.75	2,370.54	141.21	17.787		
10,000.00	7,730.00	15,134.00	7,566.57	49.86	139.08	-89.33	1,823.69	4,071.23	2,580.90	2,441.23	139.67	18.479		
10,100.00	7,730.00	15,134.00	7,566.57	49.65	139.08	-89.33	1,823.69	4,071.23	2,652.01	2,513.83	138.19	19.192		
10,200.00	7,730.00	15,134.00	7,566.57	49.48	139.08	-89.33	1,823.69	4,071.23	2,724.94	2,588.18	136.76	19.925		
10,300.00	7,730.00	15,134.00	7,566.57	49.35	139.08	-89.33	1,823.69	4,071.23	2,799.55	2,664.15	135.40	20.677		
10,400.00	7,730.00	15,134.00	7,566.57	49.27	139.08	-89.33	1,823.69	4,071.23	2,875.69	2,741.61	134.08	21.447		
10,500.00	7,730.00	15,134.00	7,566.57	49.26	139.08	-89.33	1,823.69	4,071.23	2,953.26	2,820.44	132.82	22.235		
10,600.00	7,730.00	15,134.00	7,566.57	49.32	139.08	-89.33	1,823.69	4,071.23	3,032.15	2,900.54	131.61	23.039		
10,700.00	7,730.00	15,134.00	7,566.57	49.51	139.08	-89.33	1,823.69	4,071.23	3,112.24	2,981.80	130.44	23.859		
10,800.00	7,730.00	15,134.00	7,566.57	49.83	139.08	-89.33	1,823.69	4,071.23	3,193.46	3,064.14	129.32	24.694		
10,900.00	7,730.00	15,134.00	7,566.57	50.31	139.08	-89.33	1,823.69	4,071.23	3,275.72	3,147.48	128.24	25.543		
11,000.00	7,730.00	15,134.00	7,566.57	50.96	139.08	-89.33	1,823.69	4,071.23	3,358.94	3,231.73	127.21	26.404		
11,100.00	7,730.00	15,134.00	7,566.57	51.75	139.08	-89.33	1,823.69	4,071.23	3,443.06	3,316.84	126.22	27.278		
11,200.00	7,730.00	15,134.00	7,566.57	52.66	139.08	-89.33	1,823.69	4,071.23	3,528.00	3,402.73	125.27	28.164		
11,300.00	7,730.00	15,134.00	7,566.57	53.67	139.08	-89.33	1,823.69	4,071.23	3,613.71	3,489.36	124.36	29.060		
11,400.00	7,730.00	15,134.00	7,566.57	54.75	139.08	-89.33	1,823.69	4,071.23	3,700.15	3,576.67	123.48	29.966		
11,500.00	7,730.00	15,134.00	7,566.57	55.89	139.08	-89.33	1,823.69	4,071.23	3,787.24	3,664.61	122.64	30.881		
11,600.00	7,730.00	15,134.00	7,566.57	57.07	139.08	-89.33	1,823.69	4,071.23	3,874.97	3,753.13	121.83	31.806		
11,700.00	7,730.00	15,134.00	7,566.57	58.30	139.08	-89.33	1,823.69	4,071.23	3,963.27	3,842.21	121.06	32.738		
11,800.00	7,730.00	15,134.00	7,566.57	59.55	139.08	-89.33	1,823.69	4,071.23	4,052.12	3,931.80	120.32	33.678		
11,900.00	7,730.00	15,134.00	7,566.57	60.84	139.08	-89.33	1,823.69	4,071.23	4,141.47	4,021.87	119.61	34.625		
12,000.00	7,730.00	15,134.00	7,566.57	62.15	139.08	-89.33	1,823.69	4,071.23	4,231.31	4,112.38	118.93	35.579		
12,100.00	7,730.00	15,134.00	7,566.57	63.49	139.08	-89.33	1,823.69	4,071.23	4,321.59	4,203.31	118.28	36.538		
12,200.00	7,730.00	15,134.00	7,566.57	64.85	139.08	-89.33	1,823.69	4,071.23	4,412.28	4,294.63	117.65	37.504		
12,300.00	7,730.00	15,134.00	7,566.57	66.22	139.08	-89.33	1,823.69	4,071.23	4,503.38	4,386.33	117.05	38.474		
12,400.00	7,730.00	15,134.00	7,566.57	67.62	139.08	-89.33	1,823.69	4,071.23	4,594.84	4,478.37	116.47	39.450		
12,500.00	7,730.00	15,134.00	7,566.57	69.03	139.08	-89.33	1,823.69	4,071.23	4,686.65	4,570.73	115.92	40.430		
12,600.00	7,730.00	15,134.00	7,566.57	70.45	139.08	-89.33	1,823.69	4,071.23	4,778.79	4,663.40	115.39	41.414		
12,700.00	7,730.00	15,134.00	7,566.57	71.90	139.08	-89.33	1,823.69	4,071.23	4,871.24	4,756.36	114.88	42.401		
12,800.00	7,730.00	15,134.00	7,566.57	73.35	139.08	-89.33	1,823.69	4,071.23	4,963.98	4,849.59	114.40	43.392		
12,900.00	7,730.00	15,134.00	7,566.57	74.81	139.08	-89.33	1,823.69	4,071.23	5,057.00	4,943.07	113.93	44.387		
13,000.00	7,730.00	15,134.00	7,566.57	76.29	139.08	-89.33	1,823.69	4,071.23	5,150.28	5,036.80	113.48	45.384		
13,100.00	7,730.00	15,134.00	7,566.57	77.78	139.08	-89.33	1,823.69	4,071.23	5,243.81	5,130.76	113.05	46.383		
13,200.00	7,730.00	15,134.00	7,566.57	79.28	139.08	-89.33	1,823.69	4,071.23	5,337.58	5,224.93	112.64	47.385		
13,300.00	7,730.00	15,134.00	7,566.57	80.79	139.08	-89.33	1,823.69	4,071.23	5,431.56	5,319.31	112.25	48.389		
13,400.00	7,730.00	15,134.00	7,566.57	82.31	139.08	-89.33	1,823.69	4,071.23	5,525.76	5,413.89	111.87	49.395		
13,500.00	7,730.00	15,134.00	7,566.57	83.84	139.08	-89.33	1,823.69	4,071.23	5,620.16	5,508.65	111.50	50.403		
13,600.00	7,730.00	15,134.00	7,566.57	85.37	139.08	-89.33	1,823.69	4,071.23	5,714.74	5,603.59	111.16	51.412		
13,700.00	7,730.00	15,134.00	7,566.57	86.92	139.08	-89.33	1,823.69	4,071.23	5,809.51	5,698.69	110.82	52.423		
13,800.00	7,730.00	15,134.00	7,566.57	88.47	139.08	-89.33	1,823.69	4,071.23	5,904.46	5,793.96	110.50	53.434		
13,900.00	7,730.00	15,134.00	7,566.57	90.03	139.08	-89.33	1,823.69	4,071.23	5,999.56	5,889.37	110.19	54.447		
14,000.00	7,730.00	15,134.00	7,566.57	91.59	139.08	-89.33	1,823.69	4,071.23	6,094.82	5,984.93	109.90	55.460		
14,100.00	7,730.00	15,134.00	7,566.57	93.16	139.08	-89.33	1,823.69	4,071.23	6,190.24	6,080.63	109.61	56.474		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	94.74	139.08	-89.33	1,823.69	4,071.23	6,285.79	6,176.45	109.34	57.489		
14,300.00	7,730.00	15,134.00	7,566.57	96.33	139.08	-89.33	1,823.69	4,071.23	6,381.48	6,272.41	109.08	58.504		
14,400.00	7,730.00	15,134.00	7,566.57	97.92	139.08	-89.33	1,823.69	4,071.23	6,477.30	6,368.48	108.83	59.519		
14,500.00	7,730.00	15,134.00	7,566.57	99.51	139.08	-89.33	1,823.69	4,071.23	6,573.25	6,464.66	108.59	60.535		
14,600.00	7,730.00	15,134.00	7,566.57	101.11	139.08	-89.33	1,823.69	4,071.23	6,669.32	6,560.96	108.36	61.550		
14,700.00	7,730.00	15,134.00	7,566.57	102.72	139.08	-89.33	1,823.69	4,071.23	6,765.49	6,657.36	108.13	62.565		
14,800.00	7,730.00	15,134.00	7,566.57	104.33	139.08	-89.33	1,823.69	4,071.23	6,861.78	6,753.86	107.92	63.581		
14,900.00	7,730.00	15,134.00	7,566.57	105.94	139.08	-89.33	1,823.69	4,071.23	6,958.18	6,850.46	107.72	64.596		
15,000.00	7,730.00	15,134.00	7,566.57	107.56	139.08	-89.33	1,823.69	4,071.23	7,054.67	6,947.15	107.52	65.611		
15,100.00	7,730.00	15,134.00	7,566.57	109.18	139.08	-89.33	1,823.69	4,071.23	7,151.26	7,043.92	107.34	66.625		
15,200.00	7,730.00	15,134.00	7,566.57	110.81	139.08	-89.33	1,823.69	4,071.23	7,247.94	7,140.78	107.16	67.639		
15,300.00	7,730.00	15,134.00	7,566.57	112.44	139.08	-89.33	1,823.69	4,071.23	7,344.71	7,237.73	106.98	68.652		
15,400.00	7,730.00	15,134.00	7,566.57	114.08	139.08	-89.33	1,823.69	4,071.23	7,441.57	7,334.75	106.82	69.665		
15,500.00	7,730.00	15,134.00	7,566.57	115.72	139.08	-89.33	1,823.69	4,071.23	7,538.51	7,431.85	106.66	70.677		
15,600.00	7,730.00	15,134.00	7,566.57	117.36	139.08	-89.33	1,823.69	4,071.23	7,635.52	7,529.02	106.51	71.689		
15,700.00	7,730.00	15,134.00	7,566.57	119.00	139.08	-89.33	1,823.69	4,071.23	7,732.62	7,626.25	106.36	72.700		
15,800.00	7,730.00	15,134.00	7,566.57	120.65	139.08	-89.33	1,823.69	4,071.23	7,829.78	7,723.56	106.22	73.710		
15,900.00	7,730.00	15,134.00	7,566.57	122.30	139.08	-89.33	1,823.69	4,071.23	7,927.02	7,820.93	106.09	74.719		
16,000.00	7,730.00	15,134.00	7,566.57	123.96	139.08	-89.33	1,823.69	4,071.23	8,024.33	7,918.36	105.96	75.727		
16,100.00	7,730.00	15,134.00	7,566.57	125.61	139.08	-89.33	1,823.69	4,071.23	8,121.70	8,015.86	105.84	76.734		
16,200.00	7,730.00	15,134.00	7,566.57	127.27	139.08	-89.33	1,823.69	4,071.23	8,219.13	8,113.41	105.73	77.741		
16,300.00	7,730.00	15,134.00	7,566.57	128.94	139.08	-89.33	1,823.69	4,071.23	8,316.63	8,211.01	105.61	78.746		
16,400.00	7,730.00	15,134.00	7,566.57	130.60	139.08	-89.33	1,823.69	4,071.23	8,414.18	8,308.67	105.51	79.750		
16,500.00	7,730.00	15,134.00	7,566.57	132.27	139.08	-89.33	1,823.69	4,071.23	8,511.79	8,406.38	105.41	80.753		
16,600.00	7,730.00	15,134.00	7,566.57	133.94	139.08	-89.33	1,823.69	4,071.23	8,609.45	8,504.15	105.31	81.755		
16,700.00	7,730.00	15,134.00	7,566.57	135.61	139.08	-89.33	1,823.69	4,071.23	8,707.17	8,601.96	105.21	82.756		
16,800.00	7,730.00	15,134.00	7,566.57	137.28	139.08	-89.33	1,823.69	4,071.23	8,804.94	8,699.81	105.13	83.756		
16,900.00	7,730.00	15,134.00	7,566.57	138.96	139.08	-89.33	1,823.69	4,071.23	8,902.76	8,797.72	105.04	84.754		
17,000.00	7,730.00	15,134.00	7,566.57	140.64	139.08	-89.33	1,823.69	4,071.23	9,000.63	8,895.67	104.96	85.752		
17,100.00	7,730.00	15,134.00	7,566.57	142.32	139.08	-89.33	1,823.69	4,071.23	9,098.54	8,993.65	104.89	86.748		
17,200.00	7,730.00	15,134.00	7,566.57	144.00	139.08	-89.33	1,823.69	4,071.23	9,196.50	9,091.69	104.81	87.743		
17,300.00	7,730.00	15,134.00	7,566.57	145.69	139.08	-89.33	1,823.69	4,071.23	9,294.50	9,189.76	104.74	88.736		
17,400.00	7,730.00	15,134.00	7,566.57	147.37	139.08	-89.33	1,823.69	4,071.23	9,392.54	9,287.87	104.68	89.728		
17,500.00	7,730.00	15,134.00	7,566.57	149.06	139.08	-89.33	1,823.69	4,071.23	9,490.63	9,386.01	104.62	90.719		
17,600.00	7,730.00	15,134.00	7,566.57	150.75	139.08	-89.33	1,823.69	4,071.23	9,588.75	9,484.20	104.56	91.709		
17,700.00	7,730.00	15,134.00	7,566.57	152.44	139.08	-89.33	1,823.69	4,071.23	9,686.91	9,582.41	104.50	92.697		
17,800.00	7,730.00	15,134.00	7,566.57	154.13	139.08	-89.33	1,823.69	4,071.23	9,785.11	9,680.67	104.45	93.684		
17,900.00	7,730.00	15,134.00	7,566.57	155.83	139.08	-89.33	1,823.69	4,071.23	9,883.35	9,778.95	104.40	94.670		
18,000.00	7,730.00	15,134.00	7,566.57	157.52	139.08	-89.33	1,823.69	4,071.23	9,981.62	9,877.27	104.35	95.654		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	71.51	1,855.54	5,550.05	9,875.06					
100.00	100.00	15,352.00	7,829.29	0.13	138.31	71.51	1,855.54	5,550.05	9,794.69	9,700.14	94.54	103.598		
200.00	200.00	15,352.00	7,829.29	0.49	138.31	71.51	1,855.54	5,550.05	9,714.68	9,619.69	94.99	102.272		
300.00	300.00	15,352.00	7,829.29	0.85	138.31	71.51	1,855.54	5,550.05	9,635.05	9,539.58	95.47	100.923		
400.00	400.00	15,352.00	7,829.29	1.21	138.31	71.51	1,855.54	5,550.05	9,555.80	9,459.82	95.98	99.557		
500.00	500.00	15,352.00	7,829.29	1.57	138.31	71.51	1,855.54	5,550.05	9,476.95	9,380.41	96.53	98.175		
600.00	600.00	15,352.00	7,829.29	1.93	138.31	71.51	1,855.54	5,550.05	9,398.49	9,301.38	97.11	96.783		
700.00	700.00	15,352.00	7,829.29	2.29	138.31	71.51	1,855.54	5,550.05	9,320.45	9,222.74	97.71	95.384		
800.00	800.00	15,352.00	7,829.29	2.64	138.31	71.51	1,855.54	5,550.05	9,242.83	9,144.49	98.35	93.983		
900.00	900.00	15,352.00	7,829.29	3.00	138.31	71.51	1,855.54	5,550.05	9,165.65	9,066.65	99.00	92.583		
1,000.00	1,000.00	15,352.00	7,829.29	3.36	138.31	71.51	1,855.54	5,550.05	9,088.91	8,989.23	99.67	91.188		
1,100.00	1,100.00	15,352.00	7,829.29	3.72	138.31	71.51	1,855.54	5,550.05	9,012.62	8,912.26	100.37	89.798		
1,200.00	1,200.00	15,352.00	7,829.29	4.08	138.31	71.51	1,855.54	5,550.05	8,936.81	8,835.73	101.08	88.416		
1,300.00	1,299.98	15,352.00	7,829.29	4.43	138.31	25.39	1,855.54	5,550.05	8,860.44	8,758.63	101.80	87.034		
1,400.00	1,399.84	15,352.00	7,829.29	4.79	138.31	26.48	1,855.54	5,550.05	8,782.52	8,679.98	102.54	85.653		
1,500.00	1,499.45	15,352.00	7,829.29	5.15	138.31	27.67	1,855.54	5,550.05	8,703.10	8,599.84	103.26	84.283		
1,600.00	1,598.70	15,352.00	7,829.29	5.51	138.31	28.97	1,855.54	5,550.05	8,622.25	8,518.27	103.98	82.925		
1,700.00	1,697.47	15,352.00	7,829.29	5.89	138.31	30.40	1,855.54	5,550.05	8,540.02	8,435.33	104.68	81.579		
1,800.00	1,795.62	15,352.00	7,829.29	6.28	138.31	31.98	1,855.54	5,550.05	8,456.47	8,351.09	105.38	80.246		
1,900.00	1,893.06	15,352.00	7,829.29	6.69	138.31	33.71	1,855.54	5,550.05	8,371.67	8,265.59	106.07	78.924		
2,000.00	1,989.64	15,352.00	7,829.29	7.13	138.31	35.63	1,855.54	5,550.05	8,285.68	8,178.92	106.75	77.615		
2,100.00	2,085.27	15,352.00	7,829.29	7.61	138.31	37.75	1,855.54	5,550.05	8,198.57	8,091.14	107.43	76.318		
2,200.00	2,179.82	15,352.00	7,829.29	8.12	138.31	40.09	1,855.54	5,550.05	8,110.42	8,002.33	108.09	75.032		
2,300.00	2,273.17	15,352.00	7,829.29	8.67	138.31	42.69	1,855.54	5,550.05	8,021.29	7,912.54	108.75	73.759		
2,400.00	2,365.21	15,352.00	7,829.29	9.27	138.31	45.57	1,855.54	5,550.05	7,931.28	7,821.87	109.40	72.497		
2,500.00	2,455.84	15,352.00	7,829.29	9.92	138.31	48.75	1,855.54	5,550.05	7,840.44	7,730.40	110.05	71.246		
2,580.62	2,527.80	15,352.00	7,829.29	10.49	138.31	51.56	1,855.54	5,550.05	7,766.68	7,656.11	110.57	70.245		
2,600.00	2,544.97	15,352.00	7,829.29	10.63	138.31	51.56	1,855.54	5,550.05	7,748.90	7,638.21	110.69	70.005		
2,700.00	2,633.58	15,352.00	7,829.29	11.37	138.31	51.56	1,855.54	5,550.05	7,657.28	7,545.94	111.34	68.774		
2,800.00	2,722.19	15,352.00	7,829.29	12.13	138.31	51.56	1,855.54	5,550.05	7,565.86	7,453.85	112.01	67.546		
2,900.00	2,810.80	15,352.00	7,829.29	12.91	138.31	51.56	1,855.54	5,550.05	7,474.67	7,361.96	112.70	66.321		
3,000.00	2,899.41	15,352.00	7,829.29	13.71	138.31	51.56	1,855.54	5,550.05	7,383.70	7,270.28	113.42	65.101		
3,100.00	2,988.02	15,352.00	7,829.29	14.52	138.31	51.56	1,855.54	5,550.05	7,292.97	7,178.81	114.16	63.884		
3,200.00	3,076.63	15,352.00	7,829.29	15.34	138.31	51.56	1,855.54	5,550.05	7,202.49	7,087.57	114.92	62.674		
3,300.00	3,165.24	15,352.00	7,829.29	16.16	138.31	51.56	1,855.54	5,550.05	7,112.26	6,996.55	115.71	61.469		
3,400.00	3,253.85	15,352.00	7,829.29	17.00	138.31	51.56	1,855.54	5,550.05	7,022.29	6,905.78	116.51	60.270		
3,500.00	3,342.46	15,352.00	7,829.29	17.84	138.31	51.56	1,855.54	5,550.05	6,932.60	6,815.26	117.34	59.079		
3,600.00	3,431.07	15,352.00	7,829.29	18.69	138.31	51.56	1,855.54	5,550.05	6,843.20	6,725.00	118.20	57.896		
3,700.00	3,519.68	15,352.00	7,829.29	19.55	138.31	51.56	1,855.54	5,550.05	6,754.09	6,635.02	119.08	56.721		
3,800.00	3,608.29	15,352.00	7,829.29	20.40	138.31	51.56	1,855.54	5,550.05	6,665.29	6,545.32	119.98	55.554		
3,900.00	3,696.90	15,352.00	7,829.29	21.26	138.31	51.56	1,855.54	5,550.05	6,576.82	6,455.91	120.91	54.396		
4,000.00	3,785.51	15,352.00	7,829.29	22.13	138.31	51.56	1,855.54	5,550.05	6,488.68	6,366.82	121.86	53.248		
4,100.00	3,874.12	15,352.00	7,829.29	23.00	138.31	51.56	1,855.54	5,550.05	6,400.88	6,278.05	122.83	52.110		
4,200.00	3,962.73	15,352.00	7,829.29	23.87	138.31	51.56	1,855.54	5,550.05	6,313.45	6,189.62	123.83	50.983		
4,300.00	4,051.34	15,352.00	7,829.29	24.74	138.31	51.56	1,855.54	5,550.05	6,226.40	6,101.54	124.86	49.866		
4,400.00	4,139.95	15,352.00	7,829.29	25.62	138.31	51.56	1,855.54	5,550.05	6,139.75	6,013.83	125.92	48.761		
4,500.00	4,228.56	15,352.00	7,829.29	26.49	138.31	51.56	1,855.54	5,550.05	6,053.50	5,926.50	127.00	47.667		
4,600.00	4,317.17	15,352.00	7,829.29	27.37	138.31	51.56	1,855.54	5,550.05	5,967.69	5,839.58	128.10	46.584		
4,700.00	4,405.78	15,352.00	7,829.29	28.25	138.31	51.56	1,855.54	5,550.05	5,882.32	5,753.08	129.24	45.515		
4,800.00	4,494.39	15,352.00	7,829.29	29.13	138.31	51.56	1,855.54	5,550.05	5,797.42	5,667.01	130.40	44.458		
4,900.00	4,583.00	15,352.00	7,829.29	30.02	138.31	51.56	1,855.54	5,550.05	5,713.01	5,581.41	131.60	43.414		
5,000.00	4,671.61	15,352.00	7,829.29	30.90	138.31	51.56	1,855.54	5,550.05	5,629.11	5,496.29	132.82	42.383		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	15,352.00	7,829.29	31.79	138.31	51.56	1,855.54	5,550.05	5,545.74	5,411.67	134.07	41.366		
5,200.00	4,848.83	15,352.00	7,829.29	32.67	138.31	51.56	1,855.54	5,550.05	5,462.93	5,327.59	135.34	40.363		
5,300.00	4,937.44	15,352.00	7,829.29	33.56	138.31	51.56	1,855.54	5,550.05	5,380.71	5,244.05	136.65	39.375		
5,400.00	5,026.05	15,352.00	7,829.29	34.45	138.31	51.56	1,855.54	5,550.05	5,299.09	5,161.10	137.99	38.401		
5,500.00	5,114.66	15,352.00	7,829.29	35.34	138.31	51.56	1,855.54	5,550.05	5,218.12	5,078.76	139.36	37.443		
5,600.00	5,203.27	15,352.00	7,829.29	36.23	138.31	51.56	1,855.54	5,550.05	5,137.82	4,997.05	140.76	36.500		
5,700.00	5,291.88	15,352.00	7,829.29	37.12	138.31	51.56	1,855.54	5,550.05	5,058.22	4,916.02	142.19	35.572		
5,800.00	5,380.50	15,352.00	7,829.29	38.01	138.31	51.56	1,855.54	5,550.05	4,979.35	4,835.70	143.66	34.662		
5,900.00	5,469.11	15,352.00	7,829.29	38.90	138.31	51.56	1,855.54	5,550.05	4,901.26	4,756.11	145.15	33.767		
6,000.00	5,557.72	15,352.00	7,829.29	39.79	138.31	51.56	1,855.54	5,550.05	4,823.97	4,677.30	146.67	32.890		
6,100.00	5,646.33	15,352.00	7,829.29	40.68	138.31	51.56	1,855.54	5,550.05	4,747.54	4,599.32	148.22	32.030		
6,200.00	5,734.94	15,352.00	7,829.29	41.58	138.31	51.56	1,855.54	5,550.05	4,671.99	4,522.19	149.80	31.187		
6,300.00	5,823.55	15,352.00	7,829.29	42.47	138.31	51.56	1,855.54	5,550.05	4,597.38	4,445.97	151.41	30.363		
6,400.00	5,912.16	15,352.00	7,829.29	43.36	138.31	51.56	1,855.54	5,550.05	4,523.75	4,370.70	153.05	29.557		
6,500.00	6,000.77	15,352.00	7,829.29	44.26	138.31	51.56	1,855.54	5,550.05	4,451.14	4,296.43	154.72	28.770		
6,600.00	6,089.38	15,352.00	7,829.29	45.15	138.31	51.56	1,855.54	5,550.05	4,379.62	4,223.22	156.40	28.002		
6,700.00	6,177.99	15,352.00	7,829.29	46.05	138.31	51.56	1,855.54	5,550.05	4,309.23	4,151.11	158.12	27.254		
6,800.00	6,266.60	15,352.00	7,829.29	46.94	138.31	51.56	1,855.54	5,550.05	4,240.03	4,080.18	159.85	26.525		
6,900.00	6,355.21	15,352.00	7,829.29	47.84	138.31	51.56	1,855.54	5,550.05	4,172.08	4,010.48	161.60	25.818		
7,000.00	6,443.82	15,352.00	7,829.29	48.74	138.31	51.56	1,855.54	5,550.05	4,105.44	3,942.07	163.37	25.130		
7,100.00	6,532.43	15,352.00	7,829.29	49.63	138.31	51.56	1,855.54	5,550.05	4,040.18	3,875.03	165.14	24.464		
7,200.00	6,621.04	15,352.00	7,829.29	50.53	138.31	51.56	1,855.54	5,550.05	3,976.36	3,809.42	166.93	23.820		
7,300.00	6,709.65	15,352.00	7,829.29	51.42	138.31	51.56	1,855.54	5,550.05	3,914.05	3,745.33	168.73	23.198		
7,400.00	6,798.26	15,352.00	7,829.29	52.32	138.31	51.56	1,855.54	5,550.05	3,853.33	3,682.82	170.52	22.598		
7,500.00	6,886.87	15,352.00	7,829.29	53.22	138.31	51.56	1,855.54	5,550.05	3,794.28	3,621.98	172.30	22.021		
7,600.00	6,975.48	15,352.00	7,829.29	54.12	138.31	51.56	1,855.54	5,550.05	3,736.97	3,562.89	174.08	21.467		
7,656.30	7,025.36	15,352.00	7,829.29	54.62	138.31	51.56	1,855.54	5,550.05	3,705.51	3,530.44	175.07	21.166		
7,700.00	7,064.54	15,355.11	7,829.36	55.00	138.36	41.59	1,852.43	5,550.04	3,681.22	3,505.34	175.89	20.930		
7,750.00	7,110.29	15,346.14	7,829.16	55.40	138.20	28.06	1,861.40	5,550.05	3,653.35	3,476.92	176.43	20.708		
7,800.00	7,156.67	15,341.49	7,829.06	55.75	138.12	12.75	1,866.05	5,550.05	3,625.58	3,448.61	176.98	20.486		
7,850.00	7,203.34	15,341.19	7,829.05	56.05	138.12	-3.49	1,866.35	5,550.05	3,598.15	3,420.62	177.53	20.267		
7,900.00	7,249.95	15,345.25	7,829.14	56.30	138.19	-19.30	1,862.29	5,550.05	3,571.28	3,393.19	178.09	20.053		
7,950.00	7,296.14	15,353.64	7,829.33	56.50	138.33	-33.46	1,853.90	5,550.04	3,545.16	3,366.51	178.65	19.844		
8,000.00	7,341.56	15,352.00	7,829.29	56.64	138.31	-45.67	1,855.54	5,550.05	3,520.03	3,341.18	178.85	19.682		
8,050.00	7,385.86	15,352.00	7,829.29	56.74	138.31	-55.73	1,855.54	5,550.05	3,496.09	3,317.12	178.97	19.534		
8,100.00	7,428.71	15,352.00	7,829.29	56.79	138.31	-63.96	1,855.54	5,550.05	3,473.56	3,294.58	178.99	19.407		
8,150.00	7,469.77	15,352.00	7,829.29	56.80	138.31	-70.70	1,855.54	5,550.05	3,452.64	3,273.75	178.89	19.300		
8,200.00	7,508.75	15,352.00	7,829.29	56.77	138.31	-76.22	1,855.54	5,550.05	3,433.51	3,254.82	178.69	19.215		
8,250.00	7,545.33	15,352.00	7,829.29	56.70	138.31	-80.76	1,855.54	5,550.05	3,416.36	3,237.97	178.39	19.151		
8,300.00	7,579.25	15,352.00	7,829.29	56.59	138.31	-84.47	1,855.54	5,550.05	3,401.35	3,223.36	177.99	19.110		
8,350.00	7,610.24	15,352.00	7,829.29	56.45	138.31	-87.48	1,855.54	5,550.05	3,388.61	3,211.11	177.50	19.090 SF		
8,400.00	7,638.06	15,352.00	7,829.29	56.28	138.31	-89.89	1,855.54	5,550.05	3,378.28	3,201.34	176.93	19.093		
8,450.00	7,662.52	15,352.00	7,829.29	56.09	138.31	-91.76	1,855.54	5,550.05	3,370.45	3,194.15	176.29	19.118		
8,500.00	7,683.41	15,352.00	7,829.29	55.88	138.31	-93.14	1,855.54	5,550.05	3,365.19	3,189.60	175.59	19.165		
8,550.00	7,700.59	15,352.00	7,829.29	55.64	138.31	-94.07	1,855.54	5,550.05	3,362.58	3,187.73	174.84	19.232 ES		
8,574.24	7,707.54	15,352.00	7,829.29	55.52	138.31	-94.37	1,855.54	5,550.05	3,362.26	3,187.80	174.47	19.272 CC		
8,600.00	7,713.91	15,352.00	7,829.29	55.39	138.31	-94.58	1,855.54	5,550.05	3,362.62	3,188.56	174.05	19.319		
8,650.00	7,723.29	15,352.00	7,829.29	55.14	138.31	-94.68	1,855.54	5,550.05	3,365.32	3,192.08	173.24	19.426		
8,700.00	7,728.64	15,352.00	7,829.29	54.87	138.31	-94.39	1,855.54	5,550.05	3,370.64	3,198.24	172.41	19.550		
8,740.83	7,730.00	15,352.00	7,829.29	54.65	138.31	-93.87	1,855.54	5,550.05	3,376.91	3,205.19	171.72	19.665		
8,800.00	7,730.00	15,352.00	7,829.29	54.33	138.31	-93.87	1,855.54	5,550.05	3,387.72	3,216.98	170.75	19.841		
8,900.00	7,730.00	15,352.00	7,829.29	53.82	138.31	-93.87	1,855.54	5,550.05	3,408.26	3,239.08	169.17	20.147		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	15,352.00	7,829.29	53.33	138.31	-93.87	1,855.54	5,550.05	3,431.58	3,263.87	167.71	20.462		
9,100.00	7,730.00	15,352.00	7,829.29	52.87	138.31	-93.87	1,855.54	5,550.05	3,457.64	3,291.28	166.36	20.784		
9,200.00	7,730.00	15,352.00	7,829.29	52.44	138.31	-93.87	1,855.54	5,550.05	3,486.37	3,321.24	165.13	21.113		
9,300.00	7,730.00	15,352.00	7,829.29	52.03	138.31	-93.87	1,855.54	5,550.05	3,517.71	3,353.68	164.03	21.445		
9,400.00	7,730.00	15,352.00	7,829.29	51.65	138.31	-93.87	1,855.54	5,550.05	3,551.60	3,388.55	163.05	21.783		
9,500.00	7,730.00	15,352.00	7,829.29	51.29	138.31	-93.87	1,855.54	5,550.05	3,587.95	3,425.77	162.17	22.124		
9,600.00	7,730.00	15,352.00	7,829.29	50.95	138.31	-93.87	1,855.54	5,550.05	3,626.69	3,465.29	161.40	22.470		
9,700.00	7,730.00	15,352.00	7,829.29	50.64	138.31	-93.87	1,855.54	5,550.05	3,667.75	3,507.04	160.71	22.821		
9,800.00	7,730.00	15,352.00	7,829.29	50.35	138.31	-93.87	1,855.54	5,550.05	3,711.06	3,550.95	160.10	23.179		
9,900.00	7,730.00	15,352.00	7,829.29	50.09	138.31	-93.87	1,855.54	5,550.05	3,756.52	3,596.97	159.55	23.544		
10,000.00	7,730.00	15,352.00	7,829.29	49.86	138.31	-93.87	1,855.54	5,550.05	3,804.08	3,645.02	159.05	23.917		
10,100.00	7,730.00	15,352.00	7,829.29	49.65	138.31	-93.87	1,855.54	5,550.05	3,853.64	3,695.05	158.59	24.299		
10,200.00	7,730.00	15,352.00	7,829.29	49.48	138.31	-93.87	1,855.54	5,550.05	3,905.13	3,746.97	158.16	24.691		
10,300.00	7,730.00	15,352.00	7,829.29	49.35	138.31	-93.87	1,855.54	5,550.05	3,958.48	3,800.73	157.75	25.093		
10,400.00	7,730.00	15,352.00	7,829.29	49.27	138.31	-93.87	1,855.54	5,550.05	4,013.61	3,856.26	157.36	25.506		
10,500.00	7,730.00	15,352.00	7,829.29	49.26	138.31	-93.87	1,855.54	5,550.05	4,070.46	3,913.48	156.98	25.930		
10,600.00	7,730.00	15,352.00	7,829.29	49.32	138.31	-93.87	1,855.54	5,550.05	4,128.94	3,972.34	156.60	26.366		
10,700.00	7,730.00	15,352.00	7,829.29	49.51	138.31	-93.87	1,855.54	5,550.05	4,189.00	4,032.77	156.23	26.813		
10,800.00	7,730.00	15,352.00	7,829.29	49.83	138.31	-93.87	1,855.54	5,550.05	4,250.55	4,094.70	155.86	27.272		
10,900.00	7,730.00	15,352.00	7,829.29	50.31	138.31	-93.87	1,855.54	5,550.05	4,313.55	4,158.07	155.48	27.743		
11,000.00	7,730.00	15,352.00	7,829.29	50.96	138.31	-93.87	1,855.54	5,550.05	4,377.93	4,222.82	155.11	28.225		
11,100.00	7,730.00	15,352.00	7,829.29	51.75	138.31	-93.87	1,855.54	5,550.05	4,443.62	4,288.89	154.73	28.719		
11,200.00	7,730.00	15,352.00	7,829.29	52.66	138.31	-93.87	1,855.54	5,550.05	4,510.58	4,356.23	154.35	29.223		
11,300.00	7,730.00	15,352.00	7,829.29	53.67	138.31	-93.87	1,855.54	5,550.05	4,578.74	4,424.77	153.96	29.739		
11,400.00	7,730.00	15,352.00	7,829.29	54.75	138.31	-93.87	1,855.54	5,550.05	4,648.05	4,494.47	153.58	30.265		
11,500.00	7,730.00	15,352.00	7,829.29	55.89	138.31	-93.87	1,855.54	5,550.05	4,718.46	4,565.28	153.19	30.802		
11,600.00	7,730.00	15,352.00	7,829.29	57.07	138.31	-93.87	1,855.54	5,550.05	4,789.93	4,637.14	152.79	31.349		
11,700.00	7,730.00	15,352.00	7,829.29	58.30	138.31	-93.87	1,855.54	5,550.05	4,862.40	4,710.00	152.40	31.906		
11,800.00	7,730.00	15,352.00	7,829.29	59.55	138.31	-93.87	1,855.54	5,550.05	4,935.84	4,783.83	152.00	32.473		
11,900.00	7,730.00	15,352.00	7,829.29	60.84	138.31	-93.87	1,855.54	5,550.05	5,010.19	4,858.59	151.60	33.048		
12,000.00	7,730.00	15,352.00	7,829.29	62.15	138.31	-93.87	1,855.54	5,550.05	5,085.42	4,934.22	151.20	33.633		
12,100.00	7,730.00	15,352.00	7,829.29	63.49	138.31	-93.87	1,855.54	5,550.05	5,161.50	5,010.69	150.80	34.226		
12,200.00	7,730.00	15,352.00	7,829.29	64.85	138.31	-93.87	1,855.54	5,550.05	5,238.38	5,087.97	150.41	34.828		
12,300.00	7,730.00	15,352.00	7,829.29	66.22	138.31	-93.87	1,855.54	5,550.05	5,316.02	5,166.01	150.01	35.438		
12,400.00	7,730.00	15,352.00	7,829.29	67.62	138.31	-93.87	1,855.54	5,550.05	5,394.41	5,244.79	149.61	36.056		
12,500.00	7,730.00	15,352.00	7,829.29	69.03	138.31	-93.87	1,855.54	5,550.05	5,473.50	5,324.28	149.22	36.681		
12,600.00	7,730.00	15,352.00	7,829.29	70.45	138.31	-93.87	1,855.54	5,550.05	5,553.26	5,404.43	148.83	37.314		
12,700.00	7,730.00	15,352.00	7,829.29	71.90	138.31	-93.87	1,855.54	5,550.05	5,633.67	5,485.23	148.44	37.953		
12,800.00	7,730.00	15,352.00	7,829.29	73.35	138.31	-93.87	1,855.54	5,550.05	5,714.69	5,566.64	148.05	38.599		
12,900.00	7,730.00	15,352.00	7,829.29	74.81	138.31	-93.87	1,855.54	5,550.05	5,796.31	5,648.64	147.67	39.252		
13,000.00	7,730.00	15,352.00	7,829.29	76.29	138.31	-93.87	1,855.54	5,550.05	5,878.50	5,731.21	147.29	39.911		
13,100.00	7,730.00	15,352.00	7,829.29	77.78	138.31	-93.87	1,855.54	5,550.05	5,961.23	5,814.32	146.92	40.575		
13,200.00	7,730.00	15,352.00	7,829.29	79.28	138.31	-93.87	1,855.54	5,550.05	6,044.49	5,897.94	146.55	41.246		
13,300.00	7,730.00	15,352.00	7,829.29	80.79	138.31	-93.87	1,855.54	5,550.05	6,128.24	5,982.06	146.18	41.922		
13,400.00	7,730.00	15,352.00	7,829.29	82.31	138.31	-93.87	1,855.54	5,550.05	6,212.48	6,066.66	145.82	42.604		
13,500.00	7,730.00	15,352.00	7,829.29	83.84	138.31	-93.87	1,855.54	5,550.05	6,297.18	6,151.71	145.46	43.290		
13,600.00	7,730.00	15,352.00	7,829.29	85.37	138.31	-93.87	1,855.54	5,550.05	6,382.31	6,237.20	145.11	43.981		
13,700.00	7,730.00	15,352.00	7,829.29	86.92	138.31	-93.87	1,855.54	5,550.05	6,467.88	6,323.11	144.77	44.678		
13,800.00	7,730.00	15,352.00	7,829.29	88.47	138.31	-93.87	1,855.54	5,550.05	6,553.85	6,409.43	144.43	45.378		
13,900.00	7,730.00	15,352.00	7,829.29	90.03	138.31	-93.87	1,855.54	5,550.05	6,640.22	6,496.13	144.09	46.083		
14,000.00	7,730.00	15,352.00	7,829.29	91.59	138.31	-93.87	1,855.54	5,550.05	6,726.96	6,583.20	143.76	46.792		
14,100.00	7,730.00	15,352.00	7,829.29	93.16	138.31	-93.87	1,855.54	5,550.05	6,814.07	6,670.63	143.44	47.505		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	138.31	-93.87	1,855.54	5,550.05	6,901.53	6,758.41	143.12	48.222		
14,300.00	7,730.00	15,352.00	7,829.29	96.33	138.31	-93.87	1,855.54	5,550.05	6,989.32	6,846.52	142.81	48.943		
14,400.00	7,730.00	15,352.00	7,829.29	97.92	138.31	-93.87	1,855.54	5,550.05	7,077.44	6,934.94	142.50	49.667		
14,500.00	7,730.00	15,352.00	7,829.29	99.51	138.31	-93.87	1,855.54	5,550.05	7,165.87	7,023.67	142.20	50.394		
14,600.00	7,730.00	15,352.00	7,829.29	101.11	138.31	-93.87	1,855.54	5,550.05	7,254.60	7,112.70	141.90	51.125		
14,700.00	7,730.00	15,352.00	7,829.29	102.72	138.31	-93.87	1,855.54	5,550.05	7,343.62	7,202.01	141.61	51.859		
14,800.00	7,730.00	15,352.00	7,829.29	104.33	138.31	-93.87	1,855.54	5,550.05	7,432.92	7,291.59	141.32	52.595		
14,900.00	7,730.00	15,352.00	7,829.29	105.94	138.31	-93.87	1,855.54	5,550.05	7,522.49	7,381.44	141.04	53.335		
15,000.00	7,730.00	15,352.00	7,829.29	107.56	138.31	-93.87	1,855.54	5,550.05	7,612.31	7,471.55	140.77	54.077		
15,100.00	7,730.00	15,352.00	7,829.29	109.18	138.31	-93.87	1,855.54	5,550.05	7,702.39	7,561.89	140.50	54.822		
15,200.00	7,730.00	15,352.00	7,829.29	110.81	138.31	-93.87	1,855.54	5,550.05	7,792.71	7,652.48	140.23	55.569		
15,300.00	7,730.00	15,352.00	7,829.29	112.44	138.31	-93.87	1,855.54	5,550.05	7,883.27	7,743.29	139.98	56.319		
15,400.00	7,730.00	15,352.00	7,829.29	114.08	138.31	-93.87	1,855.54	5,550.05	7,974.05	7,834.32	139.72	57.071		
15,500.00	7,730.00	15,352.00	7,829.29	115.72	138.31	-93.87	1,855.54	5,550.05	8,065.04	7,925.57	139.47	57.825		
15,600.00	7,730.00	15,352.00	7,829.29	117.36	138.31	-93.87	1,855.54	5,550.05	8,156.25	8,017.02	139.23	58.581		
15,700.00	7,730.00	15,352.00	7,829.29	119.00	138.31	-93.87	1,855.54	5,550.05	8,247.67	8,108.67	138.99	59.339		
15,800.00	7,730.00	15,352.00	7,829.29	120.65	138.31	-93.87	1,855.54	5,550.05	8,339.28	8,200.52	138.76	60.099		
15,900.00	7,730.00	15,352.00	7,829.29	122.30	138.31	-93.87	1,855.54	5,550.05	8,431.08	8,292.54	138.53	60.860		
16,000.00	7,730.00	15,352.00	7,829.29	123.96	138.31	-93.87	1,855.54	5,550.05	8,523.06	8,384.75	138.31	61.624		
16,100.00	7,730.00	15,352.00	7,829.29	125.61	138.31	-93.87	1,855.54	5,550.05	8,615.23	8,477.14	138.09	62.388		
16,200.00	7,730.00	15,352.00	7,829.29	127.27	138.31	-93.87	1,855.54	5,550.05	8,707.56	8,569.69	137.88	63.155		
16,300.00	7,730.00	15,352.00	7,829.29	128.94	138.31	-93.87	1,855.54	5,550.05	8,800.07	8,662.40	137.67	63.923		
16,400.00	7,730.00	15,352.00	7,829.29	130.60	138.31	-93.87	1,855.54	5,550.05	8,892.73	8,755.27	137.46	64.692		
16,500.00	7,730.00	15,352.00	7,829.29	132.27	138.31	-93.87	1,855.54	5,550.05	8,985.56	8,848.29	137.26	65.463		
16,600.00	7,730.00	15,352.00	7,829.29	133.94	138.31	-93.87	1,855.54	5,550.05	9,078.53	8,941.47	137.07	66.235		
16,700.00	7,730.00	15,352.00	7,829.29	135.61	138.31	-93.87	1,855.54	5,550.05	9,171.66	9,034.78	136.88	67.008		
16,800.00	7,730.00	15,352.00	7,829.29	137.28	138.31	-93.87	1,855.54	5,550.05	9,264.92	9,128.23	136.69	67.782		
16,900.00	7,730.00	15,352.00	7,829.29	138.96	138.31	-93.87	1,855.54	5,550.05	9,358.33	9,221.82	136.51	68.557		
17,000.00	7,730.00	15,352.00	7,829.29	140.64	138.31	-93.87	1,855.54	5,550.05	9,451.87	9,315.54	136.33	69.333		
17,100.00	7,730.00	15,352.00	7,829.29	142.32	138.31	-93.87	1,855.54	5,550.05	9,545.54	9,409.39	136.15	70.110		
17,200.00	7,730.00	15,352.00	7,829.29	144.00	138.31	-93.87	1,855.54	5,550.05	9,639.34	9,503.36	135.98	70.888		
17,300.00	7,730.00	15,352.00	7,829.29	145.69	138.31	-93.87	1,855.54	5,550.05	9,733.26	9,597.45	135.81	71.666		
17,400.00	7,730.00	15,352.00	7,829.29	147.37	138.31	-93.87	1,855.54	5,550.05	9,827.31	9,691.66	135.65	72.446		
17,500.00	7,730.00	15,352.00	7,829.29	149.06	138.31	-93.87	1,855.54	5,550.05	9,921.47	9,785.97	135.49	73.226		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	58.81	2,113.85	3,491.34	4,081.58					
100.00	100.00	50.45	50.45	0.13	0.09	58.81	2,113.85	3,491.37	4,081.44	4,081.21	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.81	2,113.86	3,491.92	4,082.06	4,081.21	0.85	4,790.020		
300.00	300.00	202.27	202.26	0.85	0.64	58.81	2,114.16	3,492.85	4,083.27	4,081.79	1.49	2,745.864		
400.00	400.00	304.48	304.46	1.21	1.00	58.81	2,114.99	3,494.12	4,084.75	4,082.54	2.21	1,847.747		
500.00	500.00	441.84	441.81	1.57	1.49	58.83	2,114.87	3,495.65	4,085.66	4,082.60	3.06	1,336.439		
600.00	600.00	536.90	536.86	1.93	1.83	58.84	2,114.18	3,496.65	4,086.19	4,082.43	3.75	1,088.791		
700.00	700.00	633.54	633.50	2.29	2.17	58.85	2,114.05	3,497.49	4,086.86	4,082.40	4.46	917.270		
800.00	800.00	778.15	778.10	2.64	2.67	58.84	2,114.74	3,497.21	4,086.92	4,081.61	5.31	769.893		
900.00	900.00	912.38	912.33	3.00	3.12	58.84	2,114.01	3,496.35	4,086.09	4,079.97	6.12	667.691		
1,000.00	1,000.00	995.89	995.83	3.36	3.40	58.84	2,113.51	3,495.56	4,084.98	4,078.22	6.76	604.024		
1,100.00	1,100.00	1,091.79	1,091.73	3.72	3.73	58.83	2,113.70	3,494.64	4,084.26	4,076.81	7.45	548.232		
1,200.00	1,200.00	1,211.26	1,211.19	4.08	4.14	58.82	2,113.73	3,493.29	4,083.32	4,075.10	8.22	496.752		
1,300.00	1,299.98	1,350.34	1,350.25	4.43	4.63	11.71	2,113.61	3,491.11	4,080.34	4,071.29	9.06	450.453		
1,400.00	1,399.84	1,420.42	1,420.31	4.79	4.87	11.73	2,113.69	3,489.32	4,073.19	4,063.53	9.66	421.734		
1,500.00	1,499.45	1,538.30	1,538.17	5.15	5.29	11.81	2,112.42	3,488.65	4,063.73	4,053.31	10.43	389.801		
1,600.00	1,598.70	1,846.56	1,845.08	5.51	6.39	12.32	2,085.13	3,487.32	4,045.95	4,034.10	11.86	341.271		
1,700.00	1,697.47	1,929.72	1,927.33	5.89	6.70	12.62	2,072.87	3,488.09	4,023.99	4,011.47	12.52	321.466		
1,800.00	1,795.62	2,040.81	2,036.75	6.28	7.12	13.06	2,053.86	3,490.37	3,998.53	3,985.23	13.29	300.848		
1,900.00	1,893.06	2,110.00	2,104.66	6.69	7.40	13.44	2,040.82	3,492.70	3,970.14	3,956.22	13.92	285.223		
2,000.00	1,989.64	2,174.17	2,167.56	7.13	7.66	13.83	2,028.43	3,495.52	3,939.25	3,924.71	14.54	270.972		
2,100.00	2,085.27	2,244.60	2,236.62	7.61	7.95	14.29	2,015.07	3,499.03	3,905.90	3,890.71	15.19	257.163		
2,200.00	2,179.82	2,369.64	2,359.38	8.12	8.47	15.01	1,992.08	3,504.93	3,869.72	3,853.65	16.06	240.934		
2,300.00	2,273.17	2,449.36	2,437.68	8.67	8.81	15.59	1,977.35	3,508.00	3,829.76	3,813.00	16.76	228.442		
2,400.00	2,365.21	2,594.88	2,580.56	9.27	9.44	16.55	1,950.24	3,512.89	3,786.47	3,768.74	17.74	213.460		
2,500.00	2,455.84	2,648.10	2,632.76	9.92	9.67	17.13	1,940.05	3,514.61	3,740.05	3,721.70	18.36	203.721		
2,580.62	2,527.80	2,691.14	2,675.03	10.49	9.86	17.64	1,932.09	3,516.21	3,701.13	3,682.27	18.87	196.177		
2,600.00	2,544.97	2,701.55	2,685.26	10.63	9.91	17.69	1,930.20	3,516.62	3,691.63	3,672.64	18.99	194.388		
2,700.00	2,633.58	2,760.00	2,742.75	11.37	10.16	18.02	1,919.94	3,519.09	3,643.13	3,623.48	19.64	185.450		
2,800.00	2,722.19	2,874.48	2,855.20	12.13	10.67	18.69	1,899.07	3,524.03	3,594.66	3,574.12	20.54	175.018		
2,900.00	2,810.80	2,958.11	2,937.40	12.91	11.04	19.19	1,884.00	3,527.20	3,546.12	3,524.79	21.32	166.294		
3,000.00	2,899.41	3,052.28	3,029.74	13.71	11.47	19.79	1,865.95	3,530.96	3,497.51	3,475.34	22.17	157.761		
3,100.00	2,988.02	3,109.39	3,085.73	14.52	11.73	20.16	1,854.95	3,533.45	3,449.44	3,426.55	22.88	150.738		
3,200.00	3,076.63	3,219.61	3,193.94	15.34	12.23	20.88	1,834.55	3,538.11	3,401.84	3,378.02	23.82	142.813		
3,300.00	3,165.24	3,289.35	3,262.46	16.16	12.55	21.34	1,821.82	3,540.58	3,354.04	3,329.44	24.61	136.308		
3,400.00	3,253.85	3,378.46	3,350.23	17.00	12.95	21.92	1,806.68	3,543.51	3,306.75	3,281.28	25.48	129.795		
3,500.00	3,342.46	3,486.35	3,456.27	17.84	13.44	22.67	1,787.09	3,546.91	3,259.22	3,232.79	26.44	123.284		
3,600.00	3,431.07	3,566.61	3,535.08	18.69	13.81	23.25	1,772.07	3,549.23	3,211.62	3,184.31	27.31	117.618		
3,700.00	3,519.68	3,631.57	3,599.09	19.55	14.11	23.70	1,761.11	3,550.82	3,164.58	3,136.46	28.13	112.516		
3,800.00	3,608.29	3,688.06	3,654.76	20.40	14.36	24.11	1,751.70	3,552.64	3,118.49	3,089.56	28.93	107.810		
3,900.00	3,696.90	3,769.13	3,734.59	21.26	14.73	24.71	1,737.96	3,555.79	3,073.14	3,043.31	29.84	103.002		
4,000.00	3,785.51	3,840.88	3,805.18	22.13	15.06	25.27	1,725.44	3,558.80	3,028.22	2,997.49	30.73	98.542		
4,100.00	3,874.12	4,100.00	3,914.95	23.00	16.27	26.18	1,704.68	3,563.64	2,983.45	2,950.96	32.49	91.820		
4,200.00	3,962.73	4,048.86	4,009.44	23.87	16.02	26.97	1,687.15	3,566.57	2,938.11	2,905.29	32.82	89.519		
4,300.00	4,051.34	4,109.75	4,069.60	24.74	16.29	27.45	1,677.92	3,568.14	2,893.68	2,859.96	33.71	85.838		
4,400.00	4,139.95	4,179.16	4,138.17	25.62	16.60	28.01	1,667.42	3,570.51	2,850.26	2,815.62	34.64	82.274		
4,500.00	4,228.56	4,330.70	4,287.38	26.49	17.29	29.33	1,641.25	3,574.16	2,805.59	2,769.68	35.90	78.140		
4,600.00	4,317.17	4,404.38	4,359.77	27.37	17.64	30.02	1,627.59	3,575.72	2,761.16	2,724.25	36.92	74.797		
4,700.00	4,405.78	4,478.56	4,432.47	28.25	17.99	30.75	1,612.99	3,577.89	2,717.59	2,679.64	37.96	71.597		
4,800.00	4,494.39	4,573.30	4,525.27	29.13	18.45	31.70	1,594.14	3,580.59	2,674.48	2,635.37	39.10	68.396		
4,900.00	4,583.00	4,664.18	4,614.28	30.02	18.88	32.65	1,575.88	3,582.55	2,631.32	2,591.07	40.26	65.366		
5,000.00	4,671.61	4,723.42	4,672.39	30.90	19.17	33.27	1,564.48	3,584.00	2,589.15	2,547.85	41.30	62.688		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,794.49	4,742.27	31.79	19.50	34.02	1,551.69	3,586.03	2,548.15	2,505.74	42.40	60.093		
5,200.00	4,848.83	4,867.70	4,814.39	32.67	19.84	34.79	1,539.30	3,588.22	2,508.03	2,464.51	43.53	57.619		
5,300.00	4,937.44	4,945.20	4,890.68	33.56	20.19	35.63	1,525.94	3,590.90	2,468.87	2,424.18	44.69	55.243		
5,400.00	5,026.05	5,039.25	4,983.33	34.45	20.63	36.66	1,510.03	3,593.86	2,430.13	2,384.20	45.94	52.900		
5,500.00	5,114.66	5,120.94	5,063.98	35.34	20.99	37.56	1,497.25	3,596.12	2,391.92	2,344.77	47.15	50.733		
5,600.00	5,203.27	5,187.03	5,129.26	36.23	21.29	38.30	1,487.18	3,598.20	2,354.73	2,306.42	48.32	48.736		
5,700.00	5,291.88	5,254.86	5,196.23	37.12	21.59	39.08	1,476.69	3,600.85	2,318.85	2,269.34	49.51	46.832		
5,800.00	5,380.50	5,334.23	5,274.54	38.01	21.95	40.02	1,464.30	3,604.45	2,284.20	2,233.41	50.78	44.979		
5,900.00	5,469.11	5,435.26	5,374.21	38.90	22.40	41.25	1,448.29	3,608.61	2,249.96	2,197.80	52.17	43.130		
6,000.00	5,557.72	5,542.33	5,480.11	39.79	22.88	42.55	1,432.86	3,611.98	2,215.81	2,162.23	53.58	41.356		
6,100.00	5,646.33	5,626.51	5,563.34	40.68	23.25	43.61	1,420.45	3,613.97	2,181.78	2,126.85	54.93	39.721		
6,200.00	5,734.94	5,695.58	5,631.62	41.58	23.55	44.50	1,410.22	3,616.02	2,149.09	2,092.85	56.24	38.211		
6,300.00	5,823.55	5,767.34	5,702.52	42.47	23.87	45.44	1,399.46	3,618.58	2,117.82	2,060.22	57.59	36.774		
6,400.00	5,912.16	5,861.94	5,795.90	43.36	24.30	46.73	1,384.67	3,622.02	2,087.55	2,028.48	59.07	35.340		
6,500.00	6,000.77	5,946.95	5,879.87	44.26	24.68	47.91	1,371.82	3,624.85	2,058.00	1,997.48	60.52	34.005		
6,600.00	6,089.38	6,030.32	5,962.39	45.15	25.04	49.06	1,360.29	3,627.66	2,029.45	1,967.48	61.97	32.749		
6,700.00	6,177.99	6,108.44	6,039.62	46.05	25.39	50.18	1,348.80	3,630.37	2,002.07	1,938.65	63.43	31.566		
6,800.00	6,266.60	6,195.80	6,125.96	46.94	25.77	51.45	1,335.93	3,633.63	1,976.01	1,911.07	64.94	30.429		
6,900.00	6,355.21	6,288.58	6,217.91	47.84	26.17	52.79	1,323.94	3,636.79	1,950.60	1,884.12	66.48	29.343		
7,000.00	6,443.82	6,373.44	6,301.99	48.74	26.53	54.05	1,312.73	3,639.56	1,926.23	1,858.24	67.99	28.331		
7,100.00	6,532.43	6,462.91	6,390.68	49.63	26.91	55.39	1,301.39	3,642.50	1,902.97	1,833.44	69.53	27.368		
7,200.00	6,621.04	6,563.50	6,490.69	50.53	27.31	56.87	1,291.05	3,645.74	1,880.41	1,809.30	71.10	26.447		
7,300.00	6,709.65	6,672.00	6,598.69	51.42	27.74	58.47	1,280.98	3,648.36	1,858.11	1,785.41	72.69	25.561		
7,400.00	6,798.26	6,777.24	6,703.51	52.32	28.15	60.04	1,271.86	3,649.74	1,835.87	1,761.60	74.27	24.719		
7,500.00	6,886.87	6,876.06	6,802.11	53.22	28.51	61.51	1,265.22	3,650.73	1,814.07	1,738.27	75.80	23.931		
7,600.00	6,975.48	6,970.67	6,896.62	54.12	28.84	62.88	1,261.10	3,651.79	1,792.88	1,715.58	77.30	23.195		
7,656.30	7,025.36	7,023.48	6,949.40	54.62	29.01	63.63	1,259.56	3,652.49	1,781.27	1,703.15	78.12	22.801		
7,700.00	7,064.54	7,065.25	6,991.16	55.00	29.15	64.14	1,258.63	3,653.06	1,771.76	1,693.02	78.73	22.503		
7,750.00	7,110.29	7,112.75	7,038.64	55.40	29.30	64.44	1,257.86	3,653.73	1,759.37	1,680.02	79.35	22.173		
7,800.00	7,156.67	7,158.72	7,084.61	55.75	29.45	64.73	1,257.37	3,654.47	1,745.45	1,665.59	79.86	21.856		
7,850.00	7,203.34	7,211.02	7,136.90	56.05	29.61	65.03	1,257.15	3,655.42	1,730.00	1,649.72	80.28	21.549		
7,900.00	7,249.95	7,274.08	7,199.95	56.30	29.79	65.30	1,257.38	3,656.25	1,712.77	1,632.16	80.61	21.247		
7,950.00	7,296.14	7,341.37	7,267.21	56.50	29.97	65.57	1,259.13	3,656.92	1,693.70	1,612.90	80.80	20.961		
8,000.00	7,341.56	8,188.27	7,885.96	56.64	30.47	-45.10	1,725.88	3,640.59	1,665.72	1,595.86	69.86	23.843		
8,050.00	7,385.86	8,179.38	7,884.27	56.74	30.47	-56.14	1,717.16	3,640.64	1,633.87	1,563.59	70.28	23.248		
8,100.00	7,428.71	8,170.11	7,882.39	56.79	30.47	-65.19	1,708.07	3,640.72	1,603.68	1,533.12	70.57	22.725		
8,150.00	7,469.77	8,158.39	7,879.84	56.80	30.47	-72.50	1,696.63	3,640.91	1,575.43	1,504.67	70.76	22.264		
8,200.00	7,508.75	8,144.60	7,876.58	56.77	30.47	-78.39	1,683.24	3,641.24	1,549.36	1,478.51	70.85	21.867		
8,250.00	7,545.33	8,115.20	7,868.70	56.70	30.47	-82.61	1,654.94	3,642.24	1,525.68	1,454.56	71.12	21.453		
8,300.00	7,579.25	8,069.87	7,853.99	56.59	30.48	-85.39	1,612.10	3,643.76	1,504.14	1,432.56	71.58	21.013		
8,350.00	7,610.24	8,041.00	7,843.09	56.45	30.49	-88.04	1,585.40	3,644.84	1,485.09	1,413.49	71.60	20.743		
8,400.00	7,638.06	8,015.37	7,832.38	56.28	30.50	-90.17	1,562.13	3,645.96	1,468.74	1,397.31	71.43	20.562		
8,450.00	7,662.52	7,987.08	7,819.35	56.09	30.52	-91.64	1,537.07	3,647.41	1,455.23	1,384.02	71.21	20.435		
8,500.00	7,683.41	7,855.39	7,739.65	55.88	30.57	-88.93	1,432.99	3,651.87	1,443.82	1,371.02	72.80	19.834 SF		
8,550.00	7,700.59	7,832.49	7,722.70	55.64	30.58	-89.65	1,417.60	3,652.08	1,434.40	1,362.18	72.22	19.861		
8,600.00	7,713.91	7,813.57	7,708.19	55.39	30.58	-90.07	1,405.46	3,652.29	1,428.02	1,356.49	71.53	19.964		
8,650.00	7,723.29	7,794.95	7,693.48	55.14	30.58	-90.06	1,394.04	3,652.56	1,424.68	1,353.87	70.80	20.121		
8,680.21	7,727.01	7,784.16	7,684.77	54.97	30.58	-89.87	1,387.68	3,652.74	1,424.13	1,353.78	70.35	20.242 CC, ES		
8,700.00	7,728.64	7,777.03	7,678.94	54.87	30.58	-89.66	1,383.58	3,652.87	1,424.36	1,354.30	70.06	20.331		
8,740.83	7,730.00	7,762.22	7,666.64	54.65	30.57	-89.02	1,375.34	3,653.19	1,426.31	1,356.84	69.46	20.533		
8,800.00	7,730.00	7,742.48	7,649.88	54.33	30.57	-88.34	1,364.93	3,653.68	1,431.52	1,362.89	68.64	20.856		
8,900.00	7,730.00	7,710.00	7,621.56	53.82	30.55	-87.21	1,349.06	3,654.73	1,444.97	1,377.51	67.46	21.420		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,683.22	7,597.62	53.33	30.53	-86.25	1,337.11	3,655.71	1,464.18	1,397.63	66.55	22.000		
9,100.00	7,730.00	7,650.46	7,567.73	52.87	30.51	-85.06	1,323.76	3,656.86	1,489.02	1,422.96	66.06	22.540		
9,200.00	7,730.00	7,606.69	7,526.97	52.44	30.47	-83.44	1,307.84	3,657.66	1,518.96	1,452.98	65.98	23.022		
9,300.00	7,730.00	7,582.22	7,503.82	52.03	30.44	-82.53	1,299.90	3,657.78	1,554.06	1,487.95	66.11	23.507		
9,400.00	7,730.00	7,567.00	7,489.30	51.65	30.42	-81.96	1,295.34	3,657.76	1,594.25	1,527.74	66.51	23.971		
9,500.00	7,730.00	7,549.32	7,472.33	51.29	30.39	-81.29	1,290.39	3,657.72	1,639.26	1,572.10	67.16	24.409		
9,600.00	7,730.00	7,537.18	7,460.61	50.95	30.38	-80.83	1,287.21	3,657.69	1,688.80	1,620.82	67.97	24.845		
9,700.00	7,730.00	7,520.00	7,443.95	50.64	30.35	-80.18	1,283.02	3,657.68	1,742.53	1,673.61	68.93	25.281		
9,800.00	7,730.00	7,520.00	7,443.95	50.35	30.35	-80.18	1,283.02	3,657.68	1,800.04	1,730.12	69.92	25.743		
9,900.00	7,730.00	7,520.00	7,443.95	50.09	30.35	-80.18	1,283.02	3,657.68	1,861.15	1,790.19	70.96	26.227		
10,000.00	7,730.00	7,500.66	7,425.10	49.86	30.32	-79.45	1,278.73	3,657.71	1,925.24	1,853.21	72.03	26.729		
10,100.00	7,730.00	7,493.61	7,418.20	49.65	30.31	-79.18	1,277.28	3,657.74	1,992.30	1,919.24	73.07	27.267		
10,200.00	7,730.00	7,473.00	7,397.96	49.48	30.27	-78.40	1,273.38	3,657.87	2,062.12	1,988.04	74.08	27.836		
10,300.00	7,730.00	7,473.00	7,397.96	49.35	30.27	-78.40	1,273.38	3,657.87	2,134.04	2,059.00	75.04	28.438		
10,400.00	7,730.00	7,473.00	7,397.96	49.27	30.27	-78.40	1,273.38	3,657.87	2,208.16	2,132.19	75.96	29.070		
10,500.00	7,730.00	7,473.00	7,397.96	49.26	30.27	-78.40	1,273.38	3,657.87	2,284.24	2,207.41	76.83	29.731		
10,600.00	7,730.00	7,473.00	7,397.96	49.32	30.27	-78.40	1,273.38	3,657.87	2,362.11	2,284.46	77.65	30.419		
10,700.00	7,730.00	7,455.51	7,380.72	49.51	30.23	-77.74	1,270.45	3,657.96	2,441.43	2,363.01	78.43	31.131		
10,800.00	7,730.00	7,449.50	7,374.78	49.83	30.22	-77.51	1,269.52	3,657.97	2,522.24	2,443.09	79.15	31.866		
10,900.00	7,730.00	7,443.93	7,369.27	50.31	30.21	-77.30	1,268.68	3,657.96	2,604.35	2,524.52	79.83	32.624		
11,000.00	7,730.00	7,426.00	7,351.51	50.96	30.18	-76.62	1,266.21	3,657.88	2,687.73	2,607.27	80.47	33.402		
11,100.00	7,730.00	7,426.00	7,351.51	51.75	30.18	-76.62	1,266.21	3,657.88	2,772.05	2,690.99	81.06	34.196		
11,200.00	7,730.00	7,426.00	7,351.51	52.66	30.18	-76.62	1,266.21	3,657.88	2,857.38	2,775.76	81.62	35.007		
11,300.00	7,730.00	7,426.00	7,351.51	53.67	30.18	-76.62	1,266.21	3,657.88	2,943.64	2,861.49	82.15	35.833		
11,400.00	7,730.00	7,426.00	7,351.51	54.75	30.18	-76.62	1,266.21	3,657.88	3,030.74	2,948.10	82.64	36.674		
11,500.00	7,730.00	7,426.00	7,351.51	55.89	30.18	-76.62	1,266.21	3,657.88	3,118.61	3,035.51	83.10	37.527		
11,600.00	7,730.00	7,426.00	7,351.51	57.07	30.18	-76.62	1,266.21	3,657.88	3,207.20	3,123.66	83.54	38.392		
11,700.00	7,730.00	7,426.00	7,351.51	58.30	30.18	-76.62	1,266.21	3,657.88	3,296.44	3,212.49	83.95	39.268		
11,800.00	7,730.00	7,426.00	7,351.51	59.55	30.18	-76.62	1,266.21	3,657.88	3,386.28	3,301.94	84.33	40.154		
11,900.00	7,730.00	7,408.41	7,334.05	60.84	30.14	-75.96	1,264.13	3,657.72	3,476.47	3,391.78	84.69	41.050		
12,000.00	7,730.00	7,406.08	7,331.73	62.15	30.13	-75.87	1,263.88	3,657.70	3,567.32	3,482.29	85.03	41.953		
12,100.00	7,730.00	7,403.86	7,329.52	63.49	30.13	-75.79	1,263.64	3,657.68	3,658.64	3,573.29	85.35	42.865		
12,200.00	7,730.00	7,401.74	7,327.42	64.85	30.12	-75.71	1,263.43	3,657.66	3,750.40	3,664.74	85.66	43.783		
12,300.00	7,730.00	7,399.72	7,325.41	66.22	30.12	-75.63	1,263.23	3,657.63	3,842.56	3,756.61	85.95	44.708		
12,400.00	7,730.00	7,397.80	7,323.50	67.62	30.11	-75.56	1,263.04	3,657.61	3,935.10	3,848.88	86.22	45.639		
12,500.00	7,730.00	7,379.00	7,304.77	69.03	30.07	-74.86	1,261.44	3,657.39	4,028.18	3,941.71	86.47	46.582		
12,600.00	7,730.00	7,379.00	7,304.77	70.45	30.07	-74.86	1,261.44	3,657.39	4,121.37	4,034.64	86.72	47.523		
12,700.00	7,730.00	7,379.00	7,304.77	71.90	30.07	-74.86	1,261.44	3,657.39	4,214.86	4,127.90	86.96	48.469		
12,800.00	7,730.00	7,379.00	7,304.77	73.35	30.07	-74.86	1,261.44	3,657.39	4,308.65	4,221.47	87.19	49.419		
12,900.00	7,730.00	7,379.00	7,304.77	74.81	30.07	-74.86	1,261.44	3,657.39	4,402.72	4,315.31	87.40	50.374		
13,000.00	7,730.00	7,379.00	7,304.77	76.29	30.07	-74.86	1,261.44	3,657.39	4,497.04	4,409.43	87.61	51.332		
13,100.00	7,730.00	7,379.00	7,304.77	77.78	30.07	-74.86	1,261.44	3,657.39	4,591.59	4,503.79	87.80	52.294		
13,200.00	7,730.00	7,379.00	7,304.77	79.28	30.07	-74.86	1,261.44	3,657.39	4,686.38	4,598.39	87.99	53.259		
13,300.00	7,730.00	7,379.00	7,304.77	80.79	30.07	-74.86	1,261.44	3,657.39	4,781.38	4,693.20	88.17	54.227		
13,400.00	7,730.00	7,379.00	7,304.77	82.31	30.07	-74.86	1,261.44	3,657.39	4,876.58	4,788.23	88.35	55.198		
13,500.00	7,730.00	7,379.00	7,304.77	83.84	30.07	-74.86	1,261.44	3,657.39	4,971.96	4,883.45	88.51	56.172		
13,600.00	7,730.00	7,379.00	7,304.77	85.37	30.07	-74.86	1,261.44	3,657.39	5,067.53	4,978.85	88.67	57.148		
13,700.00	7,730.00	7,379.00	7,304.77	86.92	30.07	-74.86	1,261.44	3,657.39	5,163.26	5,074.43	88.83	58.127		
13,800.00	7,730.00	7,379.00	7,304.77	88.47	30.07	-74.86	1,261.44	3,657.39	5,259.15	5,170.17	88.98	59.107		
13,900.00	7,730.00	7,379.00	7,304.77	90.03	30.07	-74.86	1,261.44	3,657.39	5,355.19	5,266.07	89.12	60.090		
14,000.00	7,730.00	7,379.00	7,304.77	91.59	30.07	-74.86	1,261.44	3,657.39	5,451.37	5,362.12	89.26	61.074		
14,100.00	7,730.00	7,379.00	7,304.77	93.16	30.07	-74.86	1,261.44	3,657.39	5,547.69	5,458.30	89.39	62.060		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,379.00	7,304.77	94.74	30.07	-74.86	1,261.44	3,657.39	5,644.14	5,554.62	89.52	63.047		
14,300.00	7,730.00	7,379.00	7,304.77	96.33	30.07	-74.86	1,261.44	3,657.39	5,740.71	5,651.06	89.65	64.036		
14,400.00	7,730.00	7,379.00	7,304.77	97.92	30.07	-74.86	1,261.44	3,657.39	5,837.39	5,747.62	89.77	65.026		
14,500.00	7,730.00	7,379.00	7,304.77	99.51	30.07	-74.86	1,261.44	3,657.39	5,934.19	5,844.30	89.89	66.017		
14,600.00	7,730.00	7,379.00	7,304.77	101.11	30.07	-74.86	1,261.44	3,657.39	6,031.08	5,941.08	90.00	67.010		
14,700.00	7,730.00	7,379.00	7,304.77	102.72	30.07	-74.86	1,261.44	3,657.39	6,128.08	6,037.97	90.11	68.003		
14,800.00	7,730.00	7,379.00	7,304.77	104.33	30.07	-74.86	1,261.44	3,657.39	6,225.18	6,134.95	90.22	68.997		
14,900.00	7,730.00	7,379.00	7,304.77	105.94	30.07	-74.86	1,261.44	3,657.39	6,322.36	6,232.03	90.33	69.992		
15,000.00	7,730.00	7,379.00	7,304.77	107.56	30.07	-74.86	1,261.44	3,657.39	6,419.63	6,329.20	90.43	70.988		
15,100.00	7,730.00	7,379.00	7,304.77	109.18	30.07	-74.86	1,261.44	3,657.39	6,516.98	6,426.45	90.53	71.984		
15,200.00	7,730.00	7,379.00	7,304.77	110.81	30.07	-74.86	1,261.44	3,657.39	6,614.41	6,523.78	90.63	72.981		
15,300.00	7,730.00	7,379.00	7,304.77	112.44	30.07	-74.86	1,261.44	3,657.39	6,711.92	6,621.19	90.73	73.979		
15,400.00	7,730.00	7,379.00	7,304.77	114.08	30.07	-74.86	1,261.44	3,657.39	6,809.50	6,718.68	90.82	74.977		
15,500.00	7,730.00	7,379.00	7,304.77	115.72	30.07	-74.86	1,261.44	3,657.39	6,907.15	6,816.24	90.91	75.975		
15,600.00	7,730.00	7,379.00	7,304.77	117.36	30.07	-74.86	1,261.44	3,657.39	7,004.87	6,913.86	91.00	76.973		
15,700.00	7,730.00	7,379.00	7,304.77	119.00	30.07	-74.86	1,261.44	3,657.39	7,102.64	7,011.55	91.09	77.972		
15,800.00	7,730.00	7,379.00	7,304.77	120.65	30.07	-74.86	1,261.44	3,657.39	7,200.48	7,109.31	91.18	78.971		
15,900.00	7,730.00	7,379.00	7,304.77	122.30	30.07	-74.86	1,261.44	3,657.39	7,298.38	7,207.12	91.26	79.970		
16,000.00	7,730.00	7,379.00	7,304.77	123.96	30.07	-74.86	1,261.44	3,657.39	7,396.34	7,304.99	91.35	80.970		
16,100.00	7,730.00	7,379.00	7,304.77	125.61	30.07	-74.86	1,261.44	3,657.39	7,494.35	7,402.92	91.43	81.969		
16,200.00	7,730.00	7,379.00	7,304.77	127.27	30.07	-74.86	1,261.44	3,657.39	7,592.41	7,500.90	91.51	82.968		
16,300.00	7,730.00	7,379.00	7,304.77	128.94	30.07	-74.86	1,261.44	3,657.39	7,690.52	7,598.93	91.59	83.968		
16,400.00	7,730.00	7,379.00	7,304.77	130.60	30.07	-74.86	1,261.44	3,657.39	7,788.68	7,697.01	91.67	84.967		
16,500.00	7,730.00	7,379.00	7,304.77	132.27	30.07	-74.86	1,261.44	3,657.39	7,886.88	7,795.14	91.74	85.966		
16,600.00	7,730.00	7,379.00	7,304.77	133.94	30.07	-74.86	1,261.44	3,657.39	7,985.13	7,893.31	91.82	86.965		
16,700.00	7,730.00	7,379.00	7,304.77	135.61	30.07	-74.86	1,261.44	3,657.39	8,083.42	7,991.53	91.90	87.963		
16,800.00	7,730.00	7,379.00	7,304.77	137.28	30.07	-74.86	1,261.44	3,657.39	8,181.76	8,089.79	91.97	88.962		
16,900.00	7,730.00	7,379.00	7,304.77	138.96	30.07	-74.86	1,261.44	3,657.39	8,280.13	8,188.09	92.04	89.960		
17,000.00	7,730.00	7,379.00	7,304.77	140.64	30.07	-74.86	1,261.44	3,657.39	8,378.54	8,286.43	92.11	90.958		
17,100.00	7,730.00	7,379.00	7,304.77	142.32	30.07	-74.86	1,261.44	3,657.39	8,476.99	8,384.80	92.19	91.955		
17,200.00	7,730.00	7,379.00	7,304.77	144.00	30.07	-74.86	1,261.44	3,657.39	8,575.48	8,483.22	92.26	92.952		
17,300.00	7,730.00	7,379.00	7,304.77	145.69	30.07	-74.86	1,261.44	3,657.39	8,674.00	8,581.67	92.33	93.949		
17,400.00	7,730.00	7,339.50	7,265.34	147.37	29.97	-73.39	1,259.04	3,656.90	8,771.93	8,679.57	92.36	94.974		
17,500.00	7,730.00	7,338.83	7,264.67	149.06	29.96	-73.36	1,259.01	3,656.89	8,870.50	8,778.07	92.43	95.971		
17,600.00	7,730.00	7,338.17	7,264.01	150.75	29.96	-73.34	1,258.98	3,656.88	8,969.09	8,876.60	92.50	96.967		
17,700.00	7,730.00	7,337.52	7,263.36	152.44	29.96	-73.31	1,258.95	3,656.88	9,067.72	8,975.16	92.56	97.963		
17,800.00	7,730.00	7,336.88	7,262.73	154.13	29.96	-73.29	1,258.92	3,656.87	9,166.38	9,073.75	92.63	98.958		
17,900.00	7,730.00	7,336.26	7,262.11	155.83	29.96	-73.27	1,258.89	3,656.86	9,265.06	9,172.37	92.69	99.952		
18,000.00	7,730.00	7,335.65	7,261.49	157.52	29.96	-73.24	1,258.87	3,656.86	9,363.77	9,271.01	92.76	100.947		
18,100.00	7,730.00	7,335.05	7,260.89	159.22	29.95	-73.22	1,258.84	3,656.85	9,462.51	9,369.69	92.82	101.940		
18,200.00	7,730.00	7,334.46	7,260.30	160.92	29.95	-73.20	1,258.81	3,656.84	9,561.28	9,468.39	92.89	102.933		
18,300.00	7,730.00	7,333.88	7,259.73	162.62	29.95	-73.18	1,258.79	3,656.84	9,660.07	9,567.12	92.95	103.925		
18,400.00	7,730.00	7,333.31	7,259.16	164.32	29.95	-73.16	1,258.76	3,656.83	9,758.88	9,665.87	93.02	104.916		
18,426.22	7,730.00	7,333.16	7,259.01	164.76	29.95	-73.15	1,258.76	3,656.83	9,784.80	9,691.77	93.03	105.176		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	58.38	2,112.75	3,431.70	4,030.11					
100.00	100.00	51.54	51.54	0.13	0.10	58.38	2,112.74	3,431.74	4,029.96	4,029.73	0.23	N/A		
200.00	200.00	125.35	125.34	0.49	0.36	58.39	2,112.65	3,432.28	4,030.52	4,029.67	0.85	4,722.420		
300.00	300.00	221.82	221.81	0.85	0.71	58.39	2,112.77	3,433.26	4,031.45	4,029.90	1.56	2,590.188		
400.00	400.00	309.74	309.72	1.21	1.02	58.39	2,113.24	3,434.13	4,032.57	4,030.34	2.23	1,809.272		
500.00	500.00	447.90	447.88	1.57	1.51	58.39	2,113.86	3,434.94	4,033.29	4,030.21	3.08	1,311.095		
600.00	600.00	532.85	532.83	1.93	1.81	58.38	2,114.62	3,435.03	4,033.84	4,030.10	3.73	1,080.478		
700.00	700.00	663.18	663.15	2.29	2.26	58.36	2,116.17	3,434.50	4,034.10	4,029.56	4.55	887.446		
800.00	800.00	775.17	775.14	2.64	2.65	58.35	2,116.76	3,433.84	4,033.87	4,028.58	5.29	762.428		
900.00	900.00	884.80	884.76	3.00	3.03	58.34	2,116.98	3,433.11	4,033.42	4,027.39	6.03	669.179		
1,000.00	1,000.00	982.69	982.65	3.36	3.36	58.33	2,117.01	3,432.38	4,032.79	4,026.07	6.72	599.900		
1,100.00	1,100.00	1,069.51	1,069.46	3.72	3.66	58.34	2,116.61	3,432.22	4,032.40	4,025.02	7.38	546.348		
1,200.00	1,200.00	1,997.77	1,988.35	4.08	7.12	58.56	2,049.02	3,351.20	4,014.16	4,003.31	10.86	369.746		
1,300.00	1,299.98	2,151.75	2,138.36	4.43	7.80	11.70	2,022.32	3,328.96	3,991.02	3,979.26	11.75	339.595		
1,400.00	1,399.84	2,215.43	2,200.34	4.79	8.09	11.90	2,010.99	3,319.78	3,964.44	3,952.09	12.35	320.952		
1,500.00	1,499.45	2,272.60	2,256.11	5.15	8.35	12.11	2,001.13	3,311.96	3,935.48	3,922.55	12.93	304.370		
1,600.00	1,598.70	2,408.72	2,388.95	5.51	8.98	12.47	1,977.75	3,293.67	3,903.66	3,889.88	13.77	283.421		
1,700.00	1,697.47	1,700.00	2,550.34	5.89	5.68	12.95	1,947.54	3,268.18	3,866.19	3,854.96	11.23	344.144		
1,800.00	1,795.62	2,632.33	2,606.09	6.28	10.06	13.26	1,937.10	3,259.08	3,825.63	3,810.33	15.30	250.067		
1,900.00	1,893.06	2,678.17	2,650.75	6.69	10.29	13.57	1,929.37	3,252.15	3,783.10	3,767.26	15.84	238.840		
2,000.00	1,989.64	2,723.80	2,695.32	7.13	10.51	13.90	1,922.21	3,245.53	3,738.59	3,722.21	16.38	228.241		
2,100.00	2,085.27	2,772.64	2,743.17	7.61	10.75	14.27	1,915.10	3,238.76	3,692.09	3,675.16	16.93	218.054		
2,200.00	2,179.82	2,836.32	2,805.62	8.12	11.04	14.71	1,905.86	3,230.47	3,643.35	3,625.81	17.53	207.784		
2,300.00	2,273.17	2,968.65	2,935.24	8.67	11.67	15.43	1,885.21	3,213.66	3,591.51	3,573.15	18.36	195.574		
2,400.00	2,365.21	3,041.98	3,006.90	9.27	12.03	16.07	1,872.60	3,204.53	3,536.37	3,517.36	19.01	186.057		
2,500.00	2,455.84	3,249.15	3,208.41	9.92	13.07	17.39	1,834.77	3,174.93	3,476.23	3,456.15	20.07	173.176		
2,580.62	2,527.80	3,315.53	3,272.79	10.49	13.42	18.11	1,822.44	3,164.53	3,425.50	3,404.89	20.62	166.142		
2,600.00	2,544.97	3,340.15	3,296.67	10.63	13.55	18.23	1,817.87	3,160.60	3,413.09	3,392.31	20.78	164.275		
2,700.00	2,633.58	3,442.73	3,395.90	11.37	14.09	18.77	1,798.59	3,143.20	3,348.18	3,326.68	21.51	155.688		
2,800.00	2,722.19	3,480.45	3,432.46	12.13	14.29	18.96	1,791.75	3,136.90	3,283.89	3,261.83	22.06	148.858		
2,900.00	2,810.80	3,533.32	3,483.85	12.91	14.57	19.25	1,782.55	3,128.53	3,220.52	3,197.84	22.67	142.045		
3,000.00	2,899.41	3,633.90	3,581.34	13.71	15.09	19.83	1,763.73	3,112.53	3,156.67	3,133.24	23.43	134.735		
3,100.00	2,988.02	3,676.79	3,622.97	14.52	15.32	20.09	1,755.78	3,105.90	3,093.41	3,069.37	24.04	128.662		
3,200.00	3,076.63	3,741.76	3,686.18	15.34	15.66	20.49	1,744.27	3,096.24	3,030.95	3,006.23	24.73	122.568		
3,300.00	3,165.24	3,821.44	3,763.60	16.16	16.07	21.00	1,729.65	3,084.37	2,968.40	2,942.94	25.47	116.565		
3,400.00	3,253.85	3,875.69	3,816.34	17.00	16.36	21.37	1,719.59	3,076.62	2,906.36	2,880.20	26.15	111.123		
3,500.00	3,342.46	3,932.45	3,871.61	17.84	16.65	21.76	1,709.22	3,068.88	2,845.01	2,818.14	26.86	105.905		
3,600.00	3,431.07	3,991.66	3,929.38	18.69	16.95	22.18	1,698.96	3,060.94	2,784.31	2,756.72	27.59	100.906		
3,700.00	3,519.68	4,063.06	3,999.15	19.55	17.31	22.69	1,687.17	3,051.38	2,724.09	2,695.73	28.36	96.049		
3,800.00	3,608.29	4,136.30	4,070.79	20.40	17.67	23.21	1,675.68	3,041.43	2,664.17	2,635.03	29.14	91.414		
3,900.00	3,696.90	3,900.00	4,178.27	21.26	16.48	24.00	1,659.14	3,025.28	2,603.80	2,575.19	28.60	91.027		
4,000.00	3,785.51	4,361.02	4,290.12	22.13	18.82	24.88	1,641.27	3,006.77	2,542.32	2,511.44	30.88	82.333		
4,100.00	3,874.12	4,494.36	4,419.64	23.00	19.53	25.99	1,619.58	2,983.67	2,480.20	2,448.42	31.78	78.039		
4,200.00	3,962.73	4,589.60	4,511.54	23.87	20.06	26.88	1,602.10	2,965.82	2,416.47	2,383.82	32.65	74.009		
4,300.00	4,051.34	4,647.00	4,567.01	24.74	20.38	27.44	1,591.76	2,955.25	2,353.41	2,319.92	33.50	70.258		
4,400.00	4,139.95	4,724.51	4,641.93	25.62	20.81	28.24	1,577.67	2,941.26	2,290.83	2,256.44	34.39	66.615		
4,500.00	4,228.56	4,776.35	4,692.01	26.49	21.09	28.80	1,567.93	2,932.07	2,228.64	2,193.36	35.28	63.163		
4,600.00	4,317.17	4,820.91	4,735.21	27.37	21.33	29.30	1,559.90	2,924.68	2,167.75	2,131.55	36.20	59.882		
4,700.00	4,405.78	4,936.88	4,847.67	28.25	21.97	30.67	1,539.02	2,905.54	2,107.41	2,070.20	37.21	56.636		
4,800.00	4,494.39	5,050.67	4,957.07	29.13	22.62	32.18	1,515.99	2,884.40	2,045.07	2,006.82	38.26	53.459		
4,900.00	4,583.00	5,104.74	5,009.04	30.02	22.93	32.94	1,504.91	2,874.36	1,983.32	1,944.02	39.30	50.463		
5,000.00	4,671.61	5,155.56	5,057.99	30.90	23.22	33.69	1,494.65	2,865.39	1,922.78	1,882.39	40.39	47.605		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,213.00	5,113.42	31.79	23.55	34.58	1,482.76	2,856.11	1,863.71	1,822.17	41.53	44.874		
5,200.00	4,848.83	5,289.05	5,186.76	32.67	23.98	35.84	1,466.51	2,844.25	1,805.56	1,762.81	42.75	42.235		
5,300.00	4,937.44	5,348.99	5,244.52	33.56	24.31	36.89	1,453.54	2,834.83	1,748.00	1,704.00	44.01	39.719		
5,400.00	5,026.05	5,402.89	5,296.66	34.45	24.61	37.86	1,442.46	2,826.86	1,692.06	1,646.75	45.31	37.342		
5,500.00	5,114.66	5,498.47	5,389.09	35.34	25.14	39.67	1,422.69	2,812.68	1,636.90	1,590.18	46.72	35.035		
5,600.00	5,203.27	5,566.91	5,455.21	36.23	25.52	41.04	1,408.45	2,802.24	1,582.34	1,534.16	48.18	32.845		
5,700.00	5,291.88	5,634.37	5,520.51	37.12	25.90	42.44	1,394.88	2,792.09	1,529.03	1,479.34	49.69	30.770		
5,800.00	5,380.50	5,703.10	5,587.10	38.01	26.27	43.94	1,381.13	2,782.07	1,477.20	1,425.92	51.28	28.804		
5,900.00	5,469.11	5,778.72	5,660.45	38.90	26.68	45.66	1,366.39	2,771.09	1,426.68	1,373.72	52.96	26.939		
6,000.00	5,557.72	5,873.34	5,752.28	39.79	27.20	47.91	1,348.82	2,756.59	1,376.94	1,322.23	54.71	25.166		
6,100.00	5,646.33	5,941.53	5,818.55	40.68	27.56	49.59	1,336.87	2,745.78	1,328.26	1,271.74	56.52	23.500		
6,200.00	5,734.94	6,011.34	5,886.48	41.58	27.94	51.39	1,324.90	2,735.05	1,281.49	1,223.07	58.42	21.937		
6,300.00	5,823.55	6,077.20	5,950.41	42.47	28.29	53.21	1,312.52	2,725.21	1,236.80	1,176.39	60.42	20.471		
6,400.00	5,912.16	6,134.09	6,005.83	43.36	28.59	54.83	1,302.23	2,717.46	1,195.05	1,132.58	62.47	19.130		
6,500.00	6,000.77	6,192.88	6,063.40	44.26	28.88	56.51	1,292.67	2,710.47	1,156.60	1,092.05	64.55	17.919		
6,600.00	6,089.38	6,253.93	6,123.50	45.15	29.17	58.26	1,283.85	2,704.35	1,121.57	1,054.94	66.63	16.832		
6,700.00	6,177.99	6,332.02	6,200.60	46.05	29.52	60.52	1,273.61	2,697.40	1,089.48	1,020.71	68.77	15.843		
6,800.00	6,266.60	6,427.00	6,294.53	46.94	29.94	63.35	1,262.39	2,688.80	1,059.39	988.44	70.95	14.931		
6,900.00	6,355.21	6,501.37	6,368.21	47.84	30.25	65.58	1,255.07	2,681.99	1,031.20	958.13	73.06	14.114		
7,000.00	6,443.82	6,574.49	6,440.92	48.74	30.54	67.75	1,249.45	2,676.64	1,006.29	931.17	75.12	13.396		
7,100.00	6,532.43	6,653.66	6,519.78	49.63	30.83	70.12	1,244.26	2,671.92	984.54	907.41	77.12	12.766		
7,200.00	6,621.04	6,743.03	6,608.89	50.53	31.15	72.81	1,239.62	2,666.95	965.10	886.02	79.08	12.204		
7,300.00	6,709.65	6,828.17	6,693.83	51.42	31.45	75.40	1,236.03	2,662.48	948.04	867.09	80.95	11.711		
7,400.00	6,798.26	6,913.84	6,779.39	52.32	31.73	78.00	1,233.55	2,658.68	933.57	850.84	82.72	11.285		
7,500.00	6,886.87	6,999.12	6,864.60	53.22	32.00	80.58	1,232.10	2,655.64	921.68	837.31	84.38	10.924		
7,600.00	6,975.48	7,086.02	6,951.45	54.12	32.27	83.22	1,231.04	2,652.94	912.40	826.48	85.92	10.620		
7,656.30	7,025.36	7,130.89	6,996.29	54.62	32.40	84.60	1,230.48	2,651.63	908.38	821.65	86.73	10.474		
7,700.00	7,064.54	7,164.65	7,030.04	55.00	32.51	78.19	1,229.97	2,650.83	904.84	817.54	87.30	10.365		
7,750.00	7,110.29	7,204.96	7,070.34	55.40	32.63	68.77	1,229.26	2,650.09	898.63	810.75	87.89	10.225		
7,800.00	7,156.67	7,249.47	7,114.84	55.75	32.76	57.27	1,228.60	2,649.59	889.85	801.45	88.40	10.066		
7,850.00	7,203.34	7,295.34	7,160.71	56.05	32.89	44.38	1,228.20	2,649.45	878.31	789.47	88.85	9.886		
7,900.00	7,249.95	7,349.30	7,214.67	56.30	33.04	31.46	1,228.12	2,649.37	863.69	774.44	89.24	9.678		
7,950.00	7,296.14	7,419.97	7,285.33	56.50	33.22	19.61	1,229.27	2,649.12	845.63	756.06	89.57	9.441		
8,000.00	7,341.56	8,000.00	7,823.53	56.64	33.32	-24.03	1,560.22	2,642.12	809.82	741.44	68.37	11.844		
8,050.00	7,385.86	8,120.19	7,840.34	56.74	33.07	-48.10	1,593.31	2,641.27	764.48	697.35	67.13	11.389		
8,100.00	7,428.71	8,120.21	7,840.35	56.79	33.07	-63.61	1,593.34	2,641.27	719.88	652.10	67.78	10.621		
8,150.00	7,469.77	8,112.77	7,837.13	56.80	33.08	-75.17	1,586.63	2,641.44	676.56	607.90	68.66	9.854		
8,200.00	7,508.75	8,101.42	7,832.12	56.77	33.11	-83.82	1,576.45	2,641.70	635.03	565.46	69.57	9.129		
8,250.00	7,545.33	8,078.06	7,821.42	56.70	33.16	-88.97	1,555.69	2,642.26	595.75	524.68	71.07	8.383		
8,300.00	7,579.25	8,053.05	7,809.31	56.59	33.21	-92.57	1,533.81	2,642.79	559.09	486.65	72.44	7.718		
8,350.00	7,610.24	8,021.32	7,792.89	56.45	33.27	-94.21	1,506.67	2,643.34	525.49	451.48	74.00	7.101		
8,400.00	7,638.06	7,991.18	7,776.04	56.28	33.33	-95.12	1,481.69	2,643.79	495.40	420.34	75.06	6.600		
8,450.00	7,662.52	7,962.51	7,758.96	56.09	33.38	-95.38	1,458.67	2,644.16	469.46	393.95	75.51	6.218		
8,500.00	7,683.41	7,930.58	7,738.68	55.88	33.43	-94.47	1,434.02	2,644.50	448.18	372.58	75.61	5.928		
8,550.00	7,700.59	7,900.33	7,718.02	55.64	33.47	-93.02	1,411.92	2,644.66	431.97	357.05	74.93	5.765		
8,600.00	7,713.91	7,875.18	7,699.78	55.39	33.50	-91.48	1,394.62	2,644.80	421.46	348.17	73.29	5.750 SF		
8,650.00	7,723.29	7,852.12	7,682.22	55.14	33.52	-89.49	1,379.68	2,645.01	417.02	345.89	71.13	5.862 ES		
8,660.66	7,724.77	7,847.71	7,678.79	55.08	33.52	-89.03	1,376.91	2,645.07	416.88	346.26	70.62	5.903 CC		
8,700.00	7,728.64	7,831.22	7,665.79	54.87	33.53	-87.08	1,366.78	2,645.38	418.77	350.01	68.76	6.090		
8,740.83	7,730.00	7,813.82	7,651.78	54.65	33.55	-84.60	1,356.46	2,645.87	424.57	357.58	66.99	6.338		
8,800.00	7,730.00	7,786.03	7,628.88	54.33	33.56	-81.51	1,340.73	2,646.84	438.43	373.48	64.95	6.750		
8,900.00	7,730.00	7,743.06	7,592.39	53.82	33.57	-76.72	1,318.13	2,648.42	473.81	410.89	62.91	7.531		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,705.43	7,559.43	53.33	33.57	-72.57	1,300.02	2,649.64	522.18	459.56	62.62	8.339		
9,100.00	7,730.00	7,670.00	7,527.57	52.87	33.56	-68.74	1,284.55	2,650.48	581.10	517.61	63.49	9.153		
9,200.00	7,730.00	7,648.31	7,507.67	52.44	33.55	-66.44	1,275.92	2,650.80	648.27	583.18	65.08	9.961		
9,300.00	7,730.00	7,622.00	7,483.15	52.03	33.53	-63.70	1,266.41	2,650.99	721.89	655.14	66.75	10.816		
9,400.00	7,730.00	7,610.89	7,472.66	51.65	33.52	-62.57	1,262.72	2,651.01	800.36	731.82	68.54	11.678		
9,500.00	7,730.00	7,597.37	7,459.81	51.29	33.51	-61.21	1,258.53	2,651.02	882.68	812.57	70.11	12.590		
9,600.00	7,730.00	7,575.00	7,438.33	50.95	33.49	-59.01	1,252.30	2,650.97	968.10	896.72	71.38	13.562		
9,700.00	7,730.00	7,575.00	7,438.33	50.64	33.49	-59.01	1,252.30	2,650.97	1,055.52	982.82	72.70	14.518		
9,800.00	7,730.00	7,575.00	7,438.33	50.35	33.49	-59.01	1,252.30	2,650.97	1,145.00	1,071.18	73.82	15.510		
9,900.00	7,730.00	7,556.77	7,420.65	50.09	33.46	-57.27	1,247.85	2,650.87	1,235.72	1,161.07	74.66	16.552		
10,000.00	7,730.00	7,548.85	7,412.93	49.86	33.45	-56.52	1,246.08	2,650.79	1,327.72	1,252.28	75.45	17.598		
10,100.00	7,730.00	7,528.00	7,392.51	49.65	33.43	-54.61	1,241.89	2,650.51	1,420.89	1,344.83	76.06	18.681		
10,200.00	7,730.00	7,528.00	7,392.51	49.48	33.43	-54.61	1,241.89	2,650.51	1,514.51	1,437.80	76.71	19.744		
10,300.00	7,730.00	7,528.00	7,392.51	49.35	33.43	-54.61	1,241.89	2,650.51	1,608.90	1,531.63	77.27	20.821		
10,400.00	7,730.00	7,528.00	7,392.51	49.27	33.43	-54.61	1,241.89	2,650.51	1,703.93	1,626.16	77.77	21.910		
10,500.00	7,730.00	7,528.00	7,392.51	49.26	33.43	-54.61	1,241.89	2,650.51	1,799.50	1,721.29	78.21	23.009		
10,600.00	7,730.00	7,512.25	7,377.01	49.32	33.40	-53.22	1,239.12	2,650.25	1,895.31	1,816.76	78.55	24.128		
10,700.00	7,730.00	7,507.25	7,372.07	49.51	33.39	-52.78	1,238.31	2,650.16	1,991.58	1,912.69	78.89	25.244		
10,800.00	7,730.00	7,502.59	7,367.48	49.83	33.38	-52.38	1,237.58	2,650.08	2,088.16	2,008.96	79.20	26.365		
10,900.00	7,730.00	7,498.25	7,363.18	50.31	33.38	-52.01	1,236.92	2,650.00	2,185.02	2,105.54	79.48	27.490		
11,000.00	7,730.00	7,481.00	7,346.11	50.96	33.35	-50.57	1,234.52	2,649.67	2,282.26	2,202.55	79.71	28.632		
11,100.00	7,730.00	7,481.00	7,346.11	51.75	33.35	-50.57	1,234.52	2,649.67	2,379.51	2,299.55	79.96	29.760		
11,200.00	7,730.00	7,481.00	7,346.11	52.66	33.35	-50.57	1,234.52	2,649.67	2,476.98	2,396.80	80.18	30.893		
11,300.00	7,730.00	7,481.00	7,346.11	53.67	33.35	-50.57	1,234.52	2,649.67	2,574.64	2,494.25	80.39	32.028		
11,400.00	7,730.00	7,481.00	7,346.11	54.75	33.35	-50.57	1,234.52	2,649.67	2,672.47	2,591.89	80.58	33.167		
11,500.00	7,730.00	7,481.00	7,346.11	55.89	33.35	-50.57	1,234.52	2,649.67	2,770.46	2,689.71	80.75	34.308		
11,600.00	7,730.00	7,481.00	7,346.11	57.07	33.35	-50.57	1,234.52	2,649.67	2,868.59	2,787.67	80.91	35.452		
11,700.00	7,730.00	7,481.00	7,346.11	58.30	33.35	-50.57	1,234.52	2,649.67	2,966.84	2,885.77	81.07	36.598		
11,800.00	7,730.00	7,481.00	7,346.11	59.55	33.35	-50.57	1,234.52	2,649.67	3,065.20	2,984.00	81.21	37.745		
11,900.00	7,730.00	7,481.00	7,346.11	60.84	33.35	-50.57	1,234.52	2,649.67	3,163.67	3,082.33	81.34	38.894		
12,000.00	7,730.00	7,481.00	7,346.11	62.15	33.35	-50.57	1,234.52	2,649.67	3,262.23	3,180.77	81.47	40.044		
12,100.00	7,730.00	7,481.00	7,346.11	63.49	33.35	-50.57	1,234.52	2,649.67	3,360.88	3,279.29	81.58	41.195		
12,200.00	7,730.00	7,481.00	7,346.11	64.85	33.35	-50.57	1,234.52	2,649.67	3,459.60	3,377.91	81.70	42.347		
12,300.00	7,730.00	7,481.00	7,346.11	66.22	33.35	-50.57	1,234.52	2,649.67	3,558.40	3,476.60	81.80	43.500		
12,400.00	7,730.00	7,460.12	7,325.37	67.62	33.31	-48.90	1,232.14	2,649.34	3,656.88	3,575.00	81.89	44.658		
12,500.00	7,730.00	7,458.58	7,323.84	69.03	33.30	-48.78	1,231.99	2,649.32	3,755.75	3,673.76	81.98	45.812		
12,600.00	7,730.00	7,457.11	7,322.37	70.45	33.30	-48.66	1,231.85	2,649.31	3,854.67	3,772.59	82.07	46.966		
12,700.00	7,730.00	7,455.70	7,320.97	71.90	33.30	-48.56	1,231.71	2,649.29	3,953.64	3,871.48	82.16	48.120		
12,800.00	7,730.00	7,454.35	7,319.62	73.35	33.29	-48.45	1,231.59	2,649.28	4,052.66	3,970.41	82.25	49.275		
12,900.00	7,730.00	7,453.05	7,318.33	74.81	33.29	-48.35	1,231.47	2,649.26	4,151.72	4,069.39	82.33	50.430		
13,000.00	7,730.00	7,433.00	7,298.33	76.29	33.25	-46.85	1,229.97	2,649.14	4,251.12	4,168.73	82.39	51.595		
13,100.00	7,730.00	7,433.00	7,298.33	77.78	33.25	-46.85	1,229.97	2,649.14	4,350.23	4,267.75	82.47	52.749		
13,200.00	7,730.00	7,433.00	7,298.33	79.28	33.25	-46.85	1,229.97	2,649.14	4,449.37	4,366.83	82.54	53.903		
13,300.00	7,730.00	7,433.00	7,298.33	80.79	33.25	-46.85	1,229.97	2,649.14	4,548.55	4,465.94	82.62	55.057		
13,400.00	7,730.00	7,433.00	7,298.33	82.31	33.25	-46.85	1,229.97	2,649.14	4,647.77	4,565.08	82.68	56.211		
13,500.00	7,730.00	7,433.00	7,298.33	83.84	33.25	-46.85	1,229.97	2,649.14	4,747.02	4,664.27	82.75	57.364		
13,600.00	7,730.00	7,433.00	7,298.33	85.37	33.25	-46.85	1,229.97	2,649.14	4,846.30	4,763.48	82.82	58.518		
13,700.00	7,730.00	7,433.00	7,298.33	86.92	33.25	-46.85	1,229.97	2,649.14	4,945.61	4,862.73	82.88	59.671		
13,800.00	7,730.00	7,433.00	7,298.33	88.47	33.25	-46.85	1,229.97	2,649.14	5,044.95	4,962.00	82.94	60.824		
13,900.00	7,730.00	7,433.00	7,298.33	90.03	33.25	-46.85	1,229.97	2,649.14	5,144.31	5,061.31	83.00	61.977		
14,000.00	7,730.00	7,433.00	7,298.33	91.59	33.25	-46.85	1,229.97	2,649.14	5,243.70	5,160.63	83.06	63.129		
14,100.00	7,730.00	7,433.00	7,298.33	93.16	33.25	-46.85	1,229.97	2,649.14	5,343.11	5,259.99	83.12	64.281		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,200.00	7,730.00	7,433.00	7,298.33	94.74	33.25	-46.85	1,229.97	2,649.14	5,442.54	5,359.36	83.18	65.432		
14,300.00	7,730.00	7,433.00	7,298.33	96.33	33.25	-46.85	1,229.97	2,649.14	5,541.99	5,458.76	83.23	66.583		
14,400.00	7,730.00	7,433.00	7,298.33	97.92	33.25	-46.85	1,229.97	2,649.14	5,641.46	5,558.17	83.29	67.733		
14,500.00	7,730.00	7,433.00	7,298.33	99.51	33.25	-46.85	1,229.97	2,649.14	5,740.95	5,657.61	83.34	68.883		
14,600.00	7,730.00	7,433.00	7,298.33	101.11	33.25	-46.85	1,229.97	2,649.14	5,840.46	5,757.06	83.40	70.032		
14,700.00	7,730.00	7,433.00	7,298.33	102.72	33.25	-46.85	1,229.97	2,649.14	5,939.98	5,856.53	83.45	71.180		
14,800.00	7,730.00	7,433.00	7,298.33	104.33	33.25	-46.85	1,229.97	2,649.14	6,039.52	5,956.02	83.50	72.328		
14,900.00	7,730.00	7,433.00	7,298.33	105.94	33.25	-46.85	1,229.97	2,649.14	6,139.08	6,055.52	83.55	73.474		
15,000.00	7,730.00	7,433.00	7,298.33	107.56	33.25	-46.85	1,229.97	2,649.14	6,238.65	6,155.04	83.61	74.620		
15,100.00	7,730.00	7,433.00	7,298.33	109.18	33.25	-46.85	1,229.97	2,649.14	6,338.23	6,254.57	83.66	75.766		
15,200.00	7,730.00	7,433.00	7,298.33	110.81	33.25	-46.85	1,229.97	2,649.14	6,437.82	6,354.12	83.71	76.910		
15,300.00	7,730.00	7,433.00	7,298.33	112.44	33.25	-46.85	1,229.97	2,649.14	6,537.43	6,453.67	83.76	78.054		
15,400.00	7,730.00	7,433.00	7,298.33	114.08	33.25	-46.85	1,229.97	2,649.14	6,637.05	6,553.24	83.81	79.196		
15,500.00	7,730.00	7,433.00	7,298.33	115.72	33.25	-46.85	1,229.97	2,649.14	6,736.68	6,652.83	83.85	80.338		
15,600.00	7,730.00	7,433.00	7,298.33	117.36	33.25	-46.85	1,229.97	2,649.14	6,836.32	6,752.42	83.90	81.479		
15,700.00	7,730.00	7,433.00	7,298.33	119.00	33.25	-46.85	1,229.97	2,649.14	6,935.97	6,852.02	83.95	82.619		
15,800.00	7,730.00	7,433.00	7,298.33	120.65	33.25	-46.85	1,229.97	2,649.14	7,035.64	6,951.64	84.00	83.757		
15,900.00	7,730.00	7,433.00	7,298.33	122.30	33.25	-46.85	1,229.97	2,649.14	7,135.31	7,051.26	84.05	84.895		
16,000.00	7,730.00	7,433.00	7,298.33	123.96	33.25	-46.85	1,229.97	2,649.14	7,234.99	7,150.89	84.10	86.032		
16,100.00	7,730.00	7,433.00	7,298.33	125.61	33.25	-46.85	1,229.97	2,649.14	7,334.68	7,250.53	84.14	87.168		
16,200.00	7,730.00	7,433.00	7,298.33	127.27	33.25	-46.85	1,229.97	2,649.14	7,434.37	7,350.18	84.19	88.302		
16,300.00	7,730.00	7,433.00	7,298.33	128.94	33.25	-46.85	1,229.97	2,649.14	7,534.08	7,449.84	84.24	89.436		
16,400.00	7,730.00	7,433.00	7,298.33	130.60	33.25	-46.85	1,229.97	2,649.14	7,633.79	7,549.50	84.29	90.568		
16,500.00	7,730.00	7,433.00	7,298.33	132.27	33.25	-46.85	1,229.97	2,649.14	7,733.51	7,649.18	84.34	91.699		
16,600.00	7,730.00	7,433.00	7,298.33	133.94	33.25	-46.85	1,229.97	2,649.14	7,833.24	7,748.86	84.38	92.829		
16,700.00	7,730.00	7,433.00	7,298.33	135.61	33.25	-46.85	1,229.97	2,649.14	7,932.97	7,848.54	84.43	93.958		
16,800.00	7,730.00	7,433.00	7,298.33	137.28	33.25	-46.85	1,229.97	2,649.14	8,032.71	7,948.24	84.48	95.086		
16,900.00	7,730.00	7,433.00	7,298.33	138.96	33.25	-46.85	1,229.97	2,649.14	8,132.46	8,047.94	84.53	96.212		
17,000.00	7,730.00	7,433.00	7,298.33	140.64	33.25	-46.85	1,229.97	2,649.14	8,232.22	8,147.64	84.57	97.337		
17,100.00	7,730.00	7,433.00	7,298.33	142.32	33.25	-46.85	1,229.97	2,649.14	8,331.97	8,247.35	84.62	98.461		
17,200.00	7,730.00	7,433.00	7,298.33	144.00	33.25	-46.85	1,229.97	2,649.14	8,431.74	8,347.07	84.67	99.584		
17,300.00	7,730.00	7,433.00	7,298.33	145.69	33.25	-46.85	1,229.97	2,649.14	8,531.51	8,446.79	84.72	100.705		
17,400.00	7,730.00	7,433.00	7,298.33	147.37	33.25	-46.85	1,229.97	2,649.14	8,631.29	8,546.52	84.77	101.825		
17,500.00	7,730.00	7,433.00	7,298.33	149.06	33.25	-46.85	1,229.97	2,649.14	8,731.07	8,646.25	84.81	102.943		
17,600.00	7,730.00	7,433.00	7,298.33	150.75	33.25	-46.85	1,229.97	2,649.14	8,830.85	8,745.99	84.86	104.060		
17,700.00	7,730.00	7,433.00	7,298.33	152.44	33.25	-46.85	1,229.97	2,649.14	8,930.64	8,845.73	84.91	105.176		
17,800.00	7,730.00	7,433.00	7,298.33	154.13	33.25	-46.85	1,229.97	2,649.14	9,030.44	8,945.48	84.96	106.290		
17,900.00	7,730.00	7,433.00	7,298.33	155.83	33.25	-46.85	1,229.97	2,649.14	9,130.24	9,045.23	85.01	107.403		
18,000.00	7,730.00	7,433.00	7,298.33	157.52	33.25	-46.85	1,229.97	2,649.14	9,230.04	9,144.99	85.06	108.515		
18,100.00	7,730.00	7,433.00	7,298.33	159.22	33.25	-46.85	1,229.97	2,649.14	9,329.85	9,244.74	85.11	109.624		
18,200.00	7,730.00	7,433.00	7,298.33	160.92	33.25	-46.85	1,229.97	2,649.14	9,429.66	9,344.51	85.16	110.733		
18,300.00	7,730.00	7,433.00	7,298.33	162.62	33.25	-46.85	1,229.97	2,649.14	9,529.48	9,444.27	85.21	111.840		
18,400.00	7,730.00	7,433.00	7,298.33	164.32	33.25	-46.85	1,229.97	2,649.14	9,629.30	9,544.04	85.26	112.945		
18,426.22	7,730.00	7,433.00	7,298.33	164.76	33.25	-46.85	1,229.97	2,649.14	9,655.47	9,570.21	85.27	113.235		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	58.61	2,112.75	3,462.22	4,056.13					
100.00	100.00	50.51	50.51	0.13	0.09	58.61	2,112.76	3,462.25	4,055.99	4,055.76	0.23	N/A		
200.00	200.00	125.00	125.00	0.49	0.36	58.61	2,112.82	3,462.77	4,056.61	4,055.76	0.85	4,760.281		
300.00	300.00	193.70	193.69	0.85	0.61	58.61	2,113.09	3,463.68	4,057.93	4,056.47	1.46	2,784.482		
400.00	400.00	287.96	287.93	1.21	0.94	58.62	2,113.92	3,465.22	4,059.77	4,057.62	2.15	1,885.644		
500.00	500.00	442.49	442.45	1.57	1.49	58.62	2,114.63	3,467.00	4,061.05	4,057.99	3.06	1,326.331		
600.00	600.00	567.81	567.78	1.93	1.92	58.62	2,114.44	3,467.16	4,061.05	4,057.20	3.85	1,054.882		
700.00	700.00	679.48	679.44	2.29	2.30	58.62	2,114.68	3,466.73	4,060.84	4,056.25	4.59	885.513		
800.00	800.00	804.04	803.99	2.64	2.73	58.61	2,114.68	3,465.58	4,060.05	4,054.68	5.37	756.212		
900.00	900.00	883.16	883.11	3.00	3.00	58.60	2,114.54	3,464.82	4,059.16	4,053.16	6.00	676.437		
1,000.00	1,000.00	978.64	978.59	3.36	3.33	58.60	2,114.87	3,464.29	4,058.85	4,052.16	6.69	606.543		
1,100.00	1,100.00	1,114.47	1,114.41	3.72	3.81	58.58	2,115.30	3,462.65	4,057.99	4,050.47	7.52	539.316		
1,200.00	1,200.00	1,861.24	1,856.80	4.08	6.52	58.71	2,074.57	3,413.70	4,054.79	4,044.38	10.41	389.387		
1,300.00	1,299.98	1,973.83	1,967.13	4.43	6.97	11.83	2,055.39	3,402.15	4,035.39	4,024.22	11.17	361.310		
1,400.00	1,399.84	2,121.23	2,111.06	4.79	7.59	12.82	2,026.28	3,389.51	4,012.93	4,000.88	12.05	333.023		
1,500.00	1,499.45	2,177.76	2,166.15	5.15	7.84	12.47	2,014.47	3,384.81	3,986.53	3,973.90	12.63	315.641		
1,600.00	1,598.70	2,273.52	2,259.54	5.51	8.26	12.84	1,994.82	3,377.08	3,957.38	3,944.03	13.35	296.488		
1,700.00	1,697.47	2,351.77	2,335.83	5.89	8.61	13.20	1,978.60	3,370.81	3,925.02	3,911.01	14.01	280.224		
1,800.00	1,795.62	2,416.13	2,398.73	6.28	8.90	13.55	1,965.95	3,365.67	3,890.06	3,875.45	14.62	266.118		
1,900.00	1,893.06	2,474.13	2,455.53	6.69	9.16	13.90	1,955.07	3,361.28	3,852.77	3,837.57	15.21	253.349		
2,000.00	1,989.64	2,531.74	2,512.06	7.13	9.42	14.28	1,944.74	3,357.20	3,813.21	3,797.41	15.80	241.394		
2,100.00	2,085.27	2,573.00	2,552.61	7.61	9.60	14.64	1,937.64	3,354.45	3,771.44	3,755.11	16.33	230.955		
2,200.00	2,179.82	2,643.04	2,621.58	8.12	9.90	15.12	1,926.24	3,350.09	3,727.38	3,710.41	16.97	219.693		
2,300.00	2,273.17	2,697.33	2,675.16	8.67	10.14	15.59	1,918.04	3,346.98	3,681.22	3,663.67	17.55	209.740		
2,400.00	2,365.21	2,760.00	2,737.12	9.27	10.41	16.12	1,909.25	3,343.68	3,632.96	3,614.79	18.17	199.937		
2,500.00	2,455.84	2,909.46	2,884.98	9.92	11.05	17.03	1,889.78	3,334.03	3,581.60	3,562.52	19.08	187.687		
2,580.62	2,527.80	2,996.86	2,971.30	10.49	11.43	17.71	1,877.93	3,327.04	3,536.97	3,517.26	19.71	179.457		
2,600.00	2,544.97	3,012.92	2,987.14	10.63	11.50	17.78	1,875.60	3,325.81	3,526.03	3,506.18	19.85	177.668		
2,700.00	2,633.58	3,079.02	3,052.32	11.37	11.79	18.10	1,865.68	3,321.03	3,469.69	3,449.20	20.49	169.349		
2,800.00	2,722.19	3,130.00	3,102.61	12.13	12.02	18.35	1,858.10	3,317.61	3,413.95	3,392.85	21.10	161.830		
2,900.00	2,810.80	3,185.55	3,157.50	12.91	12.26	18.62	1,850.29	3,314.15	3,358.97	3,337.24	21.73	154.585		
3,000.00	2,899.41	3,413.07	3,382.25	13.71	13.25	19.74	1,819.97	3,296.36	3,304.04	3,281.16	22.89	144.362		
3,100.00	2,988.02	3,473.94	3,442.22	14.52	13.53	20.04	1,811.72	3,289.95	3,246.36	3,222.80	23.55	137.830		
3,200.00	3,076.63	3,575.84	3,542.66	15.34	13.98	20.56	1,798.05	3,279.44	3,189.06	3,164.71	24.34	131.006		
3,300.00	3,165.24	3,668.45	3,633.77	16.16	14.41	21.07	1,785.07	3,269.13	3,130.98	3,105.86	25.12	124.661		
3,400.00	3,253.85	3,790.24	3,753.38	17.00	14.97	21.78	1,766.85	3,255.34	3,072.65	3,046.68	25.98	118.293		
3,500.00	3,342.46	3,861.74	3,823.41	17.84	15.31	22.24	1,754.79	3,247.31	3,013.81	2,987.08	26.73	112.760		
3,600.00	3,431.07	3,916.45	3,876.97	18.69	15.58	22.62	1,745.27	3,241.52	2,955.45	2,928.00	27.45	107.653		
3,700.00	3,519.68	3,963.37	3,922.99	19.55	15.80	22.95	1,737.37	3,236.97	2,898.08	2,869.91	28.18	102.857		
3,800.00	3,608.29	4,033.26	3,991.63	20.40	16.13	23.45	1,725.72	3,230.79	2,841.56	2,812.59	28.97	98.076		
3,900.00	3,696.90	4,095.65	4,052.82	21.26	16.42	23.93	1,714.69	3,225.59	2,785.37	2,755.60	29.77	93.563		
4,000.00	3,785.51	4,138.63	4,095.02	22.13	16.62	24.27	1,707.22	3,222.50	2,730.31	2,699.77	30.54	89.413		
4,100.00	3,874.12	4,211.41	4,166.65	23.00	16.96	24.86	1,695.15	3,217.96	2,676.43	2,645.04	31.39	85.257		
4,200.00	3,962.73	4,416.76	4,368.28	23.87	17.93	26.56	1,661.44	3,198.71	2,620.35	2,587.80	32.55	80.496		
4,300.00	4,051.34	4,491.74	4,441.53	24.74	18.30	27.24	1,647.85	3,190.31	2,562.95	2,529.50	33.45	76.628		
4,400.00	4,139.95	4,559.15	4,507.50	25.62	18.63	27.87	1,636.07	3,182.99	2,506.25	2,471.91	34.35	72.969		
4,500.00	4,228.56	4,655.60	4,601.64	26.49	19.11	28.84	1,617.96	3,172.45	2,449.46	2,414.13	35.33	69.327		
4,600.00	4,317.17	4,709.75	4,654.52	27.37	19.38	29.41	1,607.79	3,166.70	2,393.29	2,357.03	36.26	66.000		
4,700.00	4,405.78	4,785.87	4,729.06	28.25	19.75	30.21	1,594.51	3,158.82	2,338.05	2,300.80	37.25	62.767		
4,800.00	4,494.39	4,877.17	4,818.50	29.13	20.20	31.18	1,579.27	3,148.66	2,282.80	2,244.52	38.28	59.630		
4,900.00	4,583.00	4,957.05	4,896.46	30.02	20.59	32.13	1,564.21	3,139.99	2,227.66	2,188.32	39.34	56.623		
5,000.00	4,671.61	5,027.11	4,964.78	30.90	20.95	33.01	1,550.54	3,132.63	2,173.13	2,132.71	40.43	53.756		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	5,090.05	5,026.19	31.79	21.26	33.83	1,538.24	3,126.36	2,119.53	2,078.00	41.53	51.033		
5,200.00	4,848.83	5,154.67	5,089.29	32.67	21.59	34.70	1,525.73	3,120.31	2,067.00	2,024.33	42.68	48.434		
5,300.00	4,937.44	5,219.53	5,152.74	33.56	21.91	35.60	1,513.53	3,114.53	2,015.56	1,971.70	43.86	45.958		
5,400.00	5,026.05	5,280.75	5,212.68	34.45	22.21	36.47	1,502.21	3,109.51	1,965.37	1,920.31	45.06	43.612		
5,500.00	5,114.66	5,342.44	5,273.15	35.34	22.51	37.38	1,490.86	3,104.97	1,916.58	1,870.26	46.31	41.383		
5,600.00	5,203.27	5,411.16	5,340.53	36.23	22.84	38.44	1,478.11	3,100.54	1,869.23	1,821.61	47.62	39.251		
5,700.00	5,291.88	5,504.22	5,431.72	37.12	23.29	39.93	1,460.67	3,094.12	1,822.33	1,773.29	49.04	37.159		
5,800.00	5,380.50	5,564.10	5,490.44	38.01	23.58	40.92	1,449.61	3,090.16	1,776.64	1,726.22	50.42	35.237		
5,900.00	5,469.11	5,639.94	5,564.91	38.90	23.93	42.21	1,436.02	3,085.67	1,732.53	1,680.65	51.88	33.395		
6,000.00	5,557.72	5,723.13	5,646.70	39.79	24.33	43.67	1,421.66	3,080.57	1,689.33	1,635.93	53.40	31.635		
6,100.00	5,646.33	5,845.89	5,767.39	40.68	24.91	45.90	1,401.07	3,071.82	1,646.65	1,591.59	55.06	29.906		
6,200.00	5,734.94	5,952.05	5,871.37	41.58	25.43	47.97	1,382.41	3,061.32	1,602.67	1,545.93	56.74	28.245		
6,300.00	5,823.55	6,014.99	5,933.00	42.47	25.73	49.26	1,371.34	3,054.89	1,559.79	1,501.40	58.39	26.713		
6,400.00	5,912.16	6,075.97	5,992.88	43.36	26.02	50.52	1,361.25	3,049.37	1,519.18	1,459.11	60.07	25.290		
6,500.00	6,000.77	6,138.46	6,054.42	44.26	26.32	51.83	1,351.55	3,044.44	1,480.91	1,419.12	61.79	23.968		
6,600.00	6,089.38	6,238.39	6,152.94	45.15	26.78	53.97	1,336.77	3,036.67	1,444.20	1,380.58	63.62	22.700		
6,700.00	6,177.99	6,310.86	6,224.31	46.05	27.12	55.60	1,325.81	3,030.51	1,408.53	1,343.08	65.45	21.521		
6,800.00	6,266.60	6,377.73	6,290.15	46.94	27.43	57.16	1,315.37	3,025.29	1,375.20	1,307.90	67.30	20.435		
6,900.00	6,355.21	6,444.00	6,355.58	47.84	27.73	58.72	1,305.80	3,020.95	1,344.56	1,275.41	69.15	19.445		
7,000.00	6,443.82	6,512.53	6,423.41	48.74	28.02	60.33	1,296.69	3,017.35	1,316.64	1,245.65	70.99	18.547		
7,100.00	6,532.43	6,585.28	6,495.57	49.63	28.33	62.05	1,287.88	3,014.41	1,291.39	1,218.56	72.83	17.732		
7,200.00	6,621.04	6,658.49	6,568.33	50.53	28.62	63.77	1,280.07	3,012.31	1,268.68	1,194.04	74.64	16.998		
7,300.00	6,709.65	6,733.46	6,642.94	51.42	28.91	65.52	1,272.86	3,011.16	1,248.67	1,172.25	76.41	16.341		
7,400.00	6,798.26	6,824.37	6,733.53	52.32	29.24	67.64	1,265.38	3,010.47	1,230.81	1,152.60	78.21	15.737		
7,500.00	6,886.87	6,941.21	6,850.19	53.22	29.65	70.32	1,259.27	3,008.51	1,212.99	1,132.96	80.02	15.158		
7,600.00	6,975.48	7,030.16	6,939.10	54.12	29.94	72.30	1,257.18	3,007.33	1,196.27	1,114.59	81.68	14.646		
7,656.30	7,025.36	7,081.82	6,990.76	54.62	30.10	73.46	1,256.42	3,006.76	1,187.52	1,104.93	82.59	14.378		
7,700.00	7,064.54	7,123.89	7,032.82	55.00	30.23	74.67	1,256.00	3,006.29	1,180.10	1,096.84	83.26	14.174		
7,750.00	7,110.29	7,174.03	7,082.96	55.40	30.38	75.93	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
7,800.00	7,156.67	7,218.89	7,122.77	55.75	30.53	77.24	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
7,850.00	7,203.34	7,271.24	7,177.38	56.05	30.68	78.59	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
7,900.00	7,249.95	7,321.07	7,231.88	56.30	30.83	79.98	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
7,950.00	7,296.14	7,367.44	7,278.41	56.50	30.97	81.40	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,000.00	7,341.56	7,412.83	7,323.09	56.64	31.10	82.86	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,050.00	7,385.86	7,456.84	7,367.73	56.74	31.22	84.34	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,100.00	7,428.71	7,499.07	7,412.07	56.79	31.33	85.84	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,150.00	7,469.77	7,539.94	7,453.05	56.80	31.43	87.36	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,200.00	7,508.75	7,579.61	7,491.31	56.77	31.52	88.90	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,250.00	7,545.33	7,616.02	7,527.30	56.70	31.60	90.46	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,300.00	7,579.25	7,652.92	7,561.32	56.59	31.67	92.04	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,350.00	7,610.24	7,685.91	7,592.61	56.45	31.73	93.63	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,400.00	7,638.06	7,714.25	7,620.03	56.28	31.78	95.24	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,450.00	7,662.52	7,738.88	7,644.31	56.09	31.81	96.86	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,500.00	7,683.41	7,759.44	7,665.03	55.88	31.82	98.50	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,550.00	7,700.59	7,776.63	7,681.60	55.64	31.81	100.16	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,589.94	7,711.55	7,786.00	7,691.07	55.44	31.78	101.84	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,600.00	7,713.91	7,786.00	7,691.07	55.39	31.73	103.53	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,650.00	7,723.29	7,792.92	7,700.51	55.14	31.66	105.24	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,700.00	7,728.64	7,798.00	7,705.95	54.87	31.57	106.96	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,740.83	7,730.00	7,799.18	7,707.81	54.65	31.46	108.70	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,800.00	7,730.00	7,800.00	7,708.00	54.33	31.33	110.46	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		
8,900.00	7,730.00	7,800.00	7,708.00	53.82	31.18	112.24	1,255.92	3,005.78	1,169.50	1,085.56	83.94	13.933		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,587.45	7,473.30	53.33	30.89	-74.29	1,372.71	3,004.43	879.12	815.94	63.18	13.915		
9,100.00	7,730.00	7,550.21	7,441.60	52.87	30.89	-72.14	1,353.19	3,004.79	923.11	860.00	63.11	14.628		
9,200.00	7,730.00	7,519.00	7,414.24	52.44	30.88	-70.32	1,338.19	3,004.59	973.52	909.99	63.52	15.326		
9,300.00	7,730.00	7,491.93	7,389.99	52.03	30.87	-68.74	1,326.15	3,004.19	1,029.89	965.60	64.29	16.019		
9,400.00	7,730.00	7,472.00	7,371.90	51.65	30.87	-67.58	1,317.81	3,003.92	1,091.64	1,026.32	65.32	16.713		
9,500.00	7,730.00	7,451.64	7,353.21	51.29	30.85	-66.40	1,309.73	3,003.70	1,158.02	1,091.59	66.43	17.431		
9,600.00	7,730.00	7,425.00	7,328.49	50.95	30.84	-64.88	1,299.82	3,003.56	1,228.49	1,160.96	67.53	18.192		
9,700.00	7,730.00	7,425.00	7,328.49	50.64	30.84	-64.88	1,299.82	3,003.56	1,302.24	1,233.46	68.78	18.933		
9,800.00	7,730.00	7,407.56	7,312.12	50.35	30.82	-63.89	1,293.80	3,003.56	1,378.99	1,309.14	69.85	19.742		
9,900.00	7,730.00	7,396.40	7,301.56	50.09	30.81	-63.27	1,290.16	3,003.58	1,458.32	1,387.43	70.89	20.571		
10,000.00	7,730.00	7,378.00	7,284.04	49.86	30.79	-62.24	1,284.56	3,003.67	1,539.90	1,468.09	71.81	21.443		
10,100.00	7,730.00	7,378.00	7,284.04	49.65	30.79	-62.24	1,284.56	3,003.67	1,623.23	1,550.48	72.76	22.310		
10,200.00	7,730.00	7,378.00	7,284.04	49.48	30.79	-62.24	1,284.56	3,003.67	1,708.36	1,634.74	73.62	23.206		
10,300.00	7,730.00	7,358.64	7,265.45	49.35	30.77	-61.18	1,279.17	3,003.80	1,794.68	1,720.37	74.31	24.150		
10,400.00	7,730.00	7,350.60	7,257.69	49.27	30.75	-60.74	1,277.07	3,003.85	1,882.34	1,807.34	75.00	25.098		
10,500.00	7,730.00	7,331.00	7,238.68	49.26	30.73	-59.69	1,272.30	3,003.99	1,971.19	1,895.61	75.58	26.080		
10,600.00	7,730.00	7,331.00	7,238.68	49.32	30.73	-59.69	1,272.30	3,003.99	2,060.76	1,984.57	76.19	27.048		
10,700.00	7,730.00	7,331.00	7,238.68	49.51	30.73	-59.69	1,272.30	3,003.99	2,151.25	2,074.51	76.74	28.032		
10,800.00	7,730.00	7,331.00	7,238.68	49.83	30.73	-59.69	1,272.30	3,003.99	2,242.55	2,165.30	77.25	29.030		
10,900.00	7,730.00	7,331.00	7,238.68	50.31	30.73	-59.69	1,272.30	3,003.99	2,334.56	2,256.85	77.71	30.040		
11,000.00	7,730.00	7,331.00	7,238.68	50.96	30.73	-59.69	1,272.30	3,003.99	2,427.20	2,349.06	78.14	31.062		
11,100.00	7,730.00	7,331.00	7,238.68	51.75	30.73	-59.69	1,272.30	3,003.99	2,520.41	2,441.87	78.53	32.093		
11,200.00	7,730.00	7,309.28	7,217.45	52.66	30.69	-58.54	1,267.70	3,004.19	2,613.62	2,534.77	78.85	33.147		
11,300.00	7,730.00	7,305.87	7,214.11	53.67	30.69	-58.36	1,267.05	3,004.22	2,707.61	2,628.43	79.18	34.195		
11,400.00	7,730.00	7,284.00	7,192.55	54.75	30.65	-57.22	1,263.37	3,004.50	2,802.36	2,722.91	79.45	35.270		
11,500.00	7,730.00	7,284.00	7,192.55	55.89	30.65	-57.22	1,263.37	3,004.50	2,897.00	2,817.24	79.75	36.326		
11,600.00	7,730.00	7,284.00	7,192.55	57.07	30.65	-57.22	1,263.37	3,004.50	2,991.98	2,911.95	80.03	37.387		
11,700.00	7,730.00	7,284.00	7,192.55	58.30	30.65	-57.22	1,263.37	3,004.50	3,087.28	3,006.99	80.29	38.454		
11,800.00	7,730.00	7,284.00	7,192.55	59.55	30.65	-57.22	1,263.37	3,004.50	3,182.87	3,102.34	80.53	39.525		
11,900.00	7,730.00	7,284.00	7,192.55	60.84	30.65	-57.22	1,263.37	3,004.50	3,278.72	3,197.97	80.75	40.601		
12,000.00	7,730.00	7,284.00	7,192.55	62.15	30.65	-57.22	1,263.37	3,004.50	3,374.81	3,293.84	80.97	41.681		
12,100.00	7,730.00	7,284.00	7,192.55	63.49	30.65	-57.22	1,263.37	3,004.50	3,471.13	3,389.96	81.17	42.764		
12,200.00	7,730.00	7,284.00	7,192.55	64.85	30.65	-57.22	1,263.37	3,004.50	3,567.64	3,486.28	81.36	43.851		
12,300.00	7,730.00	7,284.00	7,192.55	66.22	30.65	-57.22	1,263.37	3,004.50	3,664.35	3,582.81	81.54	44.941		
12,400.00	7,730.00	7,284.00	7,192.55	67.62	30.65	-57.22	1,263.37	3,004.50	3,761.22	3,679.51	81.71	46.033		
12,500.00	7,730.00	7,284.00	7,192.55	69.03	30.65	-57.22	1,263.37	3,004.50	3,858.26	3,776.39	81.87	47.127		
12,600.00	7,730.00	7,284.00	7,192.55	70.45	30.65	-57.22	1,263.37	3,004.50	3,955.44	3,873.42	82.02	48.224		
12,700.00	7,730.00	7,284.00	7,192.55	71.90	30.65	-57.22	1,263.37	3,004.50	4,052.76	3,970.59	82.17	49.323		
12,800.00	7,730.00	7,284.00	7,192.55	73.35	30.65	-57.22	1,263.37	3,004.50	4,150.21	4,067.90	82.31	50.423		
12,900.00	7,730.00	7,284.00	7,192.55	74.81	30.65	-57.22	1,263.37	3,004.50	4,247.77	4,165.33	82.44	51.525		
13,000.00	7,730.00	7,284.00	7,192.55	76.29	30.65	-57.22	1,263.37	3,004.50	4,345.45	4,262.88	82.57	52.629		
13,100.00	7,730.00	7,284.00	7,192.55	77.78	30.65	-57.22	1,263.37	3,004.50	4,443.23	4,360.54	82.69	53.734		
13,200.00	7,730.00	7,284.00	7,192.55	79.28	30.65	-57.22	1,263.37	3,004.50	4,541.11	4,458.30	82.81	54.839		
13,300.00	7,730.00	7,284.00	7,192.55	80.79	30.65	-57.22	1,263.37	3,004.50	4,639.07	4,556.15	82.92	55.946		
13,400.00	7,730.00	7,284.00	7,192.55	82.31	30.65	-57.22	1,263.37	3,004.50	4,737.12	4,654.10	83.03	57.054		
13,500.00	7,730.00	7,284.00	7,192.55	83.84	30.65	-57.22	1,263.37	3,004.50	4,835.26	4,752.12	83.13	58.162		
13,600.00	7,730.00	7,284.00	7,192.55	85.37	30.65	-57.22	1,263.37	3,004.50	4,933.46	4,850.23	83.24	59.271		
13,700.00	7,730.00	7,284.00	7,192.55	86.92	30.65	-57.22	1,263.37	3,004.50	5,031.74	4,948.41	83.33	60.381		
13,800.00	7,730.00	7,284.00	7,192.55	88.47	30.65	-57.22	1,263.37	3,004.50	5,130.08	5,046.66	83.43	61.491		
13,900.00	7,730.00	7,284.00	7,192.55	90.03	30.65	-57.22	1,263.37	3,004.50	5,228.49	5,144.97	83.52	62.601		
14,000.00	7,730.00	7,284.00	7,192.55	91.59	30.65	-57.22	1,263.37	3,004.50	5,326.96	5,243.35	83.61	63.712		
14,100.00	7,730.00	7,284.00	7,192.55	93.16	30.65	-57.22	1,263.37	3,004.50	5,425.48	5,341.78	83.70	64.823		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	30.65	-57.22	1,263.37	3,004.50	5,524.06	5,440.27	83.78	65.934		
14,300.00	7,730.00	7,284.00	7,192.55	96.33	30.65	-57.22	1,263.37	3,004.50	5,622.68	5,538.82	83.86	67.045		
14,400.00	7,730.00	7,284.00	7,192.55	97.92	30.65	-57.22	1,263.37	3,004.50	5,721.36	5,637.41	83.95	68.156		
14,500.00	7,730.00	7,284.00	7,192.55	99.51	30.65	-57.22	1,263.37	3,004.50	5,820.07	5,736.05	84.02	69.267		
14,600.00	7,730.00	7,284.00	7,192.55	101.11	30.65	-57.22	1,263.37	3,004.50	5,918.84	5,834.74	84.10	70.378		
14,700.00	7,730.00	7,284.00	7,192.55	102.72	30.65	-57.22	1,263.37	3,004.50	6,017.64	5,933.46	84.18	71.489		
14,800.00	7,730.00	7,284.00	7,192.55	104.33	30.65	-57.22	1,263.37	3,004.50	6,116.48	6,032.23	84.25	72.599		
14,900.00	7,730.00	7,284.00	7,192.55	105.94	30.65	-57.22	1,263.37	3,004.50	6,215.36	6,131.04	84.32	73.710		
15,000.00	7,730.00	7,284.00	7,192.55	107.56	30.65	-57.22	1,263.37	3,004.50	6,314.27	6,229.88	84.39	74.820		
15,100.00	7,730.00	7,284.00	7,192.55	109.18	30.65	-57.22	1,263.37	3,004.50	6,413.22	6,328.76	84.46	75.930		
15,200.00	7,730.00	7,241.37	7,150.23	110.81	30.55	-55.09	1,258.37	3,005.07	6,510.70	6,426.19	84.51	77.037		
15,300.00	7,730.00	7,240.59	7,149.45	112.44	30.55	-55.05	1,258.30	3,005.08	6,609.66	6,525.08	84.58	78.146		
15,400.00	7,730.00	7,239.83	7,148.69	114.08	30.54	-55.01	1,258.24	3,005.09	6,708.64	6,624.00	84.65	79.254		
15,500.00	7,730.00	7,239.09	7,147.96	115.72	30.54	-54.97	1,258.18	3,005.10	6,807.66	6,722.95	84.71	80.361		
15,600.00	7,730.00	7,238.37	7,147.24	117.36	30.54	-54.94	1,258.12	3,005.10	6,906.70	6,821.92	84.78	81.468		
15,700.00	7,730.00	7,237.67	7,146.54	119.00	30.54	-54.90	1,258.06	3,005.11	7,005.77	6,920.93	84.84	82.575		
15,800.00	7,730.00	7,236.99	7,145.86	120.65	30.54	-54.87	1,258.01	3,005.12	7,104.87	7,019.96	84.90	83.681		
15,900.00	7,730.00	7,236.33	7,145.20	122.30	30.54	-54.84	1,257.96	3,005.13	7,203.99	7,119.02	84.97	84.786		
16,000.00	7,730.00	7,235.68	7,144.56	123.96	30.53	-54.81	1,257.91	3,005.14	7,303.13	7,218.10	85.03	85.890		
16,100.00	7,730.00	7,235.05	7,143.93	125.61	30.53	-54.78	1,257.86	3,005.14	7,402.29	7,317.20	85.09	86.994		
16,200.00	7,730.00	7,234.43	7,143.31	127.27	30.53	-54.75	1,257.81	3,005.15	7,501.48	7,416.33	85.15	88.097		
16,300.00	7,730.00	7,233.83	7,142.71	128.94	30.53	-54.72	1,257.77	3,005.16	7,600.69	7,515.48	85.21	89.199		
16,400.00	7,730.00	7,233.24	7,142.13	130.60	30.53	-54.69	1,257.73	3,005.17	7,699.91	7,614.64	85.27	90.301		
16,500.00	7,730.00	7,232.67	7,141.56	132.27	30.53	-54.66	1,257.68	3,005.17	7,799.16	7,713.83	85.33	91.401		
16,600.00	7,730.00	7,232.11	7,141.00	133.94	30.53	-54.63	1,257.64	3,005.18	7,898.42	7,813.04	85.39	92.501		
16,700.00	7,730.00	7,189.00	7,097.93	135.61	30.42	-52.59	1,255.98	3,005.64	7,999.18	7,913.75	85.43	93.638		
16,800.00	7,730.00	7,189.00	7,097.93	137.28	30.42	-52.59	1,255.98	3,005.64	8,098.44	8,012.96	85.49	94.735		
16,900.00	7,730.00	7,189.00	7,097.93	138.96	30.42	-52.59	1,255.98	3,005.64	8,197.72	8,112.18	85.54	95.832		
17,000.00	7,730.00	7,189.00	7,097.93	140.64	30.42	-52.59	1,255.98	3,005.64	8,297.02	8,211.42	85.60	96.927		
17,100.00	7,730.00	7,189.00	7,097.93	142.32	30.42	-52.59	1,255.98	3,005.64	8,396.33	8,310.68	85.66	98.022		
17,200.00	7,730.00	7,189.00	7,097.93	144.00	30.42	-52.59	1,255.98	3,005.64	8,495.66	8,409.95	85.71	99.116		
17,300.00	7,730.00	7,189.00	7,097.93	145.69	30.42	-52.59	1,255.98	3,005.64	8,595.01	8,509.24	85.77	100.208		
17,400.00	7,730.00	7,189.00	7,097.93	147.37	30.42	-52.59	1,255.98	3,005.64	8,694.37	8,608.54	85.83	101.300		
17,500.00	7,730.00	7,189.00	7,097.93	149.06	30.42	-52.59	1,255.98	3,005.64	8,793.74	8,707.86	85.88	102.391		
17,600.00	7,730.00	7,189.00	7,097.93	150.75	30.42	-52.59	1,255.98	3,005.64	8,893.13	8,807.19	85.94	103.480		
17,700.00	7,730.00	7,189.00	7,097.93	152.44	30.42	-52.59	1,255.98	3,005.64	8,992.54	8,906.54	86.00	104.569		
17,800.00	7,730.00	7,189.00	7,097.93	154.13	30.42	-52.59	1,255.98	3,005.64	9,091.95	9,005.90	86.05	105.656		
17,900.00	7,730.00	7,189.00	7,097.93	155.83	30.42	-52.59	1,255.98	3,005.64	9,191.38	9,105.27	86.11	106.742		
18,000.00	7,730.00	7,189.00	7,097.93	157.52	30.42	-52.59	1,255.98	3,005.64	9,290.82	9,204.66	86.16	107.827		
18,100.00	7,730.00	7,189.00	7,097.93	159.22	30.42	-52.59	1,255.98	3,005.64	9,390.27	9,304.05	86.22	108.911		
18,200.00	7,730.00	7,189.00	7,097.93	160.92	30.42	-52.59	1,255.98	3,005.64	9,489.74	9,403.46	86.28	109.994		
18,300.00	7,730.00	7,189.00	7,097.93	162.62	30.42	-52.59	1,255.98	3,005.64	9,589.21	9,502.88	86.33	111.076		
18,400.00	7,730.00	7,189.00	7,097.93	164.32	30.42	-52.59	1,255.98	3,005.64	9,688.70	9,602.31	86.39	112.156		
18,426.22	7,730.00	7,189.00	7,097.93	164.76	30.42	-52.59	1,255.98	3,005.64	9,714.78	9,628.38	86.40	112.439		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	174.65	-4,018.46	376.38	4,036.08					
100.00	100.00	52.39	52.39	0.13	0.09	174.65	-4,018.65	376.62	4,036.38	4,036.16	0.22	N/A		
200.00	200.00	120.00	119.99	0.49	0.20	174.63	-4,019.43	377.62	4,037.63	4,036.95	0.69	5,877.919		
300.00	300.00	291.09	291.05	0.85	0.81	174.59	-4,020.79	380.45	4,038.76	4,037.10	1.66	2,438.251		
400.00	400.00	409.08	409.03	1.21	1.22	174.58	-4,020.11	381.48	4,038.25	4,035.82	2.43	1,660.549		
500.00	500.00	509.32	509.23	1.57	1.58	174.55	-4,019.34	383.66	4,037.69	4,034.54	3.15	1,282.272		
600.00	600.00	600.00	738.59	1.93	1.91	174.28	-4,012.44	401.99	4,035.49	4,031.66	3.83	1,054.035		
700.00	700.00	974.34	969.99	2.29	3.41	173.76	-3,995.46	437.19	4,029.47	4,023.78	5.68	709.189		
800.00	800.00	1,075.97	1,069.39	2.64	3.86	173.47	-3,986.02	456.09	4,022.17	4,015.68	6.49	619.569		
900.00	900.00	1,153.41	1,144.99	3.00	4.23	173.24	-3,979.11	471.37	4,015.42	4,008.21	7.21	557.041		
1,000.00	1,000.00	1,295.00	1,283.55	3.36	4.89	172.85	-3,966.16	497.48	4,008.45	4,000.23	8.22	487.599		
1,100.00	1,100.00	1,371.00	1,358.02	3.72	5.25	172.65	-3,959.16	510.94	4,001.39	3,992.45	8.93	447.985		
1,200.00	1,200.00	1,485.36	1,469.79	4.08	5.81	172.32	-3,948.56	532.66	3,994.56	3,984.73	9.84	406.123		
1,300.00	1,299.98	1,615.88	1,596.91	4.43	6.46	124.93	-3,935.13	559.05	3,987.94	3,977.10	10.83	368.083		
1,400.00	1,399.84	1,735.36	1,712.93	4.79	7.08	124.70	-3,922.04	584.36	3,982.90	3,971.11	11.79	337.799		
1,500.00	1,499.45	1,830.12	1,805.24	5.15	7.56	124.56	-3,911.55	603.07	3,979.63	3,967.00	12.62	315.292		
1,587.13	1,585.95	1,899.87	1,873.26	5.46	7.92	124.46	-3,904.07	616.56	3,978.66	3,965.37	13.29	299.398		
1,600.00	1,598.70	1,909.89	1,883.03	5.51	7.97	124.45	-3,903.02	618.54	3,978.68	3,965.30	13.39	297.224		
1,700.00	1,697.47	2,004.33	1,975.08	5.89	8.45	124.31	-3,893.25	637.24	3,980.14	3,965.91	14.23	279.663		
1,800.00	1,795.62	2,106.29	2,074.43	6.28	8.97	124.17	-3,882.64	657.58	3,983.54	3,968.41	15.13	263.238		
1,900.00	1,893.06	2,207.33	2,172.53	6.69	9.51	124.02	-3,871.88	679.24	3,988.87	3,972.81	16.06	248.376		
2,000.00	1,989.64	2,314.16	2,276.14	7.13	10.08	123.88	-3,860.34	702.59	3,996.05	3,979.01	17.04	234.474		
2,100.00	2,085.27	2,448.25	2,406.25	7.61	10.80	123.76	-3,845.11	731.19	4,004.52	3,986.34	18.18	220.215		
2,200.00	2,179.82	2,535.23	2,490.68	8.12	11.26	123.65	-3,834.99	749.45	4,014.65	3,995.54	19.11	210.036		
2,300.00	2,273.17	2,300.00	2,607.66	8.67	9.98	123.56	-3,821.07	776.01	4,026.99	4,008.62	18.36	219.283		
2,400.00	2,365.21	2,787.00	2,734.74	9.27	12.63	123.54	-3,804.34	803.09	4,039.64	4,018.18	21.47	188.174		
2,500.00	2,455.84	2,838.51	2,784.78	9.92	12.90	123.38	-3,798.04	813.54	4,054.98	4,032.67	22.31	181.765		
2,580.62	2,527.80	2,881.00	2,826.09	10.49	13.12	123.23	-3,793.42	822.36	4,069.74	4,046.73	23.02	176.825		
2,600.00	2,544.97	2,884.06	2,829.06	10.63	13.14	123.24	-3,793.11	823.00	4,073.55	4,050.39	23.15	175.951		
2,700.00	2,633.58	3,019.26	2,960.32	11.37	13.87	123.57	-3,778.26	851.79	4,092.65	4,068.16	24.49	167.104		
2,800.00	2,722.19	3,091.88	3,030.69	12.13	14.26	123.74	-3,770.13	867.79	4,111.80	4,086.28	25.52	161.101		
2,900.00	2,810.80	3,142.62	3,079.88	12.91	14.54	123.85	-3,764.94	879.10	4,131.95	4,105.51	26.45	156.233		
3,000.00	2,899.41	3,300.92	3,233.14	13.71	15.42	124.19	-3,748.51	915.11	4,152.11	4,124.13	27.98	148.398		
3,100.00	2,988.02	3,394.14	3,323.37	14.52	15.93	124.40	-3,738.12	936.12	4,171.50	4,142.34	29.16	143.047		
3,200.00	3,076.63	3,498.47	3,424.38	15.34	16.51	124.62	-3,726.55	959.51	4,191.01	4,160.60	30.41	137.822		
3,300.00	3,165.24	3,589.82	3,512.88	16.16	17.01	124.82	-3,716.23	979.68	4,210.33	4,178.74	31.59	133.296		
3,400.00	3,253.85	3,668.74	3,589.43	17.00	17.44	124.99	-3,707.71	996.85	4,230.15	4,197.45	32.69	129.383		
3,500.00	3,342.46	3,752.91	3,671.17	17.84	17.90	125.18	-3,698.86	1,014.92	4,250.28	4,216.45	33.83	125.637		
3,600.00	3,431.07	3,827.00	3,743.25	18.69	18.29	125.35	-3,691.51	1,030.41	4,270.98	4,236.08	34.90	122.360		
3,700.00	3,519.68	3,898.08	3,812.60	19.55	18.66	125.53	-3,684.92	1,044.51	4,292.28	4,256.33	35.95	119.400		
3,800.00	3,608.29	3,973.88	3,886.84	20.40	19.03	125.73	-3,678.33	1,058.35	4,314.10	4,277.10	37.00	116.596		
3,900.00	3,696.90	4,039.46	3,951.31	21.26	19.34	125.92	-3,673.05	1,069.12	4,336.51	4,298.52	37.98	114.174		
4,000.00	3,785.51	4,092.46	4,003.58	22.13	19.58	126.08	-3,669.32	1,077.03	4,359.85	4,320.97	38.88	112.130		
4,100.00	3,874.12	4,153.53	4,063.99	23.00	19.84	126.28	-3,665.66	1,085.21	4,384.16	4,344.36	39.80	110.154		
4,200.00	3,962.73	4,229.66	4,139.55	23.87	20.14	126.56	-3,661.70	1,093.60	4,409.21	4,368.44	40.76	108.163		
4,300.00	4,051.34	4,322.53	4,231.97	24.74	20.49	126.92	-3,656.96	1,101.21	4,434.35	4,392.59	41.76	106.174		
4,400.00	4,139.95	4,379.01	4,288.30	25.62	20.68	127.15	-3,654.47	1,104.60	4,460.20	4,417.61	42.59	104.716		
4,500.00	4,228.56	4,424.66	4,333.88	26.49	20.83	127.35	-3,652.87	1,106.72	4,487.07	4,443.70	43.36	103.483		
4,600.00	4,317.17	4,466.04	4,375.21	27.37	20.95	127.53	-3,651.90	1,108.20	4,515.13	4,471.04	44.10	102.393		
4,700.00	4,405.78	4,525.63	4,434.78	28.25	21.13	127.80	-3,651.16	1,109.71	4,544.33	4,499.45	44.88	101.245		
4,800.00	4,494.39	4,611.83	4,520.96	29.13	21.38	128.20	-3,650.32	1,111.32	4,574.04	4,528.28	45.76	99.955		
4,900.00	4,583.00	4,706.10	4,615.20	30.02	21.65	128.62	-3,649.32	1,113.13	4,603.90	4,557.24	46.66	98.660		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,792.10	4,701.19	30.90	21.90	129.00	-3,648.43	1,114.99	4,634.03	4,586.49	47.54	97.482		
5,100.00	4,760.22	4,884.73	4,793.78	31.79	22.18	129.41	-3,647.48	1,117.29	4,664.39	4,615.95	48.44	96.298		
5,200.00	4,848.83	4,982.51	4,891.52	32.67	22.48	129.82	-3,646.32	1,119.89	4,694.82	4,645.47	49.36	95.120		
5,300.00	4,937.44	5,072.43	4,981.41	33.56	22.75	130.20	-3,645.22	1,122.20	4,725.45	4,675.21	50.24	94.051		
5,400.00	5,026.05	5,177.77	5,086.70	34.45	23.07	130.65	-3,643.72	1,124.53	4,756.09	4,704.91	51.18	92.922		
5,500.00	5,114.66	5,270.79	5,179.71	35.34	23.34	131.04	-3,642.16	1,125.81	4,786.74	4,734.68	52.06	91.939		
5,600.00	5,203.27	5,348.16	5,257.06	36.23	23.57	131.38	-3,640.94	1,126.32	4,817.72	4,764.85	52.87	91.119		
5,700.00	5,291.88	5,414.73	5,323.63	37.12	23.76	131.67	-3,640.13	1,126.31	4,849.25	4,795.63	53.63	90.427		
5,800.00	5,380.50	5,481.53	5,390.43	38.01	23.94	131.96	-3,639.61	1,125.92	4,881.42	4,827.05	54.37	89.787		
5,900.00	5,469.11	5,556.57	5,465.47	38.90	24.14	132.28	-3,639.34	1,125.32	4,914.18	4,859.05	55.13	89.141		
6,000.00	5,557.72	5,648.19	5,557.07	39.79	24.38	132.68	-3,639.04	1,124.57	4,947.20	4,891.25	55.95	88.428		
6,100.00	5,646.33	5,739.64	5,648.53	40.68	24.62	133.07	-3,638.69	1,123.59	4,980.41	4,923.65	56.76	87.745		
6,200.00	5,734.94	5,833.27	5,742.14	41.58	24.87	133.47	-3,638.19	1,122.43	5,013.71	4,956.13	57.58	87.076		
6,300.00	5,823.55	5,915.85	5,824.71	42.47	25.09	133.82	-3,637.79	1,121.25	5,047.28	4,988.93	58.35	86.497		
6,400.00	5,912.16	6,018.60	5,927.45	43.36	25.37	134.25	-3,637.20	1,119.76	5,081.00	5,021.80	59.20	85.827		
6,500.00	6,000.77	6,127.43	6,036.27	44.26	25.68	134.69	-3,636.15	1,118.69	5,114.52	5,054.43	60.08	85.126		
6,600.00	6,089.38	6,221.80	6,130.64	45.15	25.95	135.06	-3,635.16	1,118.31	5,148.13	5,087.22	60.91	84.513		
6,700.00	6,177.99	6,336.15	6,244.97	46.05	26.29	135.50	-3,633.58	1,118.06	5,181.63	5,119.80	61.83	83.802		
6,800.00	6,266.60	6,435.27	6,344.07	46.94	26.59	135.89	-3,631.77	1,117.46	5,214.95	5,152.27	62.68	83.200		
6,900.00	6,355.21	6,522.93	6,431.71	47.84	26.84	136.23	-3,630.09	1,116.47	5,248.42	5,184.95	63.47	82.688		
7,000.00	6,443.82	6,612.70	6,521.46	48.74	27.11	136.57	-3,628.38	1,115.40	5,282.11	5,217.84	64.27	82.184		
7,100.00	6,532.43	6,683.71	6,592.46	49.63	27.32	136.84	-3,627.06	1,114.76	5,316.01	5,251.02	64.99	81.794		
7,200.00	6,621.04	6,729.29	6,638.03	50.53	27.45	137.01	-3,626.54	1,114.35	5,350.69	5,285.09	65.60	81.563		
7,300.00	6,709.65	6,799.66	6,708.39	51.42	27.65	137.27	-3,626.25	1,113.64	5,386.18	5,319.87	66.31	81.230		
7,400.00	6,798.26	6,894.79	6,803.52	52.32	27.93	137.62	-3,625.75	1,112.68	5,421.76	5,354.65	67.12	80.783		
7,500.00	6,886.87	6,989.93	6,898.66	53.22	28.21	137.96	-3,625.29	1,112.14	5,457.50	5,389.57	67.93	80.340		
7,600.00	6,975.48	7,077.12	6,985.84	54.12	28.48	138.27	-3,624.76	1,112.05	5,493.22	5,424.50	68.72	79.941		
7,656.30	7,025.36	7,115.68	7,024.40	54.62	28.59	138.40	-3,624.61	1,112.06	5,513.50	5,444.39	69.11	79.776		
7,700.00	7,064.54	7,156.32	7,065.05	55.00	28.72	131.16	-3,624.52	1,112.07	5,527.79	5,458.32	69.47	79.573		
7,750.00	7,110.29	7,222.47	7,131.19	55.40	28.93	121.16	-3,624.20	1,112.11	5,540.19	5,470.22	69.97	79.184		
7,800.00	7,156.67	7,269.40	7,178.13	55.75	29.07	109.31	-3,623.87	1,112.12	5,548.32	5,477.95	70.37	78.842		
7,850.00	7,203.34	7,314.75	7,223.47	56.05	29.21	96.46	-3,623.56	1,112.08	5,552.24	5,481.47	70.77	78.460		
7,900.00	7,249.95	7,366.65	7,275.37	56.30	29.37	83.95	-3,623.20	1,112.05	5,551.89	5,480.72	71.18	78.001		
7,950.00	7,296.14	7,419.61	7,328.33	56.50	29.54	72.97	-3,622.78	1,112.14	5,547.26	5,475.68	71.58	77.497		
8,000.00	7,341.56	7,460.08	7,368.79	56.64	29.67	63.98	-3,622.46	1,112.22	5,538.41	5,466.50	71.91	77.017		
8,050.00	7,385.86	7,500.03	7,408.74	56.74	29.79	56.99	-3,622.16	1,112.25	5,525.47	5,453.25	72.22	76.504		
8,100.00	7,428.71	7,544.54	7,453.25	56.79	29.93	51.74	-3,621.84	1,112.27	5,508.53	5,435.98	72.54	75.933		
8,150.00	7,469.77	7,589.46	7,498.17	56.80	30.07	47.87	-3,621.51	1,112.37	5,487.65	5,414.80	72.85	75.326		
8,200.00	7,508.75	7,635.80	7,544.51	56.77	30.22	45.14	-3,621.14	1,112.56	5,463.00	5,389.85	73.16	74.676		
8,250.00	7,545.33	7,681.38	7,590.09	56.70	30.37	43.34	-3,620.70	1,112.77	5,434.75	5,361.30	73.45	73.997		
8,300.00	7,579.25	7,714.27	7,622.98	56.59	30.47	42.28	-3,620.35	1,112.94	5,403.12	5,329.46	73.67	73.346		
8,350.00	7,610.24	7,738.28	7,646.98	56.45	30.55	41.91	-3,620.12	1,113.08	5,368.43	5,294.60	73.84	72.708		
8,400.00	7,638.06	7,759.87	7,668.57	56.28	30.62	42.28	-3,619.94	1,113.21	5,330.94	5,256.96	73.99	72.052		
8,450.00	7,662.52	7,778.87	7,687.57	56.09	30.68	43.47	-3,619.81	1,113.33	5,290.92	5,216.80	74.12	71.381		
8,500.00	7,683.41	7,795.25	7,703.95	55.88	30.73	45.67	-3,619.71	1,113.43	5,248.65	5,174.40	74.24	70.697		
8,550.00	7,700.59	7,810.07	7,718.77	55.64	30.78	49.24	-3,619.62	1,113.53	5,204.43	5,130.08	74.35	69.998		
8,600.00	7,713.91	7,821.53	7,730.23	55.39	30.81	54.75	-3,619.57	1,113.60	5,158.59	5,084.14	74.45	69.293		
8,650.00	7,723.29	7,829.55	7,738.25	55.14	30.84	63.27	-3,619.53	1,113.65	5,111.46	5,036.93	74.53	68.587		
8,700.00	7,728.64	7,834.05	7,742.75	54.87	30.85	76.38	-3,619.50	1,113.68	5,063.38	4,988.79	74.59	67.880		
8,740.83	7,730.00	7,835.08	7,743.78	54.65	30.86	91.55	-3,619.50	1,113.69	5,023.67	4,949.04	74.64	67.307		
8,800.00	7,730.00	7,834.84	7,743.54	54.33	30.86	91.54	-3,619.50	1,113.69	4,965.96	4,891.26	74.70	66.478		
8,900.00	7,730.00	7,834.43	7,743.13	53.82	30.85	91.52	-3,619.50	1,113.69	4,868.49	4,793.69	74.81	65.079		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,834.01	7,742.72	53.33	30.85	91.50	-3,619.51	1,113.68	4,771.14	4,696.21	74.92	63.679		
9,100.00	7,730.00	7,833.60	7,742.30	52.87	30.85	91.47	-3,619.51	1,113.68	4,673.89	4,598.84	75.05	62.278		
9,200.00	7,730.00	7,833.19	7,741.89	52.44	30.85	91.45	-3,619.51	1,113.68	4,576.76	4,501.58	75.18	60.877		
9,300.00	7,730.00	7,832.77	7,741.47	52.03	30.85	91.43	-3,619.51	1,113.68	4,479.76	4,404.44	75.32	59.476		
9,400.00	7,730.00	7,832.35	7,741.05	51.65	30.85	91.41	-3,619.51	1,113.67	4,382.89	4,307.42	75.47	58.075		
9,500.00	7,730.00	7,831.93	7,740.63	51.29	30.85	91.39	-3,619.51	1,113.67	4,286.17	4,210.54	75.63	56.674		
9,600.00	7,730.00	7,831.50	7,740.21	50.95	30.85	91.36	-3,619.52	1,113.67	4,189.60	4,113.80	75.80	55.272		
9,700.00	7,730.00	7,831.08	7,739.78	50.64	30.84	91.34	-3,619.52	1,113.66	4,093.19	4,017.21	75.98	53.872		
9,800.00	7,730.00	7,830.65	7,739.35	50.35	30.84	91.32	-3,619.52	1,113.66	3,996.96	3,920.79	76.17	52.471		
9,900.00	7,730.00	7,830.22	7,738.92	50.09	30.84	91.30	-3,619.52	1,113.66	3,900.92	3,824.54	76.38	51.071		
10,000.00	7,730.00	7,829.79	7,738.49	49.86	30.84	91.28	-3,619.52	1,113.66	3,805.09	3,728.48	76.60	49.672		
10,100.00	7,730.00	7,829.35	7,738.06	49.65	30.84	91.25	-3,619.53	1,113.65	3,709.47	3,632.63	76.84	48.274		
10,200.00	7,730.00	7,828.92	7,737.62	49.48	30.84	91.23	-3,619.53	1,113.65	3,614.09	3,537.00	77.10	46.877		
10,300.00	7,730.00	7,828.48	7,737.18	49.35	30.84	91.21	-3,619.53	1,113.65	3,518.97	3,441.60	77.37	45.482		
10,400.00	7,730.00	7,828.04	7,736.74	49.27	30.83	91.18	-3,619.53	1,113.64	3,424.13	3,346.47	77.66	44.089		
10,500.00	7,730.00	7,827.59	7,736.30	49.26	30.83	91.16	-3,619.54	1,113.64	3,329.59	3,251.61	77.98	42.698		
10,600.00	7,730.00	7,827.15	7,735.85	49.32	30.83	91.14	-3,619.54	1,113.64	3,235.37	3,157.06	78.32	41.310		
10,700.00	7,730.00	7,826.70	7,735.40	49.51	30.83	91.11	-3,619.54	1,113.64	3,141.52	3,062.83	78.68	39.925		
10,800.00	7,730.00	7,826.25	7,734.95	49.83	30.83	91.09	-3,619.54	1,113.63	3,048.05	2,968.97	79.08	38.544		
10,900.00	7,730.00	7,825.80	7,734.50	50.31	30.83	91.07	-3,619.54	1,113.63	2,955.02	2,875.51	79.51	37.168		
11,000.00	7,730.00	7,825.34	7,734.05	50.96	30.83	91.04	-3,619.55	1,113.63	2,862.45	2,782.48	79.97	35.796		
11,100.00	7,730.00	7,824.89	7,733.59	51.75	30.82	91.02	-3,619.55	1,113.62	2,770.40	2,689.93	80.46	34.430		
11,200.00	7,730.00	7,824.43	7,733.13	52.66	30.82	91.00	-3,619.55	1,113.62	2,678.91	2,597.91	81.00	33.072		
11,300.00	7,730.00	7,823.97	7,732.67	53.67	30.82	90.97	-3,619.55	1,113.62	2,588.06	2,506.47	81.59	31.721		
11,400.00	7,730.00	7,823.50	7,732.21	54.75	30.82	90.95	-3,619.56	1,113.62	2,497.91	2,415.69	82.22	30.379		
11,500.00	7,730.00	7,823.04	7,731.74	55.89	30.82	90.92	-3,619.56	1,113.61	2,408.54	2,325.62	82.92	29.048		
11,600.00	7,730.00	7,822.57	7,731.27	57.07	30.82	90.90	-3,619.56	1,113.61	2,320.03	2,236.36	83.67	27.730		
11,700.00	7,730.00	7,822.10	7,730.80	58.30	30.82	90.87	-3,619.56	1,113.61	2,232.49	2,148.01	84.48	26.425		
11,800.00	7,730.00	7,821.62	7,730.32	59.55	30.81	90.85	-3,619.56	1,113.60	2,146.04	2,060.67	85.37	25.137		
11,900.00	7,730.00	7,821.15	7,729.85	60.84	30.81	90.83	-3,619.57	1,113.60	2,060.82	1,974.48	86.34	23.868		
12,000.00	7,730.00	7,820.67	7,729.37	62.15	30.81	90.80	-3,619.57	1,113.60	1,976.99	1,889.59	87.40	22.620		
12,100.00	7,730.00	7,820.19	7,728.89	63.49	30.81	90.78	-3,619.57	1,113.59	1,894.72	1,806.17	88.55	21.398		
12,200.00	7,730.00	7,819.70	7,728.41	64.85	30.81	90.75	-3,619.57	1,113.59	1,814.23	1,724.44	89.80	20.204		
12,300.00	7,730.00	7,819.22	7,727.92	66.22	30.81	90.72	-3,619.58	1,113.59	1,735.78	1,644.63	91.15	19.043		
12,400.00	7,730.00	7,818.73	7,727.43	67.62	30.80	90.70	-3,619.58	1,113.58	1,659.64	1,567.03	92.61	17.921		
12,500.00	7,730.00	7,818.24	7,726.94	69.03	30.80	90.67	-3,619.58	1,113.58	1,586.16	1,491.98	94.18	16.842		
12,600.00	7,730.00	7,817.74	7,726.44	70.45	30.80	90.65	-3,619.58	1,113.58	1,515.71	1,419.85	95.86	15.812		
12,700.00	7,730.00	7,817.25	7,725.95	71.90	30.80	90.62	-3,619.59	1,113.58	1,448.74	1,351.11	97.63	14.839		
12,800.00	7,730.00	7,816.75	7,725.45	73.35	30.80	90.60	-3,619.59	1,113.57	1,385.76	1,286.27	99.49	13.929		
12,900.00	7,730.00	7,816.24	7,724.95	74.81	30.80	90.57	-3,619.59	1,113.57	1,327.34	1,225.94	101.40	13.091		
13,000.00	7,730.00	7,815.74	7,724.44	76.29	30.79	90.54	-3,619.59	1,113.57	1,274.09	1,170.77	103.32	12.332		
13,100.00	7,730.00	7,815.23	7,723.93	77.78	30.79	90.52	-3,619.60	1,113.56	1,226.69	1,121.50	105.20	11.661		
13,200.00	7,730.00	7,814.72	7,723.42	79.28	30.79	90.49	-3,619.60	1,113.56	1,185.86	1,078.90	106.96	11.087		
13,300.00	7,730.00	7,814.21	7,722.91	80.79	30.79	90.46	-3,619.60	1,113.56	1,152.27	1,043.74	108.53	10.617		
13,400.00	7,730.00	7,813.69	7,722.39	82.31	30.79	90.44	-3,619.61	1,113.55	1,126.59	1,016.77	109.82	10.258		
13,500.00	7,730.00	7,813.17	7,721.88	83.84	30.79	90.41	-3,619.61	1,113.55	1,109.36	998.62	110.74	10.017		
13,600.00	7,730.00	7,812.65	7,721.35	85.37	30.79	90.38	-3,619.61	1,113.55	1,100.98	989.75	111.23	9.898		
13,642.62	7,730.00	7,812.43	7,721.13	86.03	30.78	90.37	-3,619.61	1,113.54	1,100.16	988.86	111.30	9.885 CC, ES, SF		
13,700.00	7,730.00	7,812.13	7,720.83	86.92	30.78	90.36	-3,619.61	1,113.54	1,101.65	990.41	111.25	9.903		
13,800.00	7,730.00	7,811.60	7,720.30	88.47	30.78	90.33	-3,619.62	1,113.54	1,111.36	1,000.57	110.79	10.031		
13,900.00	7,730.00	7,811.07	7,719.77	90.03	30.78	90.30	-3,619.62	1,113.54	1,129.86	1,019.98	109.89	10.282		
14,000.00	7,730.00	7,810.54	7,719.24	91.59	30.78	90.27	-3,619.62	1,113.53	1,156.75	1,048.14	108.60	10.651		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,730.00	7,810.00	7,718.70	93.16	30.78	90.24	-3,619.62	1,113.53	1,191.45	1,084.42	107.03	11.132		
14,200.00	7,730.00	7,809.46	7,718.16	94.74	30.77	90.22	-3,619.63	1,113.52	1,233.29	1,128.05	105.24	11.719		
14,300.00	7,730.00	7,808.92	7,717.62	96.33	30.77	90.19	-3,619.63	1,113.52	1,281.60	1,178.26	103.33	12.403		
14,400.00	7,730.00	7,808.37	7,717.08	97.92	30.77	90.16	-3,619.63	1,113.52	1,335.65	1,234.27	101.38	13.175		
14,500.00	7,730.00	7,807.83	7,716.53	99.51	30.77	90.13	-3,619.64	1,113.51	1,394.79	1,295.36	99.43	14.028		
14,600.00	7,730.00	7,807.27	7,715.98	101.11	30.77	90.10	-3,619.64	1,113.51	1,458.39	1,360.85	97.54	14.952		
14,700.00	7,730.00	7,807.39	7,716.09	102.72	30.77	90.11	-3,619.64	1,113.51	1,525.90	1,430.16	95.73	15.939		
14,800.00	7,730.00	7,806.84	7,715.55	104.33	30.77	90.08	-3,619.64	1,113.51	1,596.82	1,502.79	94.03	16.982		
14,900.00	7,730.00	7,806.29	7,714.99	105.94	30.76	90.05	-3,619.65	1,113.51	1,670.72	1,578.28	92.44	18.074		
15,000.00	7,730.00	7,805.73	7,714.43	107.56	30.76	90.02	-3,619.65	1,113.50	1,747.22	1,656.26	90.96	19.209		
15,100.00	7,730.00	7,805.16	7,713.87	109.18	30.76	89.99	-3,619.65	1,113.50	1,825.99	1,736.39	89.60	20.379		
15,200.00	7,730.00	7,804.59	7,713.29	110.81	30.76	89.96	-3,619.66	1,113.49	1,906.75	1,818.40	88.35	21.581		
15,300.00	7,730.00	7,804.01	7,712.71	112.44	30.76	89.93	-3,619.66	1,113.49	1,989.27	1,902.05	87.21	22.810		
15,400.00	7,730.00	7,803.42	7,712.13	114.08	30.76	89.90	-3,619.66	1,113.49	2,073.32	1,987.15	86.17	24.061		
15,500.00	7,730.00	7,802.83	7,711.53	115.72	30.75	89.87	-3,619.66	1,113.48	2,158.73	2,073.51	85.22	25.332		
15,600.00	7,730.00	7,802.22	7,710.93	117.36	30.75	89.84	-3,619.67	1,113.48	2,245.34	2,160.99	84.35	26.618		
15,700.00	7,730.00	7,801.61	7,710.32	119.00	30.75	89.81	-3,619.67	1,113.47	2,333.03	2,249.47	83.57	27.919		
15,800.00	7,730.00	7,801.00	7,709.70	120.65	30.75	89.78	-3,619.67	1,113.47	2,421.67	2,338.83	82.85	29.230		
15,900.00	7,730.00	7,800.37	7,709.07	122.30	30.75	89.74	-3,619.68	1,113.47	2,511.17	2,428.97	82.20	30.551		
16,000.00	7,730.00	7,799.73	7,708.44	123.96	30.74	89.71	-3,619.68	1,113.46	2,601.43	2,519.83	81.60	31.880		
16,100.00	7,730.00	7,799.09	7,707.80	125.61	30.74	89.68	-3,619.68	1,113.46	2,692.38	2,611.32	81.06	33.215		
16,200.00	7,730.00	7,798.44	7,707.14	127.27	30.74	89.64	-3,619.69	1,113.45	2,783.95	2,703.38	80.57	34.555		
16,300.00	7,730.00	7,797.78	7,706.48	128.94	30.74	89.61	-3,619.69	1,113.45	2,876.08	2,795.96	80.12	35.899		
16,400.00	7,730.00	7,797.11	7,705.82	130.60	30.74	89.57	-3,619.70	1,113.44	2,968.72	2,889.01	79.71	37.246		
16,500.00	7,730.00	7,796.43	7,705.14	132.27	30.73	89.54	-3,619.70	1,113.44	3,061.82	2,982.49	79.33	38.595		
16,600.00	7,730.00	7,795.75	7,704.45	133.94	30.73	89.50	-3,619.70	1,113.44	3,155.34	3,076.35	78.99	39.946		
16,700.00	7,730.00	7,795.05	7,703.75	135.61	30.73	89.47	-3,619.71	1,113.43	3,249.25	3,170.57	78.68	41.298		
16,800.00	7,730.00	7,794.35	7,703.05	137.28	30.73	89.43	-3,619.71	1,113.43	3,343.52	3,265.12	78.39	42.650		
16,900.00	7,730.00	7,793.63	7,702.33	138.96	30.72	89.39	-3,619.72	1,113.42	3,438.10	3,359.97	78.13	44.003		
17,000.00	7,730.00	7,792.90	7,701.61	140.64	30.72	89.35	-3,619.72	1,113.42	3,532.99	3,455.09	77.90	45.355		
17,100.00	7,730.00	7,792.17	7,700.87	142.32	30.72	89.32	-3,619.72	1,113.41	3,628.15	3,550.47	77.68	46.706		
17,200.00	7,730.00	7,791.42	7,700.13	144.00	30.72	89.28	-3,619.73	1,113.41	3,723.56	3,646.08	77.48	48.057		
17,300.00	7,730.00	7,790.67	7,699.37	145.69	30.71	89.24	-3,619.73	1,113.40	3,819.21	3,741.91	77.30	49.407		
17,400.00	7,730.00	7,789.90	7,698.60	147.37	30.71	89.20	-3,619.74	1,113.40	3,915.08	3,837.94	77.14	50.755		
17,500.00	7,730.00	7,789.12	7,697.82	149.06	30.71	89.16	-3,619.74	1,113.39	4,011.14	3,934.16	76.99	52.102		
17,600.00	7,730.00	7,788.33	7,697.03	150.75	30.71	89.12	-3,619.75	1,113.39	4,107.40	4,030.55	76.85	53.447		
17,700.00	7,730.00	7,787.53	7,696.23	152.44	30.70	89.07	-3,619.75	1,113.38	4,203.83	4,127.10	76.73	54.791		
17,800.00	7,730.00	7,786.72	7,695.42	154.13	30.70	89.03	-3,619.76	1,113.38	4,300.42	4,223.81	76.61	56.132		
17,900.00	7,730.00	7,785.89	7,694.59	155.83	30.70	88.99	-3,619.76	1,113.37	4,397.17	4,320.66	76.51	57.472		
18,000.00	7,730.00	7,785.05	7,693.76	157.52	30.70	88.95	-3,619.77	1,113.37	4,494.05	4,417.64	76.42	58.809		
18,100.00	7,730.00	7,784.20	7,692.91	159.22	30.69	88.90	-3,619.77	1,113.36	4,591.07	4,514.74	76.33	60.144		
18,200.00	7,730.00	7,783.34	7,692.04	160.92	30.69	88.86	-3,619.78	1,113.35	4,688.22	4,611.96	76.26	61.477		
18,300.00	7,730.00	7,782.46	7,691.17	162.62	30.69	88.81	-3,619.78	1,113.35	4,785.48	4,709.29	76.19	62.808		
18,400.00	7,730.00	7,781.57	7,690.28	164.32	30.69	88.76	-3,619.79	1,113.34	4,882.86	4,806.72	76.13	64.136		
18,426.22	7,730.00	7,781.34	7,690.04	164.76	30.69	88.75	-3,619.79	1,113.34	4,908.41	4,832.29	76.12	64.484		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	174.66	-4,029.39	376.38	4,046.96					
100.00	100.00	96.38	96.37	0.13	0.16	174.66	-4,029.23	376.60	4,046.81	4,046.52	0.29	N/A		
200.00	200.00	245.49	245.46	0.49	0.69	174.63	-4,027.68	378.58	4,045.90	4,044.71	1.19	3,405.800		
300.00	300.00	305.00	304.94	0.85	0.91	174.61	-4,026.48	380.08	4,044.44	4,042.68	1.76	2,299.026		
320.94	320.94	305.00	304.94	0.93	0.91	174.61	-4,026.48	380.08	4,044.38	4,042.55	1.83	2,204.703		
400.00	400.00	305.00	304.94	1.21	0.91	174.61	-4,026.48	380.08	4,045.16	4,043.03	2.12	1,907.597		
430.22	430.22	386.34	386.22	1.32	1.21	174.56	-4,025.66	383.07	4,043.95	4,041.42	2.52	1,603.018		
500.00	500.00	416.14	415.99	1.57	1.31	174.54	-4,025.88	384.50	4,044.77	4,041.89	2.88	1,403.538		
600.00	600.00	458.80	458.58	1.93	1.47	174.51	-4,026.68	386.85	4,047.17	4,043.77	3.40	1,191.594		
700.00	700.00	501.40	501.06	2.29	1.63	174.48	-4,028.05	389.56	4,050.97	4,047.06	3.91	1,036.018		
800.00	800.00	543.90	543.41	2.64	1.78	174.44	-4,029.97	392.62	4,056.20	4,051.77	4.42	917.243		
900.00	900.00	639.00	637.94	3.00	2.13	174.33	-4,036.33	400.77	4,063.64	4,058.52	5.12	793.378		
1,000.00	1,000.00	639.00	637.94	3.36	2.13	174.33	-4,036.33	400.77	4,070.92	4,065.44	5.48	743.338		
1,100.00	1,100.00	673.94	672.59	3.72	2.27	174.29	-4,039.36	404.14	4,080.32	4,074.35	5.96	684.432		
1,200.00	1,200.00	731.00	729.08	4.08	2.50	174.21	-4,044.99	409.85	4,091.08	4,084.55	6.53	626.832		
1,300.00	1,299.98	731.00	729.08	4.43	2.50	126.88	-4,044.99	409.85	4,104.44	4,097.57	6.87	597.542		
1,400.00	1,399.84	792.82	790.07	4.79	2.75	126.55	-4,052.37	416.67	4,120.94	4,113.48	7.45	552.880		
1,500.00	1,499.45	825.00	821.70	5.15	2.89	126.20	-4,056.83	420.61	4,141.25	4,133.33	7.92	522.947		
1,600.00	1,598.70	864.64	860.53	5.51	3.07	125.80	-4,062.87	425.78	4,165.01	4,156.59	8.42	494.525		
1,700.00	1,697.47	920.00	914.53	5.89	3.32	125.35	-4,072.26	433.57	4,192.25	4,183.25	8.99	466.087		
1,800.00	1,795.62	920.00	914.53	6.28	3.32	124.82	-4,072.26	433.57	4,222.65	4,213.32	9.34	452.278		
1,900.00	1,893.06	972.34	965.33	6.69	3.58	124.28	-4,082.19	441.32	4,256.20	4,246.28	9.92	429.116		
2,000.00	1,989.64	1,014.00	1,005.60	7.13	3.78	123.68	-4,090.83	447.62	4,292.98	4,282.52	10.46	410.259		
2,100.00	2,085.27	1,050.23	1,040.50	7.61	3.98	123.02	-4,098.77	453.19	4,332.70	4,321.70	11.01	393.688		
2,200.00	2,179.82	1,108.00	1,096.00	8.12	4.28	122.35	-4,112.02	462.25	4,375.18	4,363.52	11.66	375.087		
2,300.00	2,273.17	1,179.71	1,164.85	8.67	4.67	121.70	-4,128.89	473.12	4,419.93	4,407.51	12.42	355.958		
2,400.00	2,365.21	1,314.13	1,294.33	9.27	5.41	121.25	-4,159.05	492.89	4,465.16	4,451.65	13.51	330.522		
2,500.00	2,455.84	1,369.00	1,347.05	9.92	5.72	120.51	-4,171.57	501.57	4,512.73	4,498.48	14.25	316.775		
2,580.62	2,527.80	1,460.40	1,434.70	10.49	6.25	120.07	-4,192.41	516.90	4,552.43	4,537.31	15.11	301.220		
2,600.00	2,544.97	1,477.31	1,450.93	10.63	6.35	120.13	-4,196.18	519.83	4,562.01	4,546.71	15.30	298.169		
2,700.00	2,633.58	1,555.59	1,526.00	11.37	6.81	120.42	-4,213.68	533.45	4,611.60	4,595.38	16.22	284.286		
2,800.00	2,722.19	1,620.50	1,588.18	12.13	7.20	120.66	-4,228.34	544.92	4,661.52	4,644.43	17.09	272.775		
2,900.00	2,810.80	1,692.22	1,656.79	12.91	7.63	120.91	-4,244.78	557.84	4,711.86	4,693.85	18.01	261.670		
3,000.00	2,899.41	1,810.05	1,769.54	13.71	8.34	121.32	-4,271.70	578.99	4,762.30	4,743.10	19.20	248.048		
3,100.00	2,988.02	1,896.83	1,852.64	14.52	8.87	121.61	-4,290.84	595.03	4,812.11	4,791.89	20.23	237.903		
3,200.00	3,076.63	1,983.54	1,935.83	15.34	9.39	121.91	-4,310.27	609.87	4,862.25	4,840.99	21.26	228.725		
3,300.00	3,165.24	2,085.93	2,034.23	16.16	10.00	122.26	-4,332.84	626.99	4,912.12	4,889.74	22.38	219.460		
3,400.00	3,253.85	2,147.64	2,093.50	17.00	10.37	122.46	-4,346.37	637.54	4,962.07	4,938.79	23.28	213.146		
3,500.00	3,342.46	2,186.85	2,131.06	17.84	10.61	122.59	-4,355.29	644.47	5,012.78	4,988.73	24.05	208.456		
3,600.00	3,431.07	2,239.30	2,181.12	18.69	10.93	122.75	-4,367.66	654.00	5,064.29	5,039.40	24.89	203.443		
3,700.00	3,519.68	2,349.01	2,286.01	19.55	11.61	123.09	-4,393.41	673.32	5,115.79	5,089.70	26.09	196.060		
3,800.00	3,608.29	3,800.00	2,407.78	20.40	20.49	123.47	-4,422.36	695.87	5,166.75	5,132.91	33.84	152.701		
3,900.00	3,696.90	2,550.05	2,478.57	21.26	12.85	123.69	-4,438.80	708.97	5,217.41	5,189.01	28.39	183.759		
4,000.00	3,785.51	2,595.00	2,521.54	22.13	13.12	123.81	-4,449.12	717.25	5,268.73	5,239.53	29.20	180.447		
4,100.00	3,874.12	2,759.93	2,679.39	23.00	14.14	124.27	-4,486.22	747.40	5,319.67	5,288.90	30.77	172.866		
4,200.00	3,962.73	2,857.31	2,772.85	23.87	14.73	124.54	-4,507.31	764.84	5,369.99	5,338.07	31.92	168.258		
4,300.00	4,051.34	2,919.31	2,832.38	24.74	15.11	124.71	-4,520.78	775.66	5,420.45	5,387.62	32.83	165.103		
4,400.00	4,139.95	2,975.13	2,885.91	25.62	15.45	124.86	-4,533.21	785.46	5,471.43	5,437.72	33.70	162.337		
4,500.00	4,228.56	3,074.93	2,981.61	26.49	16.06	125.12	-4,555.53	802.89	5,522.55	5,487.69	34.86	158.407		
4,600.00	4,317.17	3,136.05	3,040.19	27.37	16.44	125.28	-4,569.26	813.64	5,573.81	5,538.04	35.77	155.822		
4,700.00	4,405.78	3,210.34	3,111.32	28.25	16.90	125.47	-4,586.14	826.86	5,625.38	5,588.62	36.76	153.010		
4,800.00	4,494.39	3,341.37	3,236.83	29.13	17.70	125.80	-4,615.66	850.18	5,676.91	5,638.77	38.14	148.842		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,583.00	3,423.22	3,315.30	30.02	18.21	125.99	-4,633.60	865.03	5,727.90	5,688.71	39.19	146.153		
5,000.00	4,671.61	3,496.50	3,385.46	30.90	18.66	126.16	-4,649.78	878.67	5,779.09	5,738.91	40.19	143.811		
5,100.00	4,760.22	3,562.23	3,448.38	31.79	19.07	126.31	-4,664.43	890.77	5,830.52	5,789.39	41.13	141.770		
5,200.00	4,848.83	3,616.28	3,500.10	32.67	19.41	126.44	-4,676.72	900.56	5,882.37	5,840.38	41.98	140.114		
5,300.00	4,937.44	3,786.19	3,662.90	33.56	20.45	126.82	-4,714.92	930.65	5,934.23	5,890.59	43.64	135.992		
5,400.00	5,026.05	3,865.88	3,739.53	34.45	20.93	127.01	-4,731.93	944.40	5,985.00	5,940.33	44.66	133.998		
5,500.00	5,114.66	3,919.00	3,790.53	35.34	21.25	127.13	-4,743.61	953.57	6,036.33	5,990.82	45.51	132.644		
5,600.00	5,203.27	3,952.84	3,822.98	36.23	21.46	127.20	-4,751.27	959.32	6,088.25	6,042.04	46.21	131.750		
5,700.00	5,291.88	3,992.03	3,860.55	37.12	21.70	127.29	-4,760.40	965.76	6,140.83	6,093.88	46.94	130.811		
5,800.00	5,380.50	5,544.32	5,387.02	38.01	28.28	131.61	-4,932.79	1,105.21	6,174.38	6,119.04	55.33	111.587		
5,900.00	5,469.11	5,634.74	5,477.44	38.90	28.50	131.91	-4,932.48	1,105.82	6,206.90	6,150.66	56.25	110.354		
6,000.00	5,557.72	5,732.65	5,575.34	39.79	28.73	132.23	-4,932.04	1,106.48	6,239.50	6,182.32	57.18	109.126		
6,100.00	5,646.33	5,823.22	5,665.91	40.68	28.95	132.53	-4,931.58	1,107.12	6,272.21	6,214.12	58.08	107.986		
6,200.00	5,734.94	5,926.89	5,769.57	41.58	29.20	132.86	-4,930.91	1,107.72	6,304.95	6,245.93	59.02	106.822		
6,300.00	5,823.55	6,031.77	5,874.45	42.47	29.45	133.20	-4,929.95	1,108.17	6,337.63	6,277.67	59.96	105.700		
6,400.00	5,912.16	6,133.82	5,976.50	43.36	29.69	133.53	-4,928.79	1,108.59	6,370.27	6,309.39	60.88	104.634		
6,500.00	6,000.77	6,229.54	6,072.20	44.26	29.91	133.83	-4,927.53	1,108.96	6,402.90	6,341.12	61.78	103.637		
6,600.00	6,089.38	6,338.48	6,181.13	45.15	30.17	134.17	-4,925.99	1,109.42	6,435.61	6,372.89	62.72	102.608		
6,700.00	6,177.99	6,462.94	6,305.57	46.05	30.46	134.55	-4,923.59	1,110.09	6,467.99	6,404.29	63.70	101.535		
6,800.00	6,266.60	6,522.38	6,364.99	46.94	30.61	134.73	-4,922.41	1,110.49	6,500.48	6,435.99	64.49	100.798		
6,900.00	6,355.21	6,582.21	6,424.81	47.84	30.76	134.91	-4,921.57	1,111.14	6,533.56	6,468.29	65.28	100.091		
7,000.00	6,443.82	6,654.52	6,497.11	48.74	30.95	135.12	-4,920.79	1,112.03	6,567.09	6,500.98	66.10	99.347		
7,100.00	6,532.43	6,734.76	6,577.34	49.63	31.16	135.36	-4,920.10	1,113.08	6,600.92	6,533.97	66.95	98.589		
7,200.00	6,621.04	6,838.57	6,681.14	50.53	31.44	135.65	-4,919.21	1,114.61	6,634.89	6,567.00	67.88	97.737		
7,300.00	6,709.65	6,959.15	6,801.69	51.42	31.76	135.99	-4,917.69	1,116.60	6,668.58	6,599.71	68.87	96.831		
7,400.00	6,798.26	7,033.40	6,875.93	52.32	31.95	136.21	-4,916.62	1,117.15	6,702.35	6,632.67	69.68	96.183		
7,500.00	6,886.87	7,170.44	7,012.95	53.22	32.28	136.61	-4,914.21	1,117.14	6,736.04	6,665.36	70.68	95.298		
7,600.00	6,975.48	7,314.84	7,157.31	54.12	32.63	137.03	-4,910.51	1,116.61	6,769.22	6,697.52	71.70	94.415		
7,656.30	7,025.36	7,356.81	7,199.25	54.62	32.74	137.15	-4,909.25	1,116.31	6,787.75	6,715.61	72.14	94.087		
7,700.00	7,064.54	7,387.96	7,230.39	55.00	32.81	129.92	-4,908.36	1,116.08	6,800.66	6,728.17	72.49	93.820		
7,750.00	7,110.29	7,414.00	7,256.42	55.40	32.87	119.81	-4,907.65	1,115.89	6,811.61	6,738.76	72.85	93.501		
7,800.00	7,156.67	7,441.96	7,284.37	55.75	32.94	107.91	-4,906.97	1,115.70	6,818.47	6,745.25	73.22	93.122		
7,850.00	7,203.34	7,463.94	7,306.34	56.05	33.00	94.98	-4,906.53	1,115.60	6,821.25	6,747.69	73.57	92.724		
7,900.00	7,249.95	7,485.88	7,328.28	56.30	33.05	82.37	-4,906.17	1,115.53	6,819.93	6,746.03	73.90	92.288		
7,950.00	7,296.14	7,508.00	7,350.40	56.50	33.11	71.24	-4,905.90	1,115.49	6,814.50	6,740.28	74.22	91.819		
8,000.00	7,341.56	7,568.13	7,410.52	56.64	33.26	62.27	-4,905.21	1,115.53	6,804.89	6,730.24	74.65	91.158		
8,050.00	7,385.86	7,621.88	7,464.27	56.74	33.41	55.27	-4,904.52	1,115.74	6,791.03	6,715.99	75.05	90.492		
8,100.00	7,428.71	7,666.40	7,508.78	56.79	33.53	49.94	-4,903.94	1,116.08	6,773.11	6,697.72	75.40	89.833		
8,150.00	7,469.77	7,722.94	7,565.32	56.80	33.68	46.02	-4,903.19	1,116.74	6,751.27	6,675.49	75.78	89.095		
8,200.00	7,508.75	7,805.81	7,648.17	56.77	33.91	43.32	-4,901.73	1,118.07	6,725.49	6,649.26	76.23	88.221		
8,250.00	7,545.33	7,843.27	7,685.61	56.70	34.01	41.35	-4,900.98	1,118.77	6,696.08	6,619.56	76.52	87.508		
8,300.00	7,579.25	7,884.10	7,726.42	56.59	34.13	40.20	-4,900.12	1,119.57	6,663.32	6,586.52	76.80	86.759		
8,350.00	7,610.24	7,902.92	7,745.24	56.45	34.18	39.65	-4,899.73	1,119.93	6,627.52	6,550.53	76.99	86.079		
8,400.00	7,638.06	7,919.36	7,761.67	56.28	34.22	39.81	-4,899.40	1,120.20	6,588.98	6,511.81	77.16	85.389		
8,450.00	7,662.52	7,933.75	7,776.06	56.09	34.26	40.78	-4,899.14	1,120.40	6,547.97	6,470.65	77.32	84.690		
8,500.00	7,683.41	7,945.99	7,788.29	55.88	34.30	42.73	-4,898.93	1,120.55	6,504.78	6,427.33	77.45	83.984		
8,550.00	7,700.59	7,955.98	7,798.28	55.64	34.32	46.07	-4,898.76	1,120.66	6,459.73	6,382.16	77.57	83.275		
8,600.00	7,713.91	7,963.64	7,805.93	55.39	34.35	51.55	-4,898.64	1,120.72	6,413.13	6,335.46	77.68	82.563		
8,650.00	7,723.29	7,979.00	7,821.30	55.14	34.39	60.93	-4,898.41	1,120.84	6,365.35	6,287.55	77.80	81.814		
8,700.00	7,728.64	7,979.00	7,821.30	54.87	34.39	76.32	-4,898.41	1,120.84	6,316.70	6,238.82	77.87	81.117		
8,740.83	7,730.00	7,979.00	7,821.30	54.65	34.39	95.63	-4,898.41	1,120.84	6,276.59	6,198.66	77.93	80.546		
8,800.00	7,730.00	7,979.00	7,821.30	54.33	34.39	95.63	-4,898.41	1,120.84	6,218.33	6,140.33	78.00	79.719		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	7,979.00	7,821.30	53.82	34.39	95.63	-4,898.41	1,120.84	6,119.92	6,041.78	78.14	78.321		
9,000.00	7,730.00	7,979.00	7,821.30	53.33	34.39	95.63	-4,898.41	1,120.84	6,021.55	5,943.27	78.28	76.921		
9,100.00	7,730.00	7,979.00	7,821.30	52.87	34.39	95.63	-4,898.41	1,120.84	5,923.24	5,844.81	78.43	75.522		
9,200.00	7,730.00	7,979.00	7,821.30	52.44	34.39	95.63	-4,898.41	1,120.84	5,824.99	5,746.40	78.59	74.121		
9,300.00	7,730.00	7,966.90	7,809.20	52.03	34.36	95.00	-4,898.59	1,120.75	5,726.78	5,648.08	78.70	72.764		
9,400.00	7,730.00	7,965.93	7,808.23	51.65	34.35	94.95	-4,898.60	1,120.74	5,628.65	5,549.78	78.87	71.366		
9,500.00	7,730.00	7,964.95	7,807.25	51.29	34.35	94.90	-4,898.62	1,120.74	5,530.59	5,451.54	79.05	69.967		
9,600.00	7,730.00	7,963.96	7,806.26	50.95	34.35	94.84	-4,898.63	1,120.73	5,432.59	5,353.36	79.23	68.568		
9,700.00	7,730.00	7,962.96	7,805.26	50.64	34.34	94.79	-4,898.65	1,120.72	5,334.67	5,255.25	79.42	67.168		
9,800.00	7,730.00	7,961.95	7,804.25	50.35	34.34	94.74	-4,898.67	1,120.71	5,236.83	5,157.21	79.63	65.769		
9,900.00	7,730.00	7,960.93	7,803.23	50.09	34.34	94.69	-4,898.68	1,120.70	5,139.07	5,059.24	79.84	64.369		
10,000.00	7,730.00	7,959.90	7,802.20	49.86	34.34	94.63	-4,898.70	1,120.69	5,041.40	4,961.34	80.06	62.969		
10,100.00	7,730.00	7,958.86	7,801.16	49.65	34.33	94.58	-4,898.71	1,120.68	4,943.83	4,863.53	80.30	61.570		
10,200.00	7,730.00	7,957.81	7,800.11	49.48	34.33	94.52	-4,898.73	1,120.67	4,846.35	4,765.80	80.54	60.171		
10,300.00	7,730.00	7,956.75	7,799.05	49.35	34.33	94.47	-4,898.75	1,120.66	4,748.97	4,668.17	80.80	58.772		
10,400.00	7,730.00	7,955.68	7,797.98	49.27	34.32	94.41	-4,898.77	1,120.65	4,651.71	4,570.63	81.08	57.374		
10,500.00	7,730.00	7,954.59	7,796.89	49.26	34.32	94.35	-4,898.78	1,120.64	4,554.56	4,473.20	81.37	55.976		
10,600.00	7,730.00	7,953.50	7,795.80	49.32	34.32	94.30	-4,898.80	1,120.63	4,457.54	4,375.87	81.67	54.580		
10,700.00	7,730.00	7,952.39	7,794.70	49.51	34.32	94.24	-4,898.82	1,120.62	4,360.66	4,278.67	81.99	53.185		
10,800.00	7,730.00	7,951.28	7,793.58	49.83	34.31	94.18	-4,898.84	1,120.61	4,263.91	4,181.58	82.33	51.790		
10,900.00	7,730.00	7,950.15	7,792.45	50.31	34.31	94.12	-4,898.86	1,120.60	4,167.33	4,084.64	82.69	50.398		
11,000.00	7,730.00	7,949.01	7,791.31	50.96	34.31	94.06	-4,898.88	1,120.58	4,070.90	3,987.83	83.07	49.007		
11,100.00	7,730.00	7,947.86	7,790.16	51.75	34.30	94.00	-4,898.89	1,120.57	3,974.65	3,891.18	83.47	47.618		
11,200.00	7,730.00	7,946.70	7,789.00	52.66	34.30	93.94	-4,898.91	1,120.56	3,878.59	3,794.70	83.89	46.232		
11,300.00	7,730.00	7,945.52	7,787.82	53.67	34.30	93.88	-4,898.93	1,120.55	3,782.74	3,698.39	84.35	44.848		
11,400.00	7,730.00	7,944.33	7,786.63	54.75	34.29	93.82	-4,898.95	1,120.53	3,687.10	3,602.28	84.82	43.468		
11,500.00	7,730.00	7,943.13	7,785.43	55.89	34.29	93.75	-4,898.97	1,120.52	3,591.70	3,506.37	85.33	42.091		
11,600.00	7,730.00	7,941.92	7,784.22	57.07	34.29	93.69	-4,899.00	1,120.51	3,496.56	3,410.69	85.87	40.717		
11,700.00	7,730.00	7,940.69	7,782.99	58.30	34.28	93.63	-4,899.02	1,120.49	3,401.70	3,315.25	86.45	39.349		
11,800.00	7,730.00	7,939.45	7,781.75	59.55	34.28	93.56	-4,899.04	1,120.48	3,307.14	3,220.07	87.06	37.985		
11,900.00	7,730.00	7,938.20	7,780.50	60.84	34.28	93.49	-4,899.06	1,120.46	3,212.90	3,125.18	87.72	36.627		
12,000.00	7,730.00	7,936.93	7,779.23	62.15	34.27	93.43	-4,899.08	1,120.44	3,119.03	3,030.61	88.42	35.275		
12,100.00	7,730.00	7,935.65	7,777.95	63.49	34.27	93.36	-4,899.11	1,120.43	3,025.54	2,936.37	89.17	33.930		
12,200.00	7,730.00	7,934.35	7,776.66	64.85	34.27	93.29	-4,899.13	1,120.41	2,932.49	2,842.52	89.97	32.594		
12,300.00	7,730.00	7,933.04	7,775.35	66.22	34.26	93.22	-4,899.15	1,120.39	2,839.91	2,749.08	90.83	31.266		
12,400.00	7,730.00	7,931.72	7,774.02	67.62	34.26	93.15	-4,899.18	1,120.38	2,747.84	2,656.09	91.75	29.949		
12,500.00	7,730.00	7,930.38	7,772.68	69.03	34.25	93.08	-4,899.20	1,120.36	2,656.35	2,563.61	92.74	28.642		
12,600.00	7,730.00	7,929.02	7,771.33	70.45	34.25	93.01	-4,899.22	1,120.34	2,565.50	2,471.69	93.81	27.349		
12,700.00	7,730.00	7,927.65	7,769.96	71.90	34.25	92.94	-4,899.25	1,120.32	2,475.34	2,380.39	94.95	26.069		
12,800.00	7,730.00	7,926.26	7,768.57	73.35	34.24	92.87	-4,899.28	1,120.30	2,385.98	2,289.79	96.19	24.806		
12,900.00	7,730.00	7,924.86	7,767.17	74.81	34.24	92.80	-4,899.30	1,120.28	2,297.48	2,199.97	97.52	23.560		
13,000.00	7,730.00	7,923.44	7,765.75	76.29	34.24	92.72	-4,899.33	1,120.26	2,209.97	2,111.02	98.95	22.335		
13,100.00	7,730.00	7,922.01	7,764.32	77.78	34.23	92.65	-4,899.35	1,120.24	2,123.56	2,023.07	100.49	21.132		
13,200.00	7,730.00	7,920.56	7,762.87	79.28	34.23	92.57	-4,899.38	1,120.22	2,038.39	1,936.23	102.16	19.954		
13,300.00	7,730.00	7,919.09	7,761.40	80.79	34.22	92.49	-4,899.41	1,120.20	1,954.63	1,850.68	103.95	18.804		
13,400.00	7,730.00	7,917.60	7,759.91	82.31	34.22	92.41	-4,899.44	1,120.17	1,872.45	1,766.58	105.88	17.685		
13,500.00	7,730.00	7,916.10	7,758.41	83.84	34.22	92.33	-4,899.47	1,120.15	1,792.09	1,684.15	107.94	16.602		
13,600.00	7,730.00	7,914.58	7,756.89	85.37	34.21	92.25	-4,899.50	1,120.13	1,713.80	1,603.65	110.15	15.558		
13,700.00	7,730.00	7,913.04	7,755.35	86.92	34.21	92.17	-4,899.53	1,120.10	1,637.87	1,525.36	112.51	14.558		
13,800.00	7,730.00	7,911.48	7,753.79	88.47	34.20	92.09	-4,899.56	1,120.08	1,564.64	1,449.65	114.99	13.606		
13,900.00	7,730.00	7,909.90	7,752.21	90.03	34.20	92.01	-4,899.59	1,120.05	1,494.52	1,376.92	117.60	12.708		
14,000.00	7,730.00	7,908.30	7,750.61	91.59	34.19	91.93	-4,899.62	1,120.02	1,427.96	1,307.66	120.30	11.870		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,906.68	7,749.00	93.16	34.19	91.84	-4,899.65	1,120.00	1,365.49	1,242.44	123.05	11.097		
14,200.00	7,730.00	7,905.05	7,747.36	94.74	34.18	91.75	-4,899.68	1,119.97	1,307.68	1,181.89	125.79	10.396		
14,300.00	7,730.00	7,903.39	7,745.70	96.33	34.18	91.67	-4,899.72	1,119.94	1,255.19	1,126.75	128.43	9.773		
14,400.00	7,730.00	7,901.71	7,744.02	97.92	34.18	91.58	-4,899.75	1,119.91	1,208.70	1,077.81	130.88	9.235		
14,500.00	7,730.00	7,900.01	7,742.32	99.51	34.17	91.49	-4,899.79	1,119.88	1,168.93	1,035.92	133.02	8.788		
14,600.00	7,730.00	7,898.29	7,740.60	101.11	34.17	91.40	-4,899.82	1,119.85	1,136.59	1,001.90	134.70	8.438		
14,700.00	7,730.00	7,896.54	7,738.86	102.72	34.16	91.31	-4,899.86	1,119.82	1,112.33	976.54	135.79	8.191		
14,800.00	7,730.00	7,894.77	7,737.09	104.33	34.16	91.21	-4,899.89	1,119.78	1,096.68	960.48	136.20	8.052		
14,900.00	7,730.00	7,894.63	7,736.95	105.94	34.16	91.21	-4,899.89	1,119.79	1,090.01	954.13	135.88	8.022 SF		
14,922.88	7,730.00	7,894.11	7,736.43	106.31	34.15	91.18	-4,899.90	1,119.78	1,089.77	954.08	135.69	8.031 CC, ES		
15,000.00	7,730.00	7,892.38	7,734.69	107.56	34.15	91.09	-4,899.94	1,119.74	1,092.49	957.73	134.77	8.107		
15,100.00	7,730.00	7,890.13	7,732.45	109.18	34.14	90.97	-4,899.99	1,119.70	1,104.06	971.12	132.94	8.305		
15,200.00	7,730.00	7,887.90	7,730.22	110.81	34.14	90.85	-4,900.04	1,119.65	1,124.43	993.92	130.52	8.615		
15,300.00	7,730.00	7,885.68	7,728.00	112.44	34.13	90.74	-4,900.09	1,119.60	1,153.15	1,025.52	127.63	9.035		
15,400.00	7,730.00	7,883.47	7,725.79	114.08	34.13	90.62	-4,900.13	1,119.56	1,189.59	1,065.17	124.42	9.561		
15,500.00	7,730.00	7,881.27	7,723.59	115.72	34.12	90.50	-4,900.18	1,119.51	1,233.09	1,112.03	121.05	10.186		
15,600.00	7,730.00	7,879.08	7,721.40	117.36	34.11	90.39	-4,900.23	1,119.47	1,282.91	1,165.27	117.64	10.906		
15,700.00	7,730.00	7,876.90	7,719.23	119.00	34.11	90.27	-4,900.27	1,119.43	1,338.36	1,224.09	114.28	11.712		
15,800.00	7,730.00	7,874.73	7,717.06	120.65	34.10	90.16	-4,900.32	1,119.38	1,398.77	1,287.73	111.04	12.597		
15,900.00	7,730.00	7,872.57	7,714.90	122.30	34.10	90.05	-4,900.37	1,119.34	1,463.52	1,355.55	107.97	13.554		
16,000.00	7,730.00	7,870.42	7,712.75	123.96	34.09	89.93	-4,900.41	1,119.30	1,532.06	1,426.96	105.11	14.576		
16,100.00	7,730.00	7,868.28	7,710.61	125.61	34.08	89.82	-4,900.46	1,119.25	1,603.91	1,501.46	102.45	15.655		
16,200.00	7,730.00	7,866.15	7,708.48	127.27	34.08	89.71	-4,900.50	1,119.21	1,678.64	1,578.64	100.01	16.785		
16,300.00	7,730.00	7,864.03	7,706.36	128.94	34.07	89.60	-4,900.55	1,119.17	1,755.89	1,658.12	97.77	17.959		
16,400.00	7,730.00	7,861.92	7,704.25	130.60	34.07	89.49	-4,900.59	1,119.13	1,835.33	1,739.60	95.73	19.172		
16,500.00	7,730.00	7,859.82	7,702.15	132.27	34.06	89.38	-4,900.64	1,119.09	1,916.69	1,822.82	93.87	20.418		
16,600.00	7,730.00	7,857.73	7,700.06	133.94	34.05	89.27	-4,900.68	1,119.05	1,999.75	1,907.56	92.19	21.693		
16,700.00	7,730.00	7,855.64	7,697.98	135.61	34.05	89.16	-4,900.72	1,119.00	2,084.29	1,993.63	90.66	22.991		
16,800.00	7,730.00	7,853.57	7,695.91	137.28	34.04	89.05	-4,900.77	1,118.96	2,170.14	2,080.87	89.27	24.310		
16,900.00	7,730.00	7,851.51	7,693.84	138.96	34.04	88.94	-4,900.81	1,118.92	2,257.16	2,169.15	88.01	25.646		
17,000.00	7,730.00	7,849.45	7,691.79	140.64	34.03	88.83	-4,900.85	1,118.88	2,345.21	2,258.33	86.87	26.996		
17,100.00	7,730.00	7,847.41	7,689.75	142.32	34.03	88.73	-4,900.89	1,118.85	2,434.18	2,348.34	85.84	28.358		
17,200.00	7,730.00	7,845.37	7,687.71	144.00	34.02	88.62	-4,900.94	1,118.81	2,523.97	2,439.07	84.90	29.728		
17,300.00	7,730.00	7,843.35	7,685.68	145.69	34.01	88.51	-4,900.98	1,118.77	2,614.51	2,530.46	84.05	31.106		
17,400.00	7,730.00	7,841.33	7,683.67	147.37	34.01	88.41	-4,901.02	1,118.73	2,705.71	2,622.43	83.28	32.489		
17,500.00	7,730.00	7,839.32	7,681.66	149.06	34.00	88.30	-4,901.06	1,118.69	2,797.51	2,714.93	82.58	33.876		
17,600.00	7,730.00	7,837.32	7,679.66	150.75	34.00	88.20	-4,901.10	1,118.65	2,889.85	2,807.91	81.94	35.266		
17,700.00	7,730.00	7,835.33	7,677.67	152.44	33.99	88.09	-4,901.14	1,118.61	2,982.69	2,901.32	81.37	36.657		
17,800.00	7,730.00	7,833.35	7,675.69	154.13	33.99	87.99	-4,901.18	1,118.58	3,075.97	2,995.13	80.84	38.050		
17,900.00	7,730.00	7,831.37	7,673.72	155.83	33.98	87.89	-4,901.22	1,118.54	3,169.66	3,089.30	80.36	39.442		
18,000.00	7,730.00	7,829.41	7,671.75	157.52	33.98	87.78	-4,901.26	1,118.50	3,263.73	3,183.80	79.93	40.833		
18,100.00	7,730.00	7,827.45	7,669.80	159.22	33.97	87.68	-4,901.30	1,118.47	3,358.13	3,278.60	79.53	42.224		
18,200.00	7,730.00	7,825.51	7,667.85	160.92	33.96	87.58	-4,901.34	1,118.43	3,452.85	3,373.68	79.17	43.612		
18,300.00	7,730.00	7,823.57	7,665.91	162.62	33.96	87.48	-4,901.38	1,118.39	3,547.86	3,469.02	78.84	44.999		
18,400.00	7,730.00	7,821.64	7,663.98	164.32	33.95	87.38	-4,901.42	1,118.36	3,643.14	3,564.59	78.54	46.383		
18,426.22	7,730.00	7,821.13	7,663.48	164.76	33.95	87.35	-4,901.43	1,118.35	3,668.16	3,589.69	78.47	46.745		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.45	-2,139.37	2,181.13	3,055.61					
100.00	100.00	51.09	51.09	0.13	0.08	134.44	-2,139.31	2,181.17	3,055.19	3,054.97	0.22	N/A		
200.00	200.00	157.27	157.27	0.49	0.36	134.44	-2,138.91	2,181.41	3,055.08	3,054.23	0.86	3,566.666		
300.00	300.00	257.20	257.20	0.85	0.71	134.43	-2,138.58	2,181.31	3,054.78	3,053.22	1.57	1,951.241		
400.00	400.00	352.64	352.63	1.21	1.04	134.44	-2,138.68	2,181.02	3,054.64	3,052.38	2.25	1,355.078		
500.00	500.00	453.18	453.17	1.57	1.39	134.44	-2,138.88	2,180.73	3,054.57	3,051.61	2.96	1,030.928		
600.00	600.00	555.08	555.07	1.93	1.75	134.46	-2,139.27	2,180.13	3,054.42	3,050.74	3.68	829.828		
700.00	700.00	657.17	657.16	2.29	2.12	134.47	-2,139.70	2,179.44	3,054.23	3,049.83	4.40	693.865		
800.00	800.00	767.57	767.56	2.64	2.51	134.49	-2,140.20	2,178.38	3,053.87	3,048.72	5.15	592.528		
900.00	900.00	870.56	870.54	3.00	2.88	134.52	-2,140.66	2,176.96	3,053.19	3,047.31	5.88	519.177		
1,000.00	1,000.00	958.97	958.93	3.36	3.19	134.54	-2,141.21	2,175.75	3,052.66	3,046.11	6.56	465.658		
1,089.94	1,089.94	1,040.23	1,040.19	3.68	3.49	134.56	-2,142.04	2,174.83	3,052.57	3,045.40	7.17	425.832		
1,100.00	1,100.00	1,050.06	1,050.01	3.72	3.52	134.57	-2,142.15	2,174.72	3,052.57	3,045.33	7.24	421.644		
1,200.00	1,200.00	1,157.24	1,157.17	4.08	3.90	134.60	-2,143.37	2,173.45	3,052.53	3,044.55	7.98	382.444		
1,300.00	1,299.98	1,263.48	1,263.40	4.43	4.29	87.56	-2,144.38	2,171.86	3,052.06	3,043.34	8.72	350.072		
1,400.00	1,399.84	1,362.78	1,362.68	4.79	4.64	87.70	-2,145.45	2,170.19	3,051.40	3,041.98	9.43	323.615		
1,500.00	1,499.45	1,464.11	1,463.99	5.15	5.01	87.92	-2,146.59	2,168.43	3,050.64	3,040.49	10.15	300.523		
1,600.00	1,598.70	1,562.99	1,562.85	5.51	5.36	88.21	-2,147.69	2,166.64	3,049.73	3,038.86	10.87	280.524		
1,700.00	1,697.47	1,659.39	1,659.23	5.89	5.71	88.54	-2,148.85	2,164.88	3,048.85	3,037.25	11.59	262.953		
1,800.00	1,795.62	1,757.95	1,757.77	6.28	6.06	88.95	-2,149.99	2,163.18	3,048.04	3,035.70	12.34	246.968		
1,900.00	1,893.06	1,862.78	1,862.57	6.69	6.44	89.45	-2,151.06	2,161.33	3,047.22	3,034.09	13.13	232.025		
2,000.00	1,989.64	1,967.40	1,967.18	7.13	6.82	90.01	-2,151.77	2,159.37	3,046.28	3,032.33	13.95	218.363		
2,100.00	2,085.27	2,066.36	2,066.11	7.61	7.17	90.60	-2,152.18	2,157.51	3,045.43	3,030.65	14.78	206.056		
2,200.00	2,179.82	2,164.19	2,163.93	8.12	7.52	91.24	-2,152.39	2,155.73	3,044.86	3,029.22	15.64	194.665		
2,300.00	2,273.17	2,264.42	2,264.14	8.67	7.88	91.94	-2,152.25	2,154.05	3,044.63	3,028.07	16.55	183.934		
2,323.97	2,295.36	2,288.65	2,288.37	8.81	7.97	92.12	-2,152.15	2,153.66	3,044.62	3,027.83	16.78	181.421		
2,400.00	2,365.21	2,353.17	2,352.88	9.27	8.20	92.60	-2,151.86	2,152.65	3,044.84	3,027.38	17.47	174.296		
2,500.00	2,455.84	2,436.63	2,436.34	9.92	8.50	93.25	-2,151.66	2,151.47	3,046.02	3,027.60	18.42	165.381		
2,580.62	2,527.80	2,508.40	2,508.10	10.49	8.75	93.84	-2,151.61	2,150.44	3,047.67	3,028.43	19.24	158.423		
2,600.00	2,544.97	2,533.56	2,533.25	10.63	8.84	94.07	-2,151.57	2,150.04	3,048.12	3,028.65	19.47	156.582		
2,700.00	2,633.58	2,645.14	2,644.81	11.37	9.24	95.06	-2,150.80	2,147.86	3,050.30	3,029.70	20.60	148.070		
2,800.00	2,722.19	2,755.69	2,755.32	12.13	9.63	96.03	-2,149.56	2,145.43	3,052.84	3,031.09	21.75	140.378		
2,900.00	2,810.80	2,861.84	2,861.42	12.91	10.01	96.96	-2,147.31	2,142.85	3,055.22	3,032.32	22.89	133.461		
3,000.00	2,899.41	2,941.50	2,941.03	13.71	10.29	97.66	-2,145.70	2,140.68	3,058.25	3,034.29	23.96	127.645		
3,100.00	2,988.02	3,015.02	3,014.52	14.52	10.55	98.31	-2,144.45	2,138.98	3,062.44	3,037.42	25.01	122.430		
3,200.00	3,076.63	3,097.58	3,097.06	15.34	10.84	99.02	-2,143.05	2,137.51	3,067.60	3,041.50	26.10	117.512		
3,300.00	3,165.24	3,174.19	3,173.65	16.16	11.11	99.68	-2,141.84	2,136.42	3,073.72	3,046.54	27.18	113.094		
3,400.00	3,253.85	3,248.83	3,248.28	17.00	11.37	100.32	-2,140.97	2,135.45	3,080.89	3,052.64	28.25	109.066		
3,500.00	3,342.46	3,323.29	3,322.73	17.84	11.63	100.96	-2,140.35	2,134.74	3,089.15	3,059.84	29.32	105.369		
3,600.00	3,431.07	3,399.27	3,398.71	18.69	11.90	101.61	-2,139.95	2,134.27	3,098.47	3,068.08	30.39	101.952		
3,700.00	3,519.68	3,486.06	3,485.50	19.55	12.21	102.34	-2,139.63	2,133.88	3,108.66	3,077.16	31.50	98.674		
3,800.00	3,608.29	3,573.86	3,573.30	20.40	12.52	103.08	-2,139.36	2,133.48	3,119.54	3,086.92	32.62	95.635		
3,900.00	3,696.90	3,662.17	3,661.60	21.26	12.83	103.82	-2,139.09	2,133.09	3,131.09	3,097.36	33.73	92.819		
4,000.00	3,785.51	3,750.37	3,749.81	22.13	13.15	104.55	-2,138.80	2,132.75	3,143.29	3,108.45	34.84	90.214		
4,100.00	3,874.12	3,836.80	3,836.23	23.00	13.45	105.26	-2,138.53	2,132.46	3,156.15	3,120.21	35.94	87.815		
4,200.00	3,962.73	3,923.45	3,922.88	23.87	13.76	105.97	-2,138.34	2,132.21	3,169.73	3,132.69	37.04	85.586		
4,300.00	4,051.34	4,017.39	4,016.82	24.74	14.10	106.74	-2,138.17	2,131.68	3,183.86	3,145.70	38.15	83.447		
4,400.00	4,139.95	4,114.61	4,114.04	25.62	14.44	107.53	-2,137.91	2,130.81	3,198.42	3,159.13	39.28	81.424		
4,500.00	4,228.56	4,216.33	4,215.74	26.49	14.81	108.36	-2,137.44	2,129.42	3,213.27	3,172.86	40.42	79.501		
4,600.00	4,317.17	4,314.60	4,314.00	27.37	15.16	109.15	-2,136.69	2,127.89	3,228.44	3,186.90	41.53	77.728		
4,700.00	4,405.78	4,404.03	4,403.41	28.25	15.48	109.87	-2,135.89	2,126.42	3,244.07	3,201.46	42.61	76.132		
4,800.00	4,494.39	4,489.37	4,488.74	29.13	15.79	110.56	-2,135.20	2,124.84	3,260.31	3,216.64	43.66	74.668		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,583.00	4,604.06	4,603.39	30.02	16.20	111.47	-2,134.07	2,122.19	3,276.87	3,232.05	44.82	73.108		
5,000.00	4,671.61	4,690.69	4,689.98	30.90	16.51	112.16	-2,132.93	2,119.93	3,293.67	3,247.80	45.86	71.812		
5,100.00	4,760.22	4,775.33	4,774.59	31.79	16.81	112.82	-2,131.87	2,117.72	3,311.10	3,264.20	46.89	70.611		
5,200.00	4,848.83	4,863.52	4,862.74	32.67	17.13	113.51	-2,130.80	2,115.50	3,329.17	3,281.25	47.93	69.466		
5,300.00	4,937.44	4,949.72	4,948.91	33.56	17.44	114.18	-2,129.72	2,113.43	3,347.81	3,298.87	48.94	68.403		
5,400.00	5,026.05	5,035.39	5,034.55	34.45	17.75	114.83	-2,128.73	2,111.41	3,367.10	3,317.15	49.95	67.411		
5,500.00	5,114.66	5,123.89	5,123.03	35.34	18.06	115.50	-2,127.69	2,109.39	3,386.94	3,335.99	50.96	66.465		
5,600.00	5,203.27	5,214.89	5,214.00	36.23	18.39	116.18	-2,126.62	2,107.35	3,407.33	3,355.36	51.97	65.564		
5,700.00	5,291.88	5,321.84	5,320.91	37.12	18.77	116.96	-2,124.78	2,105.47	3,427.86	3,374.83	53.03	64.635		
5,800.00	5,380.50	5,411.31	5,410.36	38.01	19.09	117.60	-2,122.92	2,104.33	3,448.70	3,394.68	54.02	63.839		
5,900.00	5,469.11	5,499.17	5,498.19	38.90	19.40	118.22	-2,121.03	2,103.55	3,470.03	3,415.04	54.99	63.098		
6,000.00	5,557.72	5,581.27	5,580.27	39.79	19.68	118.78	-2,119.28	2,103.16	3,491.93	3,435.99	55.94	62.428		
6,100.00	5,646.33	5,665.54	5,664.53	40.68	19.98	119.35	-2,117.60	2,102.99	3,514.43	3,457.55	56.88	61.790		
6,200.00	5,734.94	5,749.90	5,748.87	41.58	20.27	119.92	-2,116.01	2,102.85	3,537.48	3,479.67	57.81	61.191		
6,300.00	5,823.55	5,835.67	5,834.62	42.47	20.57	120.49	-2,114.51	2,102.71	3,561.07	3,502.33	58.74	60.622		
6,400.00	5,912.16	5,923.88	5,922.82	43.36	20.87	121.06	-2,113.01	2,102.60	3,585.13	3,525.45	59.68	60.076		
6,500.00	6,000.77	6,010.71	6,009.64	44.26	21.18	121.63	-2,111.56	2,102.48	3,609.62	3,549.03	60.60	59.567		
6,600.00	6,089.38	6,092.98	6,091.90	45.15	21.46	122.16	-2,110.30	2,102.36	3,634.64	3,573.15	61.49	59.106		
6,700.00	6,177.99	6,189.44	6,188.35	46.05	21.80	122.77	-2,108.83	2,102.22	3,660.07	3,597.63	62.44	58.615		
6,800.00	6,266.60	6,289.21	6,288.10	46.94	22.15	123.39	-2,107.05	2,102.01	3,685.65	3,622.25	63.40	58.135		
6,900.00	6,355.21	6,362.50	6,361.38	47.84	22.41	123.85	-2,105.76	2,101.87	3,711.63	3,647.39	64.23	57.782		
7,000.00	6,443.82	6,440.46	6,439.33	48.74	22.68	124.32	-2,104.75	2,101.78	3,738.39	3,673.30	65.08	57.440		
7,100.00	6,532.43	6,527.83	6,526.69	49.63	22.99	124.85	-2,103.71	2,101.66	3,765.61	3,699.64	65.97	57.083		
7,200.00	6,621.04	6,614.56	6,613.43	50.53	23.29	125.37	-2,102.72	2,101.51	3,793.22	3,726.38	66.84	56.750		
7,300.00	6,709.65	6,696.86	6,695.72	51.42	23.58	125.86	-2,101.88	2,101.37	3,821.30	3,753.61	67.69	56.453		
7,400.00	6,798.26	6,776.20	6,775.06	52.32	23.85	126.32	-2,101.22	2,101.44	3,849.90	3,781.38	68.51	56.191		
7,500.00	6,886.87	6,878.32	6,877.17	53.22	24.20	126.90	-2,100.38	2,102.05	3,878.86	3,809.43	69.44	55.863		
7,600.00	6,975.48	6,973.25	6,972.09	54.12	24.53	127.43	-2,099.24	2,102.83	3,907.81	3,837.49	70.32	55.573		
7,656.30	7,025.36	7,025.18	7,024.01	54.62	24.71	127.71	-2,098.60	2,103.29	3,924.21	3,853.41	70.81	55.421		
7,700.00	7,064.54	7,066.65	7,065.48	55.00	24.85	128.02	-2,098.06	2,103.67	3,935.39	3,864.20	71.19	55.281		
7,750.00	7,110.29	7,114.75	7,113.57	55.40	25.01	111.06	-2,097.41	2,104.15	3,944.24	3,872.61	71.62	55.068		
7,800.00	7,156.67	7,162.83	7,161.64	55.75	25.18	99.42	-2,096.74	2,104.63	3,948.82	3,876.77	72.05	54.804		
7,850.00	7,203.34	7,212.03	7,210.84	56.05	25.35	86.71	-2,096.03	2,105.13	3,949.10	3,876.63	72.47	54.490		
7,900.00	7,249.95	7,264.09	7,262.89	56.30	25.52	74.27	-2,095.22	2,105.69	3,945.06	3,872.17	72.89	54.122		
7,950.00	7,296.14	7,318.19	7,316.98	56.50	25.71	63.27	-2,094.31	2,106.34	3,936.70	3,863.39	73.30	53.706		
8,000.00	7,341.56	7,377.10	7,375.87	56.64	25.91	54.27	-2,093.14	2,107.17	3,924.01	3,850.29	73.71	53.234		
8,050.00	7,385.86	7,422.18	7,420.93	56.74	26.07	47.12	-2,092.13	2,107.87	3,907.11	3,833.07	74.04	52.768		
8,100.00	7,428.71	7,457.83	7,456.57	56.79	26.19	41.55	-2,091.39	2,108.39	3,886.30	3,811.99	74.31	52.297		
8,150.00	7,469.77	7,491.95	7,490.68	56.80	26.31	37.25	-2,090.74	2,108.84	3,861.74	3,787.19	74.56	51.797		
8,200.00	7,508.75	7,529.28	7,528.00	56.77	26.44	33.98	-2,090.07	2,109.29	3,833.58	3,758.79	74.80	51.252		
8,250.00	7,545.33	7,565.73	7,564.45	56.70	26.56	31.48	-2,089.41	2,109.66	3,801.99	3,726.96	75.02	50.677		
8,300.00	7,579.25	7,599.37	7,598.08	56.59	26.68	29.61	-2,088.80	2,109.95	3,767.18	3,691.95	75.22	50.080		
8,350.00	7,610.24	7,627.71	7,626.42	56.45	26.78	28.24	-2,088.29	2,110.17	3,729.42	3,654.03	75.39	49.471		
8,400.00	7,638.06	7,653.05	7,651.75	56.28	26.86	27.33	-2,087.86	2,110.37	3,689.00	3,613.48	75.53	48.844		
8,450.00	7,662.52	7,675.23	7,673.93	56.09	26.94	26.86	-2,087.48	2,110.54	3,646.22	3,570.58	75.64	48.203		
8,500.00	7,683.41	7,694.09	7,692.78	55.88	27.01	26.88	-2,087.17	2,110.69	3,601.38	3,525.64	75.74	47.550		
8,550.00	7,700.59	7,712.71	7,711.40	55.64	27.07	27.63	-2,086.87	2,110.84	3,554.81	3,478.98	75.83	46.879		
8,600.00	7,713.91	7,728.40	7,727.09	55.39	27.13	29.56	-2,086.59	2,110.98	3,506.84	3,430.94	75.91	46.200		
8,650.00	7,723.29	7,739.04	7,737.72	55.14	27.16	34.21	-2,086.40	2,111.07	3,457.84	3,381.88	75.96	45.524		
8,700.00	7,728.64	7,744.57	7,743.25	54.87	27.18	50.17	-2,086.30	2,111.12	3,408.18	3,332.20	75.99	44.852		
8,740.83	7,730.00	7,745.32	7,744.00	54.65	27.18	120.70	-2,086.29	2,111.13	3,367.40	3,291.41	76.00	44.311		
8,800.00	7,730.00	7,743.95	7,742.63	54.33	27.18	120.16	-2,086.31	2,111.12	3,308.28	3,232.28	76.00	43.531		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	7,741.67	7,740.35	53.82	27.17	119.24	-2,086.35	2,111.10	3,208.35	3,132.35	76.00	42.213		
9,000.00	7,730.00	7,739.42	7,738.10	53.33	27.16	118.31	-2,086.40	2,111.07	3,108.43	3,032.41	76.01	40.894		
9,100.00	7,730.00	7,737.20	7,735.88	52.87	27.16	117.39	-2,086.44	2,111.05	3,008.50	2,932.48	76.02	39.575		
9,200.00	7,730.00	7,735.00	7,733.69	52.44	27.15	116.46	-2,086.48	2,111.03	2,908.59	2,832.56	76.03	38.255		
9,300.00	7,730.00	7,732.84	7,731.53	52.03	27.14	115.53	-2,086.51	2,111.02	2,808.68	2,732.63	76.04	36.935		
9,400.00	7,730.00	7,730.71	7,729.40	51.65	27.13	114.59	-2,086.55	2,111.00	2,708.77	2,632.71	76.06	35.614		
9,500.00	7,730.00	7,728.61	7,727.29	51.29	27.13	113.66	-2,086.59	2,110.98	2,608.87	2,532.79	76.08	34.292		
9,600.00	7,730.00	7,726.53	7,725.21	50.95	27.12	112.73	-2,086.63	2,110.96	2,508.97	2,432.88	76.10	32.970		
9,700.00	7,730.00	7,724.48	7,723.16	50.64	27.11	111.79	-2,086.66	2,110.94	2,409.09	2,332.97	76.12	31.648		
9,800.00	7,730.00	7,722.45	7,721.14	50.35	27.11	110.86	-2,086.70	2,110.92	2,309.21	2,233.06	76.15	30.325		
9,900.00	7,730.00	7,720.46	7,719.14	50.09	27.10	109.92	-2,086.73	2,110.91	2,209.34	2,133.16	76.18	29.003		
10,000.00	7,730.00	7,718.48	7,717.17	49.86	27.09	108.99	-2,086.77	2,110.89	2,109.48	2,033.27	76.21	27.679		
10,100.00	7,730.00	7,716.54	7,715.23	49.65	27.08	108.06	-2,086.80	2,110.87	2,009.63	1,933.38	76.25	26.356		
10,200.00	7,730.00	7,714.61	7,713.30	49.48	27.08	107.13	-2,086.83	2,110.86	1,909.80	1,833.51	76.29	25.032		
10,300.00	7,730.00	7,712.72	7,711.41	49.35	27.07	106.20	-2,086.87	2,110.84	1,809.98	1,733.64	76.34	23.709		
10,400.00	7,730.00	7,710.84	7,709.53	49.27	27.07	105.28	-2,086.90	2,110.83	1,710.19	1,633.79	76.40	22.385		
10,500.00	7,730.00	7,708.99	7,707.68	49.26	27.06	104.36	-2,086.93	2,110.81	1,610.41	1,533.95	76.46	21.061		
10,600.00	7,730.00	7,707.16	7,705.85	49.32	27.05	103.45	-2,086.96	2,110.80	1,510.67	1,434.13	76.54	19.738		
10,700.00	7,730.00	7,705.35	7,704.04	49.51	27.05	102.54	-2,086.99	2,110.78	1,410.96	1,334.34	76.62	18.414		
10,800.00	7,730.00	7,703.57	7,702.26	49.83	27.04	101.63	-2,087.02	2,110.77	1,311.29	1,234.57	76.72	17.092		
10,900.00	7,730.00	7,701.81	7,700.50	50.31	27.03	100.73	-2,087.05	2,110.75	1,211.67	1,134.84	76.84	15.769		
11,000.00	7,730.00	7,700.07	7,698.76	50.96	27.03	99.84	-2,087.07	2,110.74	1,112.12	1,035.15	76.98	14.447		
11,100.00	7,730.00	7,698.47	7,697.17	51.75	27.02	99.02	-2,087.10	2,110.73	1,012.66	935.51	77.15	13.126		
11,200.00	7,730.00	7,696.88	7,695.57	52.66	27.02	98.19	-2,087.13	2,110.71	913.31	835.95	77.35	11.807		
11,300.00	7,730.00	7,695.28	7,693.98	53.67	27.01	97.36	-2,087.15	2,110.70	814.11	736.50	77.61	10.489		
11,400.00	7,730.00	7,693.68	7,692.37	54.75	27.01	96.52	-2,087.18	2,110.69	715.14	637.19	77.95	9.175		
11,500.00	7,730.00	7,692.07	7,690.76	55.89	27.00	95.68	-2,087.20	2,110.68	616.49	538.10	78.39	7.864		
11,600.00	7,730.00	7,690.45	7,689.14	57.07	26.99	94.83	-2,087.23	2,110.66	518.36	439.35	79.01	6.561		
11,700.00	7,730.00	7,688.83	7,687.52	58.30	26.99	93.97	-2,087.26	2,110.65	421.10	341.18	79.92	5.269		
11,800.00	7,730.00	7,687.20	7,685.89	59.55	26.98	93.11	-2,087.28	2,110.64	325.49	244.13	81.37	4.000		
11,900.00	7,730.00	7,685.56	7,684.25	60.84	26.98	92.25	-2,087.31	2,110.62	233.59	149.71	83.88	2.785		
12,000.00	7,730.00	7,683.92	7,682.61	62.15	26.97	91.38	-2,087.34	2,110.61	152.23	64.06	88.17	1.727		
12,100.00	7,730.00	7,682.27	7,680.96	63.49	26.97	90.51	-2,087.36	2,110.60	108.54	20.56	87.98	1.234 Level 2, ES, SF		
12,106.98	7,730.00	7,682.15	7,680.85	63.58	26.97	90.45	-2,087.37	2,110.60	108.32	21.08	87.23	1.242 Level 2, CC		
12,200.00	7,730.00	7,680.61	7,679.31	64.85	26.96	89.63	-2,087.39	2,110.59	142.77	67.31	75.46	1.892		
12,300.00	7,730.00	7,678.95	7,677.64	66.22	26.95	88.75	-2,087.42	2,110.57	221.31	149.37	71.94	3.076		
12,400.00	7,730.00	7,677.28	7,675.97	67.62	26.95	87.87	-2,087.45	2,110.56	312.36	240.42	71.94	4.342		
12,500.00	7,730.00	7,675.60	7,674.30	69.03	26.94	86.99	-2,087.47	2,110.55	407.62	335.23	72.39	5.631		
12,600.00	7,730.00	7,673.92	7,672.62	70.45	26.94	86.10	-2,087.50	2,110.53	504.71	431.89	72.82	6.931		
12,700.00	7,730.00	7,672.23	7,670.93	71.90	26.93	85.21	-2,087.53	2,110.52	602.75	529.57	73.17	8.237		
12,800.00	7,730.00	7,670.53	7,669.23	73.35	26.93	84.33	-2,087.56	2,110.51	701.34	627.87	73.46	9.547		
12,900.00	7,730.00	7,668.83	7,667.53	74.81	26.92	83.44	-2,087.59	2,110.49	800.27	726.58	73.70	10.859		
13,000.00	7,730.00	7,667.12	7,665.82	76.29	26.91	82.55	-2,087.62	2,110.48	899.44	825.55	73.89	12.173		
13,100.00	7,730.00	7,665.40	7,664.10	77.78	26.91	81.66	-2,087.65	2,110.47	998.77	924.71	74.05	13.487		
13,200.00	7,730.00	7,663.68	7,662.37	79.28	26.90	80.77	-2,087.67	2,110.45	1,098.22	1,024.02	74.20	14.802		
13,300.00	7,730.00	7,661.95	7,660.64	80.79	26.90	79.88	-2,087.70	2,110.44	1,197.76	1,123.44	74.32	16.116		
13,400.00	7,730.00	7,660.21	7,658.90	82.31	26.89	79.00	-2,087.73	2,110.43	1,297.36	1,222.94	74.43	17.431		
13,500.00	7,730.00	7,658.46	7,657.16	83.84	26.88	78.11	-2,087.76	2,110.41	1,397.03	1,322.50	74.52	18.746		
13,600.00	7,730.00	7,656.71	7,655.41	85.37	26.88	77.23	-2,087.79	2,110.40	1,496.73	1,422.12	74.61	20.060		
13,700.00	7,730.00	7,654.95	7,653.65	86.92	26.87	76.35	-2,087.82	2,110.38	1,596.47	1,521.78	74.69	21.374		
13,800.00	7,730.00	7,653.18	7,651.88	88.47	26.87	75.47	-2,087.85	2,110.37	1,696.24	1,621.47	74.77	22.687		
13,900.00	7,730.00	7,651.41	7,650.11	90.03	26.86	74.60	-2,087.88	2,110.36	1,796.03	1,721.20	74.84	24.000		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,000.00	7,730.00	7,649.62	7,648.32	91.59	26.85	73.73	-2,087.91	2,110.34	1,895.84	1,820.95	74.90	25.312		
14,100.00	7,730.00	7,647.83	7,646.53	93.16	26.85	72.87	-2,087.94	2,110.33	1,995.67	1,920.71	74.96	26.623		
14,200.00	7,730.00	7,646.04	7,644.74	94.74	26.84	72.01	-2,087.98	2,110.31	2,095.52	2,020.50	75.02	27.934		
14,300.00	7,730.00	7,644.23	7,642.93	96.33	26.83	71.16	-2,088.01	2,110.30	2,195.38	2,120.30	75.07	29.244		
14,400.00	7,730.00	7,642.42	7,641.12	97.92	26.83	70.31	-2,088.04	2,110.29	2,295.25	2,220.12	75.12	30.553		
14,500.00	7,730.00	7,640.60	7,639.30	99.51	26.82	69.46	-2,088.07	2,110.27	2,395.12	2,319.95	75.17	31.861		
14,600.00	7,730.00	7,638.77	7,637.48	101.11	26.82	68.62	-2,088.10	2,110.26	2,495.01	2,419.79	75.22	33.168		
14,700.00	7,730.00	7,636.94	7,635.64	102.72	26.81	67.79	-2,088.13	2,110.24	2,594.90	2,519.63	75.27	34.474		
14,800.00	7,730.00	7,635.10	7,633.80	104.33	26.80	66.97	-2,088.17	2,110.23	2,694.81	2,619.49	75.32	35.779		
14,900.00	7,730.00	7,633.25	7,631.95	105.94	26.80	66.15	-2,088.20	2,110.21	2,794.71	2,719.35	75.36	37.084		
15,000.00	7,730.00	7,631.39	7,630.09	107.56	26.79	65.34	-2,088.23	2,110.20	2,894.62	2,819.22	75.41	38.387		
15,100.00	7,730.00	7,629.52	7,628.22	109.18	26.78	64.53	-2,088.26	2,110.19	2,994.54	2,919.09	75.45	39.689		
15,200.00	7,730.00	7,627.65	7,626.35	110.81	26.78	63.74	-2,088.30	2,110.17	3,094.46	3,018.97	75.49	40.990		
15,300.00	7,730.00	7,625.76	7,624.47	112.44	26.77	62.95	-2,088.33	2,110.16	3,194.39	3,118.85	75.54	42.290		
15,400.00	7,730.00	7,623.87	7,622.58	114.08	26.76	62.17	-2,088.36	2,110.14	3,294.32	3,218.74	75.58	43.589		
15,500.00	7,730.00	7,621.98	7,620.68	115.72	26.76	61.40	-2,088.40	2,110.13	3,394.25	3,318.63	75.62	44.886		
15,600.00	7,730.00	7,620.07	7,618.77	117.36	26.75	60.63	-2,088.43	2,110.11	3,494.18	3,418.52	75.66	46.182		
15,700.00	7,730.00	7,618.15	7,616.86	119.00	26.74	59.87	-2,088.46	2,110.10	3,594.12	3,518.42	75.70	47.477		
15,800.00	7,730.00	7,616.23	7,614.94	120.65	26.74	59.13	-2,088.50	2,110.08	3,694.06	3,618.32	75.74	48.771		
15,900.00	7,730.00	7,614.30	7,613.01	122.30	26.73	58.39	-2,088.53	2,110.07	3,794.00	3,718.22	75.78	50.064		
16,000.00	7,730.00	7,612.36	7,611.07	123.96	26.72	57.66	-2,088.57	2,110.05	3,893.95	3,818.12	75.82	51.355		
16,100.00	7,730.00	7,610.41	7,609.12	125.61	26.72	56.93	-2,088.60	2,110.04	3,993.89	3,918.03	75.86	52.645		
16,200.00	7,730.00	7,608.46	7,607.16	127.27	26.71	56.22	-2,088.64	2,110.02	4,093.84	4,017.93	75.91	53.933		
16,300.00	7,730.00	7,606.49	7,605.20	128.94	26.70	55.52	-2,088.67	2,110.01	4,193.79	4,117.84	75.95	55.220		
16,400.00	7,730.00	7,604.52	7,603.23	130.60	26.70	54.82	-2,088.71	2,109.99	4,293.74	4,217.75	75.99	56.506		
16,500.00	7,730.00	7,602.54	7,601.24	132.27	26.69	54.13	-2,088.74	2,109.98	4,393.69	4,317.67	76.03	57.790		
16,600.00	7,730.00	7,600.54	7,599.25	133.94	26.68	53.45	-2,088.78	2,109.96	4,493.65	4,417.58	76.07	59.073		
16,700.00	7,730.00	7,598.70	7,597.41	135.61	26.68	52.84	-2,088.81	2,109.95	4,593.60	4,517.49	76.11	60.354		
16,800.00	7,730.00	7,596.91	7,595.62	137.28	26.67	52.25	-2,088.85	2,109.93	4,693.56	4,617.41	76.15	61.634		
16,900.00	7,730.00	7,595.13	7,593.84	138.96	26.66	51.67	-2,088.88	2,109.92	4,793.52	4,717.32	76.19	62.913		
17,000.00	7,730.00	7,593.34	7,592.05	140.64	26.66	51.10	-2,088.91	2,109.90	4,893.48	4,817.24	76.23	64.190		
17,100.00	7,730.00	7,591.56	7,590.27	142.32	26.65	50.54	-2,088.94	2,109.89	4,993.43	4,917.16	76.28	65.465		
17,200.00	7,730.00	7,589.78	7,588.49	144.00	26.65	49.99	-2,088.98	2,109.88	5,093.40	5,017.08	76.32	66.739		
17,300.00	7,730.00	7,587.99	7,586.71	145.69	26.64	49.45	-2,089.01	2,109.86	5,193.36	5,117.00	76.36	68.011		
17,400.00	7,730.00	7,586.21	7,584.92	147.37	26.63	48.92	-2,089.04	2,109.85	5,293.32	5,216.92	76.40	69.281		
17,500.00	7,730.00	7,584.43	7,583.14	149.06	26.63	48.40	-2,089.07	2,109.83	5,393.28	5,316.84	76.45	70.550		
17,600.00	7,730.00	7,582.65	7,581.37	150.75	26.62	47.88	-2,089.10	2,109.82	5,493.25	5,416.76	76.49	71.817		
17,700.00	7,730.00	7,580.87	7,579.59	152.44	26.61	47.38	-2,089.14	2,109.80	5,593.21	5,516.68	76.53	73.083		
17,800.00	7,730.00	7,579.10	7,577.81	154.13	26.61	46.88	-2,089.17	2,109.79	5,693.18	5,616.60	76.58	74.347		
17,900.00	7,730.00	7,577.32	7,576.03	155.83	26.60	46.39	-2,089.20	2,109.77	5,793.14	5,716.52	76.62	75.608		
18,000.00	7,730.00	7,575.54	7,574.26	157.52	26.60	45.91	-2,089.23	2,109.75	5,893.11	5,816.44	76.66	76.869		
18,100.00	7,730.00	7,573.77	7,572.48	159.22	26.59	45.44	-2,089.26	2,109.74	5,993.07	5,916.37	76.71	78.127		
18,200.00	7,730.00	7,571.99	7,570.71	160.92	26.58	44.97	-2,089.30	2,109.72	6,093.04	6,016.29	76.75	79.384		
18,300.00	7,730.00	7,570.22	7,568.94	162.62	26.58	44.51	-2,089.33	2,109.71	6,193.01	6,116.21	76.80	80.639		
18,400.00	7,730.00	7,568.45	7,567.16	164.32	26.57	44.07	-2,089.36	2,109.69	6,292.98	6,216.13	76.85	81.891		
18,426.22	7,730.00	7,567.98	7,566.70	164.76	26.57	43.95	-2,089.37	2,109.69	6,319.19	6,242.33	76.86	82.220		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	70.41	764.73	2,148.67	2,281.09					
100.00	100.00	80.90	80.90	0.13	0.13	70.41	764.70	2,148.25	2,280.41	2,280.15	0.26	8,666.712		
200.00	200.00	234.06	234.01	0.49	0.65	70.36	765.37	2,144.84	2,278.58	2,277.43	1.15	1,986.562		
300.00	300.00	491.30	490.25	0.85	1.63	70.06	770.64	2,123.90	2,271.29	2,268.82	2.47	920.214		
400.00	400.00	638.31	635.54	1.21	2.24	69.68	778.69	2,103.10	2,259.74	2,256.35	3.39	666.921		
500.00	500.00	742.60	737.96	1.57	2.71	69.30	788.20	2,085.90	2,247.36	2,243.19	4.17	539.579		
600.00	600.00	825.49	819.01	1.93	3.10	68.93	798.12	2,071.62	2,235.34	2,230.46	4.88	458.279		
700.00	700.00	904.43	895.88	2.29	3.49	68.52	809.63	2,057.85	2,224.15	2,218.55	5.59	397.571		
800.00	800.00	980.26	969.43	2.64	3.87	68.09	822.50	2,044.66	2,214.01	2,207.69	6.32	350.466		
900.00	900.00	1,095.20	1,080.40	3.00	4.48	67.36	844.40	2,024.30	2,204.60	2,197.34	7.26	303.786		
1,000.00	1,000.00	1,183.50	1,165.72	3.36	4.95	66.80	860.55	2,008.24	2,194.70	2,186.63	8.07	271.891		
1,100.00	1,100.00	1,283.46	1,262.42	3.72	5.48	66.18	878.56	1,990.47	2,185.32	2,176.36	8.95	244.091		
1,200.00	1,200.00	1,387.27	1,362.20	4.08	6.07	65.47	899.37	1,970.82	2,175.94	2,166.05	9.88	220.148		
1,300.00	1,299.98	1,481.04	1,451.90	4.43	6.62	17.74	919.55	1,952.38	2,165.13	2,154.34	10.79	200.745		
1,400.00	1,399.84	1,573.18	1,539.89	4.79	7.17	17.16	939.90	1,934.14	2,151.46	2,139.77	11.69	184.058		
1,500.00	1,499.45	1,657.78	1,620.80	5.15	7.68	16.66	958.43	1,917.77	2,135.13	2,122.58	12.55	170.142		
1,600.00	1,598.70	1,757.75	1,716.60	5.51	8.27	16.10	979.80	1,898.82	2,115.92	2,102.43	13.49	156.799		
1,700.00	1,697.47	1,852.57	1,807.54	5.89	8.83	15.61	999.77	1,880.87	2,093.58	2,079.17	14.41	145.281		
1,800.00	1,795.62	1,952.07	1,902.97	6.28	9.42	15.12	1,020.64	1,861.93	2,068.07	2,052.72	15.36	134.672		
1,900.00	1,893.06	2,034.13	1,981.92	6.69	9.89	14.77	1,037.14	1,846.87	2,039.73	2,023.53	16.19	125.958		
2,000.00	1,989.64	2,150.89	2,094.41	7.13	10.57	14.25	1,059.86	1,825.33	2,008.00	1,990.78	17.22	116.604		
2,100.00	2,085.27	2,251.32	2,190.80	7.61	11.17	13.81	1,079.94	1,805.57	1,972.48	1,954.30	18.17	108.539		
2,200.00	2,179.82	2,341.28	2,277.03	8.12	11.71	13.43	1,098.18	1,787.55	1,933.84	1,914.77	19.08	101.380		
2,300.00	2,273.17	2,428.31	2,360.58	8.67	12.23	13.10	1,115.48	1,770.38	1,892.32	1,872.36	19.96	94.806		
2,400.00	2,365.21	2,509.83	2,438.95	9.27	12.71	12.81	1,131.49	1,754.64	1,848.10	1,827.29	20.81	88.798		
2,500.00	2,455.84	2,585.16	2,511.34	9.92	13.15	12.56	1,146.64	1,740.33	1,801.43	1,779.79	21.64	83.254		
2,580.62	2,527.80	2,646.62	2,570.33	10.49	13.52	12.34	1,159.42	1,728.79	1,762.10	1,739.79	22.31	78.976		
2,600.00	2,544.97	2,661.47	2,584.60	10.63	13.61	12.24	1,162.53	1,726.03	1,752.48	1,730.00	22.48	77.969		
2,700.00	2,633.58	2,734.91	2,655.14	11.37	14.04	11.74	1,177.95	1,712.66	1,703.17	1,679.88	23.29	73.117		
2,800.00	2,722.19	2,810.78	2,728.19	12.13	14.48	11.21	1,193.79	1,699.67	1,654.72	1,630.59	24.13	68.582		
2,900.00	2,810.80	2,907.31	2,821.19	12.91	15.04	10.50	1,213.69	1,683.10	1,606.28	1,581.21	25.06	64.086		
3,000.00	2,899.41	2,997.06	2,907.75	13.71	15.55	9.83	1,231.58	1,667.55	1,557.56	1,531.59	25.97	59.983		
3,100.00	2,988.02	3,074.29	2,982.41	14.52	15.99	9.24	1,246.54	1,654.69	1,509.22	1,482.41	26.81	56.295		
3,200.00	3,076.63	3,180.53	3,084.99	15.34	16.59	8.35	1,267.30	1,636.39	1,460.72	1,432.94	27.78	52.578		
3,300.00	3,165.24	3,266.20	3,167.32	16.16	17.10	7.51	1,284.79	1,620.42	1,411.87	1,383.18	28.69	49.207		
3,400.00	3,253.85	3,356.32	3,253.94	17.00	17.63	6.58	1,302.97	1,603.50	1,363.07	1,333.44	29.62	46.015		
3,500.00	3,342.46	3,437.84	3,332.47	17.84	18.11	5.71	1,318.91	1,588.53	1,314.48	1,283.97	30.51	43.078		
3,600.00	3,431.07	3,523.99	3,415.34	18.69	18.62	4.69	1,336.20	1,572.51	1,266.32	1,234.88	31.44	40.280		
3,700.00	3,519.68	3,609.76	3,497.56	19.55	19.13	3.56	1,354.09	1,555.91	1,218.42	1,186.05	32.37	37.637		
3,800.00	3,608.29	3,691.39	3,576.00	20.40	19.62	2.43	1,370.69	1,540.53	1,170.98	1,137.69	33.29	35.170		
3,900.00	3,696.90	3,774.27	3,655.84	21.26	20.10	1.24	1,387.18	1,525.66	1,124.30	1,090.08	34.22	32.853		
4,000.00	3,785.51	3,859.63	3,737.97	22.13	20.60	-0.10	1,404.49	1,510.09	1,078.13	1,042.96	35.17	30.656		
4,100.00	3,874.12	3,944.40	3,819.44	23.00	21.10	-1.56	1,421.94	1,494.45	1,032.56	996.43	36.13	28.579		
4,200.00	3,962.73	4,030.53	3,902.22	23.87	21.61	-3.17	1,439.64	1,478.59	987.63	950.52	37.11	26.613		
4,300.00	4,051.34	4,118.09	3,986.58	24.74	22.12	-4.89	1,457.03	1,462.91	943.29	905.19	38.11	24.755		
4,400.00	4,139.95	4,206.77	4,072.06	25.62	22.64	-6.80	1,474.43	1,446.88	899.49	860.36	39.12	22.991		
4,500.00	4,228.56	4,295.46	4,157.39	26.49	23.16	-8.93	1,491.92	1,430.23	856.29	816.11	40.18	21.309		
4,600.00	4,317.17	4,386.22	4,244.80	27.37	23.69	-11.30	1,509.31	1,413.03	813.73	772.45	41.29	19.710		
4,700.00	4,405.78	4,459.98	4,315.90	28.25	24.12	-13.38	1,523.42	1,399.41	772.64	730.26	42.38	18.230		
4,800.00	4,494.39	4,548.09	4,400.69	29.13	24.64	-16.11	1,541.19	1,383.38	733.87	690.29	43.59	16.838		
4,900.00	4,583.00	4,640.58	4,489.67	30.02	25.18	-19.31	1,559.16	1,365.61	695.83	650.96	44.88	15.505		
5,000.00	4,671.61	4,732.60	4,578.72	30.90	25.69	-22.64	1,575.46	1,349.15	659.01	612.80	46.21	14.262		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
5,100.00	4,760.22	4,829.66	4,673.62	31.79	26.18	-26.18	1,589.86	1,334.80	623.08	575.52	47.56	13.101		
5,200.00	4,848.83	4,922.65	4,765.11	32.67	26.61	-29.72	1,601.34	1,322.75	587.72	538.80	48.92	12.013		
5,300.00	4,937.44	5,011.16	4,852.47	33.56	26.99	-33.29	1,611.31	1,312.72	554.06	503.73	50.33	11.008		
5,400.00	5,026.05	5,105.11	4,945.46	34.45	27.38	-37.33	1,621.13	1,303.49	522.41	470.62	51.80	10.086		
5,500.00	5,114.66	5,205.01	5,044.78	35.34	27.74	-41.77	1,628.97	1,296.42	491.44	438.18	53.26	9.227		
5,600.00	5,203.27	5,304.88	5,144.43	36.23	28.05	-46.41	1,634.10	1,292.17	460.95	406.25	54.70	8.427		
5,700.00	5,291.88	5,404.05	5,243.53	37.12	28.32	-51.37	1,636.71	1,289.84	431.02	374.89	56.13	7.679		
5,800.00	5,380.50	5,498.95	5,338.43	38.01	28.55	-56.57	1,637.28	1,289.12	402.27	344.69	57.58	6.986		
5,900.00	5,469.11	5,588.13	5,427.61	38.90	28.75	-61.97	1,637.12	1,289.28	376.23	317.12	59.10	6.366		
6,000.00	5,557.72	5,677.00	5,516.47	39.79	28.95	-67.90	1,637.15	1,289.78	354.43	293.82	60.61	5.848		
6,100.00	5,646.33	5,765.64	5,605.11	40.68	29.14	-74.41	1,636.99	1,290.04	337.46	275.41	62.06	5.438		
6,200.00	5,734.94	5,853.68	5,693.15	41.58	29.34	-81.34	1,636.88	1,290.14	326.35	262.97	63.38	5.149		
6,300.00	5,823.55	5,941.06	5,780.53	42.47	29.55	-88.51	1,636.87	1,290.01	321.82	257.28	64.54	4.986		
6,314.00	5,835.95	5,953.20	5,792.67	42.60	29.58	-89.51	1,636.90	1,289.97	321.75	257.06	64.69	4.974 CC, ES		
6,400.00	5,912.16	6,029.02	5,868.49	43.36	29.77	-95.74	1,637.21	1,289.67	324.34	258.87	65.48	4.953 SF		
6,500.00	6,000.77	6,118.48	5,957.95	44.26	29.99	-102.87	1,637.56	1,289.63	333.11	266.96	66.15	5.035		
6,600.00	6,089.38	6,206.27	6,045.74	45.15	30.22	-109.45	1,638.17	1,289.49	348.03	281.43	66.60	5.226		
6,700.00	6,177.99	6,297.32	6,136.78	46.05	30.45	-115.68	1,639.07	1,289.78	367.83	300.98	66.85	5.502		
6,800.00	6,266.60	6,386.51	6,225.97	46.94	30.67	-121.17	1,640.12	1,290.33	391.72	324.76	66.96	5.850		
6,900.00	6,355.21	6,476.44	6,315.89	47.84	30.90	-126.13	1,641.02	1,290.91	419.10	352.10	67.00	6.256		
7,000.00	6,443.82	6,572.67	6,412.09	48.74	31.15	-130.71	1,642.84	1,292.47	448.57	381.51	67.06	6.689		
7,100.00	6,532.43	6,655.67	6,495.07	49.63	31.36	-134.25	1,644.04	1,293.75	480.36	413.31	67.05	7.164		
7,200.00	6,621.04	6,745.10	6,584.49	50.53	31.59	-137.65	1,645.20	1,294.57	514.59	447.50	67.10	7.669		
7,300.00	6,709.65	6,837.55	6,676.92	51.42	31.83	-140.76	1,646.41	1,295.75	550.07	482.86	67.21	8.184		
7,400.00	6,798.26	6,930.54	6,769.89	52.32	32.05	-143.65	1,646.38	1,297.63	586.33	519.01	67.33	8.709		
7,500.00	6,886.87	7,019.91	6,841.25	53.22	32.24	-145.61	1,646.47	1,298.41	624.59	557.29	67.30	9.280		
7,600.00	6,975.48	7,085.32	6,924.65	54.12	32.47	-147.60	1,647.05	1,296.92	666.04	598.57	67.47	9.872		
7,656.30	7,025.36	7,141.07	6,980.39	54.62	32.62	-148.80	1,647.60	1,296.27	689.38	621.68	67.70	10.183		
7,700.00	7,064.54	7,179.95	7,019.26	55.00	32.73	-158.53	1,647.93	1,295.97	707.25	639.40	67.85	10.424		
7,750.00	7,110.29	7,226.60	7,065.92	55.40	32.86	-171.08	1,648.21	1,295.70	726.98	658.88	68.10	10.675		
7,800.00	7,156.67	7,274.16	7,113.47	55.75	32.99	-175.05	1,648.47	1,295.50	745.70	677.30	68.41	10.901		
7,850.00	7,203.34	7,322.13	7,161.44	56.05	33.12	-160.61	1,648.77	1,295.38	763.28	694.51	68.77	11.099		
7,900.00	7,249.95	7,370.89	7,210.20	56.30	33.26	-146.89	1,649.01	1,295.39	779.59	710.41	69.18	11.268		
7,950.00	7,296.14	7,419.37	7,258.68	56.50	33.39	-135.03	1,649.10	1,295.58	794.62	724.99	69.63	11.412		
8,000.00	7,341.56	7,463.70	7,303.01	56.64	33.50	-125.41	1,649.14	1,295.78	808.54	738.46	70.08	11.537		
8,050.00	7,385.86	7,507.41	7,346.72	56.74	33.62	-118.01	1,649.17	1,295.95	821.49	750.93	70.57	11.641		
8,100.00	7,428.71	7,550.04	7,389.35	56.79	33.73	-112.45	1,649.14	1,296.10	833.64	762.55	71.08	11.727		
8,150.00	7,469.77	7,591.04	7,430.35	56.80	33.83	-108.34	1,648.99	1,296.25	845.14	773.51	71.63	11.799		
8,200.00	7,508.75	7,630.36	7,469.66	56.77	33.93	-105.31	1,648.77	1,296.40	856.20	784.01	72.19	11.861		
8,250.00	7,545.33	7,667.33	7,506.63	56.70	34.03	-103.09	1,648.61	1,296.55	867.05	794.29	72.76	11.916		
8,300.00	7,579.25	7,701.66	7,540.96	56.59	34.11	-101.42	1,648.49	1,296.70	877.93	804.59	73.34	11.971		
8,350.00	7,610.24	7,733.66	7,572.97	56.45	34.20	-100.16	1,648.34	1,296.85	889.06	815.14	73.92	12.027		
8,400.00	7,638.06	7,762.63	7,601.93	56.28	34.27	-99.12	1,648.14	1,297.02	900.67	826.18	74.49	12.092		
8,450.00	7,662.52	7,788.31	7,627.61	56.09	34.34	-98.19	1,647.92	1,297.18	912.94	837.91	75.03	12.167		
8,500.00	7,683.41	7,809.17	7,648.47	55.88	34.39	-97.18	1,647.71	1,297.32	926.05	850.51	75.54	12.259		
8,550.00	7,700.59	7,826.09	7,665.39	55.64	34.43	-96.08	1,647.55	1,297.42	940.14	864.12	76.01	12.368		
8,600.00	7,713.91	7,839.30	7,678.60	55.39	34.47	-94.84	1,647.43	1,297.49	955.25	878.81	76.44	12.497		
8,650.00	7,723.29	7,848.71	7,688.01	55.14	34.49	-93.44	1,647.34	1,297.53	971.40	894.57	76.82	12.645		
8,700.00	7,728.64	7,854.26	7,693.56	54.87	34.50	-91.86	1,647.29	1,297.56	988.51	911.36	77.16	12.812		
8,740.83	7,730.00	7,855.91	7,695.20	54.65	34.51	-90.44	1,647.28	1,297.57	1,003.13	925.75	77.39	12.962		
8,800.00	7,730.00	7,856.41	7,695.70	54.33	34.51	-90.47	1,647.27	1,297.57	1,026.19	948.51	77.67	13.212		
8,900.00	7,730.00	7,857.25	7,696.55	53.82	34.51	-90.52	1,647.27	1,297.57	1,071.46	993.43	78.03	13.731		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,858.09	7,697.39	53.33	34.51	90.58	1,647.26	1,297.57	1,123.83	1,045.57	78.26	14.361		
9,100.00	7,730.00	7,858.93	7,698.23	52.87	34.52	90.63	1,647.25	1,297.58	1,182.36	1,103.97	78.38	15.084		
9,200.00	7,730.00	7,859.76	7,699.06	52.44	34.52	90.68	1,647.24	1,297.58	1,246.17	1,167.74	78.43	15.888		
9,300.00	7,730.00	7,860.59	7,699.89	52.03	34.52	90.73	1,647.24	1,297.58	1,314.50	1,236.07	78.42	16.761		
9,400.00	7,730.00	7,861.42	7,700.72	51.65	34.52	90.78	1,647.23	1,297.59	1,386.67	1,308.30	78.37	17.693		
9,500.00	7,730.00	7,862.25	7,701.55	51.29	34.52	90.83	1,647.22	1,297.59	1,462.13	1,383.84	78.30	18.674		
9,600.00	7,730.00	7,863.07	7,702.37	50.95	34.53	90.88	1,647.21	1,297.59	1,540.39	1,462.19	78.20	19.698		
9,700.00	7,730.00	7,863.89	7,703.19	50.64	34.53	90.93	1,647.21	1,297.60	1,621.03	1,542.95	78.09	20.759		
9,800.00	7,730.00	7,864.71	7,704.01	50.35	34.53	90.98	1,647.20	1,297.60	1,703.73	1,625.76	77.97	21.851		
9,900.00	7,730.00	7,865.53	7,704.82	50.09	34.53	91.03	1,647.19	1,297.60	1,788.20	1,710.35	77.85	22.970		
10,000.00	7,730.00	7,866.34	7,705.64	49.86	34.53	91.08	1,647.19	1,297.61	1,874.20	1,796.47	77.73	24.112		
10,100.00	7,730.00	7,867.15	7,706.45	49.65	34.54	91.13	1,647.18	1,297.61	1,961.52	1,883.92	77.61	25.275		
10,200.00	7,730.00	7,867.95	7,707.25	49.48	34.54	91.18	1,647.17	1,297.61	2,050.01	1,972.52	77.49	26.456		
10,300.00	7,730.00	7,868.76	7,708.06	49.35	34.54	91.23	1,647.17	1,297.62	2,139.50	2,062.13	77.37	27.652		
10,400.00	7,730.00	7,869.56	7,708.86	49.27	34.54	91.28	1,647.16	1,297.62	2,229.89	2,152.63	77.26	28.862		
10,500.00	7,730.00	7,870.36	7,709.66	49.26	34.55	91.33	1,647.15	1,297.62	2,321.07	2,243.92	77.15	30.083		
10,600.00	7,730.00	7,871.16	7,710.45	49.32	34.55	91.38	1,647.14	1,297.62	2,412.95	2,335.90	77.05	31.316		
10,700.00	7,730.00	7,871.95	7,711.25	49.51	34.55	91.43	1,647.14	1,297.63	2,505.45	2,428.49	76.95	32.557		
10,800.00	7,730.00	7,872.74	7,712.04	49.83	34.55	91.47	1,647.13	1,297.63	2,598.50	2,521.64	76.86	33.808		
10,900.00	7,730.00	7,873.53	7,712.82	50.31	34.55	91.52	1,647.12	1,297.63	2,692.06	2,615.28	76.77	35.065		
11,000.00	7,730.00	7,874.31	7,713.61	50.96	34.56	91.57	1,647.12	1,297.64	2,786.06	2,709.37	76.69	36.329		
11,100.00	7,730.00	7,875.10	7,714.39	51.75	34.56	91.62	1,647.11	1,297.64	2,880.46	2,803.85	76.61	37.599		
11,200.00	7,730.00	7,875.88	7,715.17	52.66	34.56	91.67	1,647.10	1,297.64	2,975.23	2,898.69	76.53	38.874		
11,300.00	7,730.00	7,876.65	7,715.95	53.67	34.56	91.71	1,647.10	1,297.64	3,070.33	2,993.87	76.46	40.154		
11,400.00	7,730.00	7,877.43	7,716.73	54.75	34.56	91.76	1,647.09	1,297.65	3,165.73	3,089.34	76.40	41.438		
11,500.00	7,730.00	7,878.20	7,717.50	55.89	34.56	91.81	1,647.08	1,297.65	3,261.41	3,185.08	76.33	42.726		
11,600.00	7,730.00	7,878.97	7,718.27	57.07	34.57	91.86	1,647.08	1,297.65	3,357.34	3,281.07	76.27	44.017		
11,700.00	7,730.00	7,879.74	7,719.04	58.30	34.57	91.90	1,647.07	1,297.65	3,453.50	3,377.28	76.22	45.311		
11,800.00	7,730.00	7,880.50	7,719.80	59.55	34.57	91.95	1,647.07	1,297.66	3,549.87	3,473.71	76.16	46.608		
11,900.00	7,730.00	7,881.27	7,720.56	60.84	34.57	92.00	1,647.06	1,297.66	3,646.44	3,570.33	76.11	47.907		
12,000.00	7,730.00	7,882.03	7,721.32	62.15	34.57	92.04	1,647.05	1,297.66	3,743.19	3,667.12	76.07	49.208		
12,100.00	7,730.00	7,882.78	7,722.08	63.49	34.58	92.09	1,647.05	1,297.66	3,840.10	3,764.08	76.02	50.511		
12,200.00	7,730.00	7,883.54	7,722.84	64.85	34.58	92.14	1,647.04	1,297.67	3,937.17	3,861.19	75.98	51.816		
12,300.00	7,730.00	7,884.29	7,723.59	66.22	34.58	92.18	1,647.03	1,297.67	4,034.38	3,958.44	75.95	53.122		
12,400.00	7,730.00	7,885.04	7,724.34	67.62	34.58	92.23	1,647.03	1,297.67	4,131.73	4,055.82	75.91	54.429		
12,500.00	7,730.00	7,885.79	7,725.09	69.03	34.58	92.27	1,647.02	1,297.67	4,229.19	4,153.32	75.88	55.737		
12,600.00	7,730.00	7,886.53	7,725.83	70.45	34.59	92.32	1,647.01	1,297.67	4,326.78	4,250.93	75.85	57.046		
12,700.00	7,730.00	7,887.28	7,726.57	71.90	34.59	92.37	1,647.01	1,297.68	4,424.47	4,348.65	75.82	58.356		
12,800.00	7,730.00	7,888.02	7,727.31	73.35	34.59	92.41	1,647.00	1,297.68	4,522.26	4,446.47	75.79	59.666		
12,900.00	7,730.00	7,888.76	7,728.05	74.81	34.59	92.46	1,647.00	1,297.68	4,620.15	4,544.38	75.77	60.977		
13,000.00	7,730.00	7,889.61	7,728.90	76.29	34.59	92.51	1,646.99	1,297.68	4,718.12	4,642.37	75.75	62.288		
13,100.00	7,730.00	7,890.52	7,729.82	77.78	34.60	92.56	1,646.98	1,297.69	4,816.18	4,740.45	75.73	63.599		
13,200.00	7,730.00	7,891.44	7,730.73	79.28	34.60	92.62	1,646.97	1,297.69	4,914.32	4,838.61	75.71	64.910		
13,300.00	7,730.00	7,892.36	7,731.65	80.79	34.60	92.68	1,646.97	1,297.69	5,012.53	4,936.83	75.69	66.221		
13,400.00	7,730.00	7,893.28	7,732.58	82.31	34.60	92.73	1,646.96	1,297.69	5,110.80	5,035.13	75.68	67.532		
13,500.00	7,730.00	7,894.21	7,733.51	83.84	34.61	92.79	1,646.95	1,297.70	5,209.15	5,133.48	75.67	68.843		
13,600.00	7,730.00	7,895.15	7,734.44	85.37	34.61	92.85	1,646.94	1,297.70	5,307.56	5,231.90	75.66	70.154		
13,700.00	7,730.00	7,896.09	7,735.38	86.92	34.61	92.90	1,646.93	1,297.70	5,406.02	5,330.37	75.65	71.464		
13,800.00	7,730.00	7,897.03	7,736.32	88.47	34.61	92.96	1,646.93	1,297.70	5,504.54	5,428.90	75.64	72.773		
13,900.00	7,730.00	7,897.98	7,737.27	90.03	34.62	93.02	1,646.92	1,297.71	5,603.11	5,527.48	75.63	74.082		
14,000.00	7,730.00	7,898.93	7,738.22	91.59	34.62	93.08	1,646.91	1,297.71	5,701.73	5,626.10	75.63	75.390		
14,100.00	7,730.00	7,899.88	7,739.18	93.16	34.62	93.14	1,646.90	1,297.71	5,800.40	5,724.77	75.63	76.698		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,900.84	7,740.14	94.74	34.62	93.20	1,646.89	1,297.71	5,899.11	5,823.49	75.62	78.005		
14,300.00	7,730.00	7,901.81	7,741.11	96.33	34.63	93.25	1,646.89	1,297.72	5,997.87	5,922.25	75.62	79.311		
14,400.00	7,730.00	7,902.78	7,742.08	97.92	34.63	93.31	1,646.88	1,297.72	6,096.67	6,021.04	75.63	80.616		
14,500.00	7,730.00	7,903.76	7,743.05	99.51	34.63	93.37	1,646.87	1,297.72	6,195.50	6,119.87	75.63	81.920		
14,600.00	7,730.00	7,904.73	7,744.03	101.11	34.63	93.43	1,646.86	1,297.72	6,294.37	6,218.74	75.63	83.223		
14,700.00	7,730.00	7,905.72	7,745.02	102.72	34.64	93.49	1,646.85	1,297.73	6,393.28	6,317.64	75.64	84.525		
14,800.00	7,730.00	7,906.71	7,746.00	104.33	34.64	93.55	1,646.84	1,297.73	6,492.22	6,416.57	75.64	85.826		
14,900.00	7,730.00	7,907.70	7,747.00	105.94	34.64	93.61	1,646.84	1,297.73	6,591.19	6,515.54	75.65	87.125		
15,000.00	7,730.00	7,908.70	7,748.00	107.56	34.64	93.68	1,646.83	1,297.73	6,690.19	6,614.53	75.66	88.424		
15,100.00	7,730.00	7,909.70	7,749.00	109.18	34.65	93.74	1,646.82	1,297.74	6,789.22	6,713.55	75.67	89.721		
15,200.00	7,730.00	7,910.71	7,750.01	110.81	34.65	93.80	1,646.81	1,297.74	6,888.28	6,812.60	75.68	91.016		
15,300.00	7,730.00	7,911.73	7,751.02	112.44	34.65	93.86	1,646.80	1,297.74	6,987.37	6,911.67	75.69	92.310		
15,400.00	7,730.00	7,912.74	7,752.04	114.08	34.65	93.92	1,646.79	1,297.74	7,086.48	7,010.77	75.71	93.603		
15,500.00	7,730.00	7,913.77	7,753.06	115.72	34.66	93.99	1,646.78	1,297.75	7,185.62	7,109.89	75.72	94.895		
15,600.00	7,730.00	7,914.80	7,754.09	117.36	34.66	94.05	1,646.77	1,297.75	7,284.77	7,209.04	75.74	96.184		
15,700.00	7,730.00	7,915.83	7,755.13	119.00	34.66	94.11	1,646.76	1,297.75	7,383.96	7,308.20	75.75	97.473		
15,800.00	7,730.00	7,916.87	7,756.16	120.65	34.66	94.17	1,646.76	1,297.75	7,483.16	7,407.39	75.77	98.759		
15,900.00	7,730.00	7,917.91	7,757.21	122.30	34.67	94.24	1,646.75	1,297.76	7,582.38	7,506.59	75.79	100.044		
16,000.00	7,730.00	7,918.96	7,758.26	123.96	34.67	94.30	1,646.74	1,297.76	7,681.63	7,605.82	75.81	101.327		
16,100.00	7,730.00	7,920.02	7,759.31	125.61	34.67	94.37	1,646.73	1,297.76	7,780.89	7,705.06	75.83	102.609		
16,200.00	7,730.00	7,921.07	7,760.37	127.27	34.67	94.43	1,646.72	1,297.77	7,880.17	7,804.32	75.85	103.889		
16,300.00	7,730.00	7,922.14	7,761.44	128.94	34.68	94.50	1,646.71	1,297.77	7,979.47	7,903.60	75.87	105.167		
16,400.00	7,730.00	7,923.21	7,762.51	130.60	34.68	94.56	1,646.70	1,297.77	8,078.79	8,002.89	75.90	106.443		
16,500.00	7,730.00	7,924.29	7,763.58	132.27	34.68	94.63	1,646.69	1,297.77	8,178.12	8,102.20	75.92	107.717		
16,600.00	7,730.00	7,925.37	7,764.66	133.94	34.69	94.69	1,646.68	1,297.78	8,277.47	8,201.53	75.95	108.989		
16,700.00	7,730.00	7,926.45	7,765.75	135.61	34.69	94.76	1,646.67	1,297.78	8,376.84	8,300.86	75.97	110.259		
16,800.00	7,730.00	7,927.55	7,766.84	137.28	34.69	94.83	1,646.66	1,297.78	8,476.22	8,400.22	76.00	111.528		
16,900.00	7,730.00	7,928.64	7,767.94	138.96	34.69	94.89	1,646.65	1,297.78	8,575.61	8,499.58	76.03	112.794		
17,000.00	7,730.00	7,929.75	7,769.04	140.64	34.70	94.96	1,646.64	1,297.79	8,675.02	8,598.96	76.06	114.058		
17,100.00	7,730.00	7,930.86	7,770.15	142.32	34.70	95.03	1,646.63	1,297.79	8,774.44	8,698.35	76.09	115.320		
17,200.00	7,730.00	7,931.97	7,771.26	144.00	34.70	95.10	1,646.62	1,297.79	8,873.88	8,797.76	76.12	116.580		
17,300.00	7,730.00	7,933.09	7,772.39	145.69	34.71	95.16	1,646.61	1,297.79	8,973.32	8,897.17	76.15	117.838		
17,400.00	7,730.00	7,934.22	7,773.51	147.37	34.71	95.23	1,646.60	1,297.80	9,072.78	8,996.60	76.18	119.094		
17,500.00	7,730.00	7,935.35	7,774.64	149.06	34.71	95.30	1,646.59	1,297.80	9,172.25	9,096.04	76.21	120.347		
17,600.00	7,730.00	7,936.49	7,775.78	150.75	34.71	95.37	1,646.58	1,297.80	9,271.73	9,195.48	76.25	121.599		
17,700.00	7,730.00	7,937.63	7,776.92	152.44	34.72	95.44	1,646.57	1,297.81	9,371.22	9,294.94	76.28	122.848		
17,800.00	7,730.00	7,938.78	7,778.07	154.13	34.72	95.51	1,646.56	1,297.81	9,470.73	9,394.41	76.32	124.095		
17,900.00	7,730.00	7,939.94	7,779.23	155.83	34.72	95.58	1,646.55	1,297.81	9,570.24	9,493.89	76.35	125.339		
18,000.00	7,730.00	7,941.10	7,780.39	157.52	34.73	95.65	1,646.53	1,297.81	9,669.76	9,593.37	76.39	126.581		
18,100.00	7,730.00	7,942.27	7,781.56	159.22	34.73	95.72	1,646.52	1,297.82	9,769.30	9,692.87	76.43	127.821		
18,200.00	7,730.00	7,943.44	7,782.73	160.92	34.73	95.79	1,646.51	1,297.82	9,868.84	9,792.37	76.47	129.058		
18,300.00	7,730.00	7,944.62	7,783.91	162.62	34.74	95.86	1,646.50	1,297.82	9,968.39	9,891.88	76.51	130.293		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.38	-2,062.14	2,182.52	3,002.93					
100.00	100.00	73.48	73.48	0.13	0.12	133.38	-2,062.05	2,182.35	3,002.49	3,002.23	0.25	N/A		
200.00	200.00	194.68	194.68	0.49	0.46	133.37	-2,061.24	2,181.61	3,001.59	3,000.63	0.95	3,147.889		
300.00	300.00	878.56	870.96	0.85	3.24	132.29	-1,973.41	2,169.22	2,995.93	2,991.91	4.01	746.739		
400.00	400.00	1,207.14	1,183.29	1.21	5.12	131.05	-1,873.51	2,151.52	2,969.88	2,963.99	5.89	504.419		
500.00	500.00	1,360.79	1,326.35	1.57	6.13	130.33	-1,818.28	2,142.10	2,940.88	2,933.88	7.00	420.182		
600.00	600.00	1,512.20	1,466.29	1.93	7.18	129.56	-1,761.32	2,132.33	2,911.02	2,902.89	8.14	357.749		
700.00	700.00	1,627.20	1,571.59	2.29	8.02	128.93	-1,715.80	2,124.26	2,879.43	2,870.31	9.12	315.845		
800.00	800.00	1,721.68	1,657.84	2.64	8.71	128.39	-1,677.78	2,117.90	2,847.83	2,837.83	10.00	284.679		
900.00	900.00	1,807.70	1,736.40	3.00	9.35	127.89	-1,643.26	2,111.73	2,816.25	2,805.40	10.86	259.428		
1,000.00	1,000.00	1,873.00	1,796.24	3.36	9.83	127.51	-1,617.51	2,107.36	2,785.67	2,774.07	11.60	240.092		
1,100.00	1,100.00	1,981.04	1,895.34	3.72	10.63	126.87	-1,575.07	2,100.22	2,755.53	2,742.94	12.59	218.839		
1,200.00	1,200.00	2,041.77	1,951.26	4.08	11.07	126.51	-1,551.75	2,096.02	2,725.89	2,712.57	13.32	204.580		
1,300.00	1,299.98	2,140.93	2,042.90	4.43	11.79	79.46	-1,514.53	2,088.95	2,696.64	2,682.38	14.26	189.090		
1,400.00	1,399.84	2,259.45	2,151.97	4.79	12.65	79.51	-1,468.98	2,080.30	2,666.26	2,650.95	15.31	174.175		
1,500.00	1,499.45	2,365.99	2,249.66	5.15	13.45	79.71	-1,427.30	2,072.01	2,634.59	2,618.29	16.30	161.630		
1,600.00	1,598.70	2,444.16	2,321.48	5.51	14.03	80.11	-1,397.04	2,065.79	2,602.59	2,585.45	17.14	151.825		
1,700.00	1,697.47	2,514.07	2,386.01	5.89	14.54	80.60	-1,370.72	2,060.31	2,570.81	2,552.87	17.94	143.305		
1,800.00	1,795.62	2,642.47	2,504.16	6.28	15.48	81.02	-1,321.34	2,051.10	2,538.61	2,519.55	19.06	133.179		
1,900.00	1,893.06	2,710.17	2,566.13	6.69	15.99	81.61	-1,294.43	2,046.87	2,505.68	2,485.78	19.90	125.907		
2,000.00	1,989.64	2,818.61	2,665.65	7.13	16.80	82.26	-1,251.95	2,039.69	2,472.43	2,451.47	20.96	117.937		
2,100.00	2,085.27	2,952.33	2,788.54	7.61	17.80	83.12	-1,200.57	2,027.92	2,437.47	2,415.33	22.15	110.052		
2,200.00	2,179.82	3,058.35	2,885.25	8.12	18.61	84.05	-1,158.14	2,018.60	2,401.19	2,377.96	23.23	103.361		
2,300.00	2,273.17	3,202.60	3,015.95	8.67	19.74	85.20	-1,098.53	2,005.61	2,363.76	2,339.22	24.54	96.340		
2,400.00	2,365.21	3,261.46	3,069.21	9.27	20.21	86.23	-1,074.05	2,000.13	2,325.50	2,300.03	25.46	91.335		
2,500.00	2,455.84	3,333.89	3,135.04	9.92	20.78	87.37	-1,044.54	1,993.74	2,288.06	2,261.57	26.48	86.397		
2,580.62	2,527.80	3,394.79	3,190.45	10.49	21.25	88.34	-1,019.77	1,988.76	2,258.30	2,230.95	27.34	82.585		
2,600.00	2,544.97	3,408.31	3,202.76	10.63	21.35	88.42	-1,014.29	1,987.71	2,251.22	2,223.67	27.55	81.713		
2,700.00	2,633.58	3,479.45	3,267.70	11.37	21.90	88.86	-985.72	1,982.44	2,215.32	2,186.69	28.63	77.370		
2,800.00	2,722.19	3,584.88	3,364.21	12.13	22.70	89.54	-944.08	1,974.20	2,179.77	2,149.90	29.87	72.976		
2,900.00	2,810.80	3,692.95	3,462.36	12.91	23.54	90.22	-899.65	1,965.84	2,143.38	2,112.24	31.14	68.832		
3,000.00	2,899.41	3,763.39	3,526.32	13.71	24.09	90.67	-870.56	1,960.87	2,107.60	2,075.32	32.28	65.297		
3,100.00	2,988.02	3,846.32	3,601.99	14.52	24.73	91.23	-837.14	1,954.95	2,072.64	2,039.18	33.46	61.942		
3,200.00	3,076.63	3,921.48	3,670.91	15.34	25.30	91.78	-807.68	1,949.36	2,038.44	2,003.83	34.61	58.896		
3,300.00	3,165.24	4,007.74	3,750.26	16.16	25.94	92.44	-774.43	1,943.13	2,005.10	1,969.29	35.80	56.008		
3,400.00	3,253.85	4,101.88	3,836.57	17.00	26.65	93.14	-737.33	1,937.07	1,971.98	1,934.96	37.02	53.264		
3,500.00	3,342.46	4,199.72	3,926.29	17.84	27.39	93.91	-698.89	1,930.38	1,938.96	1,900.71	38.25	50.692		
3,600.00	3,431.07	4,275.99	3,996.33	18.69	27.96	94.54	-669.21	1,924.82	1,906.23	1,866.83	39.41	48.373		
3,700.00	3,519.68	4,347.04	4,062.00	19.55	28.48	95.16	-642.55	1,919.86	1,874.96	1,834.42	40.54	46.247		
3,800.00	3,608.29	4,437.45	4,145.71	20.40	29.13	95.97	-608.92	1,913.86	1,844.54	1,802.83	41.71	44.218		
3,900.00	3,696.90	4,537.57	4,238.40	21.26	29.86	96.92	-571.79	1,906.61	1,814.19	1,771.30	42.89	42.298		
4,000.00	3,785.51	4,630.93	4,324.74	22.13	30.54	97.82	-536.92	1,899.90	1,784.12	1,740.07	44.05	40.506		
4,100.00	3,874.12	4,726.45	4,412.88	23.00	31.24	98.76	-500.73	1,893.07	1,754.09	1,708.89	45.20	38.810		
4,200.00	3,962.73	4,802.91	4,483.44	23.87	31.80	99.51	-471.66	1,888.30	1,724.95	1,678.63	46.32	37.238		
4,300.00	4,051.34	4,882.43	4,557.15	24.74	32.37	100.34	-442.28	1,883.18	1,696.98	1,649.55	47.43	35.779		
4,400.00	4,139.95	4,941.35	4,612.21	25.62	32.77	101.01	-421.74	1,878.91	1,670.67	1,622.19	48.48	34.461		
4,500.00	4,228.56	4,998.82	4,666.43	26.49	33.15	101.71	-403.14	1,874.78	1,646.89	1,597.39	49.50	33.270		
4,600.00	4,317.17	5,062.16	4,726.58	27.37	33.55	102.50	-383.75	1,870.61	1,625.48	1,574.99	50.49	32.191		
4,700.00	4,405.78	5,125.55	4,787.11	28.25	33.93	103.31	-365.29	1,866.92	1,606.40	1,554.94	51.46	31.215		
4,800.00	4,494.39	5,189.57	4,848.59	29.13	34.31	104.15	-347.75	1,863.52	1,589.71	1,537.31	52.40	30.338		
4,900.00	4,583.00	5,255.83	4,912.53	30.02	34.67	105.04	-330.69	1,860.29	1,575.38	1,522.07	53.31	29.550		
5,000.00	4,671.61	5,313.63	4,968.58	30.90	34.98	105.84	-316.79	1,857.81	1,563.61	1,509.44	54.17	28.864		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	5,364.00	5,017.68	31.79	35.23	106.54	-305.68	1,856.12	1,554.90	1,499.93	54.97	28.285		
5,200.00	4,848.83	5,423.30	5,075.78	32.67	35.50	107.38	-293.94	1,854.60	1,549.31	1,493.55	55.75	27.790		
5,300.00	4,937.44	5,478.21	5,129.85	33.56	35.74	108.18	-284.45	1,853.56	1,546.94	1,490.47	56.47	27.393		
5,325.16	4,959.74	5,492.40	5,143.86	33.78	35.79	108.38	-282.21	1,853.31	1,546.84	1,490.20	56.65	27.307		
5,400.00	5,026.05	5,534.41	5,185.42	34.45	35.95	109.01	-276.10	1,852.61	1,547.72	1,490.57	57.15	27.083		
5,500.00	5,114.66	5,596.83	5,247.34	35.34	36.18	109.94	-268.30	1,851.64	1,551.51	1,493.70	57.81	26.838		
5,600.00	5,203.27	5,662.27	5,312.39	36.23	36.40	110.93	-261.22	1,850.77	1,557.91	1,499.45	58.46	26.649		
5,700.00	5,291.88	5,727.22	5,377.07	37.12	36.60	111.93	-255.35	1,849.87	1,566.89	1,507.81	59.08	26.523		
5,800.00	5,380.50	5,783.10	5,432.80	38.01	36.75	112.79	-251.41	1,849.03	1,578.64	1,519.04	59.60	26.487		
5,900.00	5,469.11	5,836.00	5,485.64	38.90	36.89	113.61	-248.98	1,848.25	1,593.57	1,533.51	60.07	26.530		
6,000.00	5,557.72	5,907.26	5,556.86	39.79	37.05	114.72	-247.00	1,847.18	1,611.15	1,550.51	60.64	26.568		
6,100.00	5,646.33	5,977.47	5,627.05	40.68	37.20	115.81	-245.84	1,846.13	1,630.80	1,569.60	61.20	26.648		
6,200.00	5,734.94	6,054.55	5,704.12	41.58	37.35	116.97	-245.33	1,845.42	1,652.48	1,590.67	61.81	26.735		
6,300.00	5,823.55	6,147.83	5,797.40	42.47	37.53	118.35	-244.76	1,844.54	1,675.21	1,612.65	62.56	26.777		
6,400.00	5,912.16	6,242.40	5,891.96	43.36	37.72	119.70	-243.82	1,843.90	1,698.63	1,635.30	63.33	26.821		
6,500.00	6,000.77	6,334.42	5,983.97	44.26	37.92	120.98	-242.55	1,843.44	1,722.66	1,658.57	64.09	26.879		
6,600.00	6,089.38	6,420.09	6,069.64	45.15	38.10	122.14	-241.45	1,843.14	1,747.67	1,682.87	64.80	26.972		
6,700.00	6,177.99	6,513.57	6,163.11	46.05	38.30	123.36	-240.11	1,842.98	1,773.39	1,707.82	65.57	27.045		
6,800.00	6,266.60	6,598.65	6,248.18	46.94	38.49	124.46	-238.93	1,842.66	1,799.92	1,733.65	66.27	27.160		
6,900.00	6,355.21	6,682.96	6,332.48	47.84	38.67	125.51	-237.95	1,842.44	1,827.43	1,760.46	66.97	27.289		
7,000.00	6,443.82	6,774.75	6,424.26	48.74	38.87	126.63	-236.92	1,842.41	1,855.70	1,787.98	67.72	27.401		
7,100.00	6,532.43	6,863.94	6,513.45	49.63	39.07	127.68	-235.83	1,842.34	1,884.57	1,816.11	68.46	27.529		
7,200.00	6,621.04	6,952.91	6,602.41	50.53	39.27	128.71	-234.75	1,842.30	1,914.09	1,844.91	69.19	27.666		
7,300.00	6,709.65	7,034.13	6,683.63	51.42	39.44	129.62	-233.88	1,842.33	1,944.39	1,874.54	69.84	27.839		
7,400.00	6,798.26	7,125.06	6,774.56	52.32	39.64	130.60	-233.19	1,842.70	1,975.53	1,904.95	70.58	27.988		
7,500.00	6,886.87	7,215.21	6,864.70	53.22	39.84	131.53	-232.29	1,843.57	2,007.00	1,935.68	71.31	28.143		
7,600.00	6,975.48	7,303.17	6,952.64	54.12	40.04	132.40	-231.52	1,844.98	2,039.06	1,967.04	72.02	28.312		
7,656.30	7,025.36	7,353.82	7,003.28	54.62	40.15	132.87	-231.10	1,846.14	2,057.32	1,984.89	72.43	28.404		
7,700.00	7,064.54	7,391.27	7,040.71	55.00	40.23	125.99	-230.81	1,847.11	2,070.03	1,997.31	72.73	28.464		
7,750.00	7,110.29	7,435.34	7,084.77	55.40	40.32	116.28	-230.53	1,848.34	2,080.78	2,007.71	73.07	28.478		
7,800.00	7,156.67	7,476.47	7,125.88	55.75	40.41	104.70	-230.34	1,849.52	2,087.44	2,014.07	73.37	28.449		
7,850.00	7,203.34	7,517.17	7,166.56	56.05	40.50	92.10	-230.27	1,850.63	2,090.04	2,016.38	73.66	28.373		
7,900.00	7,249.95	7,557.37	7,206.75	56.30	40.58	79.78	-230.32	1,851.68	2,088.58	2,014.64	73.93	28.249		
7,950.00	7,296.14	7,596.86	7,246.22	56.50	40.66	68.94	-230.51	1,852.69	2,083.08	2,008.89	74.18	28.081		
8,000.00	7,341.56	7,635.28	7,284.63	56.64	40.74	60.11	-230.82	1,853.64	2,073.58	1,999.18	74.40	27.869		
8,050.00	7,385.86	7,669.66	7,319.00	56.74	40.81	53.22	-231.25	1,854.46	2,060.21	1,985.64	74.57	27.626		
8,100.00	7,428.71	7,703.07	7,352.39	56.79	40.87	48.02	-231.83	1,855.21	2,043.08	1,968.36	74.73	27.341		
8,150.00	7,469.77	7,738.20	7,387.51	56.80	40.94	44.21	-232.60	1,855.98	2,022.30	1,947.41	74.88	27.006		
8,200.00	7,508.75	7,777.68	7,426.97	56.77	41.02	41.56	-233.53	1,856.91	1,997.87	1,922.79	75.08	26.610		
8,250.00	7,545.33	7,814.96	7,464.22	56.70	41.09	39.81	-234.42	1,857.87	1,969.92	1,894.66	75.26	26.176		
8,300.00	7,579.25	7,843.11	7,492.36	56.59	41.14	38.73	-235.14	1,858.60	1,938.72	1,863.37	75.35	25.729		
8,350.00	7,610.24	7,868.04	7,517.27	56.45	41.19	38.33	-235.86	1,859.13	1,904.56	1,829.14	75.42	25.254		
8,400.00	7,638.06	7,890.68	7,539.90	56.28	41.23	38.62	-236.59	1,859.53	1,867.67	1,792.20	75.47	24.748		
8,450.00	7,662.52	7,914.00	7,563.20	56.09	41.27	39.75	-237.40	1,859.86	1,828.28	1,752.74	75.54	24.202		
8,500.00	7,683.41	7,929.64	7,578.83	55.88	41.30	41.64	-237.98	1,860.02	1,786.65	1,711.10	75.55	23.648		
8,550.00	7,700.59	7,945.63	7,594.80	55.64	41.33	44.78	-238.59	1,860.15	1,743.05	1,667.46	75.59	23.059		
8,600.00	7,713.91	7,958.47	7,607.64	55.39	41.35	49.55	-239.10	1,860.22	1,697.77	1,622.14	75.62	22.451		
8,650.00	7,723.29	7,968.06	7,617.22	55.14	41.37	56.75	-239.48	1,860.25	1,651.12	1,575.47	75.65	21.826		
8,700.00	7,728.64	7,974.31	7,623.46	54.87	41.38	67.65	-239.74	1,860.27	1,603.42	1,527.75	75.67	21.189		
8,740.83	7,730.00	7,976.89	7,626.04	54.65	41.39	80.36	-239.84	1,860.27	1,563.93	1,488.24	75.69	20.662		
8,800.00	7,730.00	7,978.96	7,628.11	54.33	41.39	80.68	-239.93	1,860.27	1,506.50	1,430.79	75.72	19.896		
8,900.00	7,730.00	7,982.51	7,631.65	53.82	41.40	81.22	-240.07	1,860.27	1,409.77	1,334.00	75.77	18.605		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,986.09	7,635.24	53.33	41.40	81.77	-240.22	1,860.27	1,313.52	1,237.68	75.84	17.319		
9,100.00	7,730.00	7,989.73	7,638.87	52.87	41.41	82.33	-240.37	1,860.27	1,217.86	1,141.93	75.93	16.039		
9,200.00	7,730.00	7,993.41	7,642.54	52.44	41.42	82.90	-240.53	1,860.27	1,122.94	1,046.90	76.04	14.768		
9,300.00	7,730.00	7,997.14	7,646.27	52.03	41.43	83.48	-240.69	1,860.26	1,028.97	952.79	76.17	13.508		
9,400.00	7,730.00	8,000.91	7,650.04	51.65	41.43	84.06	-240.85	1,860.25	936.23	859.88	76.35	12.263		
9,500.00	7,730.00	8,004.74	7,653.86	51.29	41.44	84.66	-241.01	1,860.23	845.13	768.56	76.57	11.037		
9,600.00	7,730.00	8,008.62	7,657.74	50.95	41.45	85.26	-241.18	1,860.22	756.26	679.40	76.86	9.839		
9,700.00	7,730.00	8,012.55	7,661.66	50.64	41.45	85.87	-241.35	1,860.20	670.50	593.26	77.24	8.681		
9,800.00	7,730.00	8,016.23	7,665.34	50.35	41.46	86.45	-241.51	1,860.18	589.23	511.50	77.73	7.580		
9,900.00	7,730.00	8,020.15	7,669.26	50.09	41.47	87.06	-241.69	1,860.15	514.57	436.18	78.39	6.565		
10,000.00	7,730.00	8,024.16	7,673.26	49.86	41.47	87.69	-241.87	1,860.12	449.81	370.58	79.22	5.678		
10,100.00	7,730.00	8,028.26	7,677.36	49.65	41.48	88.33	-242.06	1,860.09	399.80	319.57	80.22	4.984		
10,200.00	7,730.00	8,032.45	7,681.55	49.48	41.49	88.99	-242.25	1,860.05	370.55	289.34	81.21	4.563		
10,262.86	7,730.00	8,035.14	7,684.23	49.39	41.49	89.41	-242.37	1,860.02	365.20	283.55	81.65	4.473 CC, ES, SF		
10,300.00	7,730.00	8,036.75	7,685.84	49.35	41.50	89.66	-242.45	1,860.01	367.08	285.32	81.76	4.490		
10,400.00	7,730.00	8,041.14	7,690.23	49.27	41.50	90.35	-242.66	1,859.96	390.05	308.57	81.48	4.787		
10,500.00	7,730.00	8,045.64	7,694.72	49.26	41.51	91.05	-242.87	1,859.90	435.30	354.75	80.55	5.404		
10,600.00	7,730.00	8,050.25	7,699.33	49.32	41.52	91.78	-243.09	1,859.84	496.79	417.33	79.45	6.253		
10,700.00	7,730.00	8,054.97	7,704.04	49.51	41.53	92.51	-243.32	1,859.77	569.26	490.79	78.47	7.254		
10,800.00	7,730.00	8,059.81	7,708.87	49.83	41.54	93.27	-243.56	1,859.69	649.05	571.35	77.70	8.353		
10,900.00	7,730.00	8,064.77	7,713.83	50.31	41.55	94.04	-243.81	1,859.61	733.78	656.66	77.12	9.515		
11,000.00	7,730.00	8,069.86	7,718.90	50.96	41.56	94.83	-244.07	1,859.52	821.92	745.23	76.69	10.718		
11,100.00	7,730.00	8,075.07	7,724.11	51.75	41.56	95.64	-244.34	1,859.42	912.48	836.11	76.37	11.949		
11,200.00	7,730.00	8,080.42	7,729.46	52.66	41.57	96.46	-244.62	1,859.31	1,004.80	928.68	76.12	13.200		
11,300.00	7,730.00	8,085.92	7,734.94	53.67	41.58	97.31	-244.90	1,859.19	1,098.44	1,022.51	75.94	14.465		
11,400.00	7,730.00	8,091.56	7,740.57	54.75	41.59	98.17	-245.21	1,859.06	1,193.09	1,117.30	75.79	15.742		
11,500.00	7,730.00	8,097.35	7,746.35	55.89	41.60	99.05	-245.52	1,858.92	1,288.53	1,212.85	75.68	17.026		
11,600.00	7,730.00	8,103.66	7,752.65	57.07	41.62	100.01	-245.87	1,858.76	1,384.58	1,309.00	75.58	18.318		
11,700.00	7,730.00	8,118.22	7,767.18	58.30	41.64	102.18	-246.71	1,858.43	1,481.12	1,405.68	75.44	19.634		
11,800.00	7,730.00	8,135.57	7,784.50	59.55	41.67	104.73	-247.80	1,858.13	1,578.03	1,502.74	75.28	20.961		
11,900.00	7,730.00	8,156.63	7,805.50	60.84	41.70	107.74	-249.27	1,857.92	1,675.22	1,600.10	75.12	22.300		
12,000.00	7,730.00	8,182.68	7,831.48	62.15	41.74	111.34	-251.29	1,857.89	1,772.63	1,697.69	74.94	23.653		
12,100.00	7,730.00	8,215.76	7,864.42	63.49	41.80	115.68	-254.18	1,858.23	1,870.19	1,795.46	74.73	25.027		
12,200.00	7,730.00	8,253.52	7,901.99	64.85	41.84	120.32	-257.89	1,859.23	1,967.83	1,893.33	74.49	26.416		
12,300.00	7,730.00	8,304.30	7,952.40	66.22	41.91	126.03	-263.57	1,861.56	2,065.46	1,991.27	74.20	27.838		
12,400.00	7,730.00	12,400.00	7,915.22	67.62	47.48	121.90	-259.58	1,860.12	2,163.10	2,078.24	84.87	25.488		
12,500.00	7,730.00	8,292.00	7,940.20	69.03	41.89	124.70	-262.12	1,860.89	2,261.22	2,186.77	74.45	30.373		
12,600.00	7,730.00	8,292.00	7,940.20	70.45	41.89	124.70	-262.12	1,860.89	2,359.37	2,284.84	74.52	31.659		
12,700.00	7,730.00	8,292.00	7,940.20	71.90	41.89	124.70	-262.12	1,860.89	2,457.66	2,383.06	74.60	32.946		
12,800.00	7,730.00	8,316.43	7,964.46	73.35	41.93	127.29	-264.79	1,862.11	2,555.80	2,481.26	74.53	34.292		
12,900.00	7,730.00	8,320.48	7,968.48	74.81	41.94	127.71	-265.20	1,862.30	2,654.24	2,579.66	74.58	35.588		
13,000.00	7,730.00	8,324.35	7,972.32	76.29	41.94	128.10	-265.59	1,862.48	2,752.78	2,678.15	74.63	36.884		
13,100.00	7,730.00	8,328.06	7,976.01	77.78	41.95	128.47	-265.95	1,862.65	2,851.42	2,776.73	74.68	38.179		
13,200.00	7,730.00	8,331.62	7,979.55	79.28	41.95	128.82	-266.28	1,862.81	2,950.13	2,875.39	74.74	39.474		
13,300.00	7,730.00	8,335.03	7,982.94	80.79	41.96	129.16	-266.60	1,862.97	3,048.91	2,974.13	74.79	40.769		
13,400.00	7,730.00	8,338.31	7,986.21	82.31	41.96	129.48	-266.90	1,863.11	3,147.77	3,072.93	74.84	42.062		
13,500.00	7,730.00	8,341.46	7,989.34	83.84	41.97	129.79	-267.18	1,863.25	3,246.68	3,171.79	74.89	43.355		
13,600.00	7,730.00	8,344.49	7,992.36	85.37	41.97	130.08	-267.45	1,863.38	3,345.65	3,270.71	74.94	44.647		
13,700.00	7,730.00	8,347.41	7,995.26	86.92	41.97	130.36	-267.70	1,863.51	3,444.67	3,369.69	74.98	45.938		
13,800.00	7,730.00	8,350.22	7,998.06	88.47	41.98	130.62	-267.94	1,863.63	3,543.74	3,468.71	75.03	47.229		
13,900.00	7,730.00	8,352.93	8,000.76	90.03	41.98	130.88	-268.16	1,863.74	3,642.86	3,567.77	75.08	48.518		
14,000.00	7,730.00	8,355.55	8,003.36	91.59	41.99	131.12	-268.37	1,863.85	3,742.01	3,666.88	75.13	49.807		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	93.16	42.03	133.83	-270.58	1,865.02	3,841.53	3,766.44	75.09	51.157		
14,200.00	7,730.00	8,386.00	8,033.72	94.74	42.03	133.83	-270.58	1,865.02	3,940.70	3,865.55	75.15	52.436		
14,300.00	7,730.00	8,386.00	8,033.72	96.33	42.03	133.83	-270.58	1,865.02	4,039.92	3,964.71	75.21	53.715		
14,400.00	7,730.00	8,386.00	8,033.72	97.92	42.03	133.83	-270.58	1,865.02	4,139.17	4,063.90	75.27	54.994		
14,500.00	7,730.00	8,386.00	8,033.72	99.51	42.03	133.83	-270.58	1,865.02	4,238.46	4,163.14	75.32	56.272		
14,600.00	7,730.00	8,386.00	8,033.72	101.11	42.03	133.83	-270.58	1,865.02	4,337.78	4,262.40	75.38	57.548		
14,700.00	7,730.00	8,386.00	8,033.72	102.72	42.03	133.83	-270.58	1,865.02	4,437.13	4,361.70	75.43	58.824		
14,800.00	7,730.00	8,386.00	8,033.72	104.33	42.03	133.83	-270.58	1,865.02	4,536.51	4,461.02	75.48	60.099		
14,900.00	7,730.00	8,386.00	8,033.72	105.94	42.03	133.83	-270.58	1,865.02	4,635.91	4,560.38	75.54	61.373		
15,000.00	7,730.00	8,386.00	8,033.72	107.56	42.03	133.83	-270.58	1,865.02	4,735.34	4,659.76	75.59	62.646		
15,100.00	7,730.00	8,386.00	8,033.72	109.18	42.03	133.83	-270.58	1,865.02	4,834.80	4,759.16	75.64	63.918		
15,200.00	7,730.00	8,386.00	8,033.72	110.81	42.03	133.83	-270.58	1,865.02	4,934.27	4,858.58	75.69	65.189		
15,300.00	7,730.00	8,386.00	8,033.72	112.44	42.03	133.83	-270.58	1,865.02	5,033.77	4,958.03	75.74	66.458		
15,400.00	7,730.00	8,386.00	8,033.72	114.08	42.03	133.83	-270.58	1,865.02	5,133.29	5,057.49	75.79	67.727		
15,500.00	7,730.00	8,386.00	8,033.72	115.72	42.03	133.83	-270.58	1,865.02	5,232.82	5,156.98	75.84	68.994		
15,600.00	7,730.00	8,386.00	8,033.72	117.36	42.03	133.83	-270.58	1,865.02	5,332.38	5,256.48	75.90	70.260		
15,700.00	7,730.00	8,386.00	8,033.72	119.00	42.03	133.83	-270.58	1,865.02	5,431.95	5,356.00	75.95	71.524		
15,800.00	7,730.00	8,386.00	8,033.72	120.65	42.03	133.83	-270.58	1,865.02	5,531.53	5,455.53	76.00	72.787		
15,900.00	7,730.00	8,386.00	8,033.72	122.30	42.03	133.83	-270.58	1,865.02	5,631.13	5,555.08	76.05	74.049		
16,000.00	7,730.00	8,386.00	8,033.72	123.96	42.03	133.83	-270.58	1,865.02	5,730.74	5,654.65	76.10	75.309		
16,100.00	7,730.00	8,386.00	8,033.72	125.61	42.03	133.83	-270.58	1,865.02	5,830.37	5,754.22	76.15	76.568		
16,200.00	7,730.00	8,386.00	8,033.72	127.27	42.03	133.83	-270.58	1,865.02	5,930.01	5,853.81	76.20	77.825		
16,300.00	7,730.00	8,408.46	8,056.12	128.94	42.07	135.70	-271.96	1,865.82	6,029.56	5,953.34	76.22	79.107		
16,400.00	7,730.00	8,411.04	8,058.70	130.60	42.08	135.90	-272.11	1,865.91	6,129.20	6,052.94	76.27	80.364		
16,500.00	7,730.00	8,413.58	8,061.23	132.27	42.08	136.10	-272.26	1,865.99	6,228.85	6,152.54	76.32	81.618		
16,600.00	7,730.00	8,416.07	8,063.71	133.94	42.09	136.30	-272.40	1,866.08	6,328.51	6,252.14	76.37	82.871		
16,700.00	7,730.00	8,418.52	8,066.15	135.61	42.09	136.49	-272.54	1,866.16	6,428.18	6,351.76	76.42	84.121		
16,800.00	7,730.00	8,420.92	8,068.55	137.28	42.09	136.68	-272.68	1,866.25	6,527.85	6,451.39	76.47	85.370		
16,900.00	7,730.00	8,423.28	8,070.91	138.96	42.10	136.86	-272.81	1,866.33	6,627.53	6,551.02	76.52	86.617		
17,000.00	7,730.00	8,425.61	8,073.23	140.64	42.10	137.04	-272.94	1,866.41	6,727.22	6,650.66	76.57	87.862		
17,100.00	7,730.00	8,427.89	8,075.50	142.32	42.11	137.22	-273.07	1,866.48	6,826.92	6,750.30	76.62	89.105		
17,200.00	7,730.00	8,430.13	8,077.74	144.00	42.11	137.39	-273.19	1,866.56	6,926.62	6,849.96	76.67	90.346		
17,300.00	7,730.00	8,432.34	8,079.94	145.69	42.11	137.55	-273.31	1,866.63	7,026.34	6,949.62	76.72	91.585		
17,400.00	7,730.00	8,434.51	8,082.11	147.37	42.12	137.72	-273.43	1,866.71	7,126.05	7,049.28	76.77	92.822		
17,500.00	7,730.00	8,436.64	8,084.24	149.06	42.12	137.88	-273.54	1,866.78	7,225.78	7,148.95	76.82	94.057		
17,600.00	7,730.00	8,438.74	8,086.33	150.75	42.13	138.03	-273.65	1,866.85	7,325.51	7,248.63	76.88	95.290		
17,700.00	7,730.00	8,440.81	8,088.40	152.44	42.13	138.19	-273.76	1,866.92	7,425.24	7,348.31	76.93	96.521		
17,800.00	7,730.00	8,442.84	8,090.42	154.13	42.13	138.33	-273.87	1,866.98	7,524.98	7,448.00	76.98	97.750		
17,900.00	7,730.00	8,444.84	8,092.42	155.83	42.14	138.48	-273.97	1,867.05	7,624.73	7,547.69	77.04	98.976		
18,000.00	7,730.00	8,446.81	8,094.38	157.52	42.14	138.62	-274.07	1,867.12	7,724.48	7,647.39	77.09	100.201		
18,100.00	7,730.00	8,448.74	8,096.32	159.22	42.14	138.76	-274.17	1,867.18	7,824.23	7,747.09	77.14	101.423		
18,200.00	7,730.00	8,450.65	8,098.22	160.92	42.15	138.90	-274.27	1,867.24	7,924.00	7,846.80	77.20	102.643		
18,300.00	7,730.00	8,452.53	8,100.09	162.62	42.15	139.04	-274.36	1,867.30	8,023.76	7,946.51	77.25	103.861		
18,400.00	7,730.00	8,454.38	8,101.94	164.32	42.15	139.17	-274.45	1,867.36	8,123.53	8,046.22	77.31	105.077		
18,426.22	7,730.00	8,481.00	8,128.52	164.76	42.20	140.99	-275.70	1,868.21	8,149.81	8,072.49	77.31	105.411		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	70.21	772.02	2,145.87	2,280.89								
100.00	100.00	61.73	61.73	0.13	0.10	70.22	771.81	2,145.91	2,280.49	2,280.25	0.23	9,757.870					
200.00	200.00	166.44	166.43	0.49	0.36	70.25	770.65	2,146.08	2,280.27	2,279.42	0.85	2,688.359					
300.00	300.00	270.16	270.15	0.85	0.73	70.26	769.88	2,145.90	2,279.85	2,278.27	1.58	1,444.903					
400.00	400.00	360.05	360.03	1.21	1.05	70.28	769.32	2,145.74	2,279.48	2,277.23	2.26	1,010.215					
406.11	406.11	365.12	365.11	1.23	1.06	70.28	769.28	2,145.75	2,279.48	2,277.19	2.30	992.648					
500.00	500.00	451.20	451.18	1.57	1.37	70.29	768.78	2,146.16	2,279.71	2,276.77	2.94	776.182					
600.00	600.00	539.85	539.83	1.93	1.68	70.30	768.55	2,146.72	2,280.23	2,276.62	3.61	632.189					
700.00	700.00	632.28	632.25	2.29	2.01	70.32	768.30	2,147.90	2,281.33	2,277.04	4.29	531.737					
800.00	800.00	729.43	729.39	2.64	2.35	70.33	768.08	2,149.22	2,282.53	2,277.54	4.99	457.357					
900.00	900.00	832.21	832.17	3.00	2.71	70.34	768.24	2,150.58	2,283.84	2,278.13	5.71	399.885					
1,000.00	1,000.00	947.66	947.61	3.36	3.11	70.34	768.66	2,151.50	2,284.72	2,278.24	6.47	353.073					
1,100.00	1,100.00	1,051.76	1,051.70	3.72	3.46	70.31	769.93	2,151.49	2,285.11	2,277.93	7.18	318.143					
1,200.00	1,200.00	1,135.97	1,135.90	4.08	3.75	70.28	771.15	2,151.66	2,285.79	2,277.96	7.83	291.917					
1,300.00	1,299.98	1,236.80	1,236.72	4.43	4.10	23.15	772.52	2,151.98	2,284.94	2,276.40	8.54	267.706					
1,400.00	1,399.84	1,296.40	1,296.30	4.79	4.31	23.18	774.02	2,152.62	2,281.98	2,272.89	9.09	250.924					
1,500.00	1,499.45	1,355.90	1,355.72	5.15	4.52	23.21	776.63	2,153.97	2,277.59	2,267.94	9.65	235.953					
1,600.00	1,598.70	1,409.00	1,408.69	5.51	4.71	23.26	779.89	2,155.79	2,271.78	2,261.59	10.19	223.011					
1,700.00	1,697.47	1,478.38	1,477.79	5.89	4.95	23.33	785.21	2,159.04	2,264.42	2,253.64	10.78	209.984					
1,800.00	1,795.62	1,537.66	1,536.72	6.28	5.17	23.42	790.51	2,162.64	2,255.56	2,244.21	11.34	198.816					
1,900.00	1,893.06	1,598.00	1,596.57	6.69	5.39	23.53	796.65	2,167.27	2,245.36	2,233.45	11.91	188.480					
2,000.00	1,989.64	1,657.19	1,655.14	7.13	5.61	23.67	803.19	2,172.73	2,233.75	2,221.26	12.48	178.942					
2,100.00	2,085.27	1,721.62	1,718.77	7.61	5.86	23.85	810.67	2,179.61	2,220.56	2,207.48	13.08	169.742					
2,200.00	2,179.82	1,787.00	1,783.15	8.12	6.11	24.06	819.03	2,187.32	2,205.70	2,192.01	13.69	161.063					
2,300.00	2,273.17	1,846.20	1,841.27	8.67	6.35	24.29	827.14	2,195.13	2,189.33	2,175.03	14.29	153.164					
2,400.00	2,365.21	1,910.50	1,904.19	9.27	6.62	24.58	836.30	2,204.72	2,171.59	2,156.66	14.93	145.461					
2,500.00	2,455.84	1,975.00	1,967.15	9.92	6.89	24.90	845.78	2,215.01	2,152.01	2,136.43	15.58	138.116					
2,580.62	2,527.80	2,022.53	2,013.42	10.49	7.10	25.19	852.68	2,223.35	2,135.19	2,119.09	16.10	132.614					
2,600.00	2,544.97	2,032.45	2,023.07	10.63	7.14	25.22	854.07	2,225.23	2,131.11	2,114.89	16.22	131.380					
2,700.00	2,633.58	2,088.78	2,077.67	11.37	7.39	25.44	861.65	2,236.77	2,111.35	2,094.49	16.87	125.187					
2,800.00	2,722.19	2,164.00	2,150.40	12.13	7.74	25.76	870.86	2,253.63	2,093.18	2,075.57	17.61	118.831					
2,900.00	2,810.80	2,236.89	2,220.73	12.91	8.08	26.12	878.49	2,271.19	2,076.20	2,057.83	18.37	113.042					
3,000.00	2,899.41	2,308.16	2,289.35	13.71	8.42	26.52	884.86	2,289.35	2,060.36	2,041.23	19.13	107.727					
3,100.00	2,988.02	2,378.42	2,356.73	14.52	8.77	26.91	891.39	2,308.16	2,046.01	2,026.12	19.89	102.851					
3,200.00	3,076.63	2,449.00	2,424.19	15.34	9.13	27.32	897.82	2,327.89	2,033.02	2,012.34	20.68	98.329					
3,300.00	3,165.24	2,505.45	2,477.86	16.16	9.44	27.65	903.27	2,344.52	2,021.85	2,000.46	21.39	94.502					
3,400.00	3,253.85	2,572.58	2,541.19	17.00	9.81	28.02	910.69	2,365.49	2,012.88	1,990.69	22.18	90.750					
3,500.00	3,342.46	2,679.27	2,641.74	17.84	10.43	28.63	921.94	2,399.35	2,004.59	1,981.38	23.21	86.374					
3,600.00	3,431.07	2,795.54	2,751.69	18.69	11.11	29.31	934.10	2,435.15	1,995.47	1,971.16	24.31	82.090					
3,700.00	3,519.68	2,893.48	2,844.39	19.55	11.69	29.85	945.28	2,464.71	1,986.19	1,960.87	25.32	78.447					
3,800.00	3,608.29	2,989.65	2,935.38	20.40	12.27	30.38	956.38	2,493.81	1,977.20	1,950.86	26.34	75.078					
3,900.00	3,696.90	3,073.67	3,014.80	21.26	12.79	30.86	966.05	2,519.46	1,968.66	1,941.37	27.30	72.123					
4,000.00	3,785.51	3,167.45	3,103.19	22.13	13.38	31.37	977.40	2,548.65	1,961.02	1,932.69	28.33	69.225					
4,100.00	3,874.12	3,277.24	3,206.82	23.00	14.07	31.99	990.43	2,582.49	1,953.22	1,923.75	29.47	66.274					
4,200.00	3,962.73	3,391.48	3,315.00	23.87	14.78	32.68	1,002.64	2,617.13	1,944.89	1,914.23	30.66	63.436					
4,300.00	4,051.34	3,477.92	3,396.87	24.74	15.33	33.19	1,012.29	2,643.13	1,936.61	1,904.92	31.69	61.102					
4,400.00	4,139.95	3,574.87	3,488.53	25.62	15.95	33.74	1,023.80	2,672.52	1,928.87	1,896.06	32.81	58.794					
4,500.00	4,228.56	3,696.77	3,604.09	26.49	16.72	34.45	1,038.06	2,708.60	1,920.54	1,886.46	34.08	56.346					
4,600.00	4,317.17	3,787.68	3,690.39	27.37	17.30	35.01	1,048.02	2,735.40	1,912.21	1,877.02	35.19	54.335					
4,700.00	4,405.78	3,893.93	3,791.29	28.25	17.97	35.64	1,060.14	2,766.40	1,903.85	1,867.44	36.41	52.293					
4,800.00	4,494.39	3,982.59	3,875.51	29.13	18.53	36.19	1,069.76	2,792.39	1,895.78	1,858.24	37.53	50.510					
4,900.00	4,583.00	4,073.64	3,961.80	30.02	19.12	36.76	1,079.89	2,819.63	1,888.55	1,849.86	38.69	48.815					

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	4,671.61	4,204.79	4,086.30	30.90	19.95	37.52	1,096.20	2,857.47	1,880.57	1,840.47	40.10	46.899		
5,100.00	4,760.22	4,298.48	4,175.57	31.79	20.54	38.09	1,107.29	2,883.68	1,871.87	1,830.58	41.30	45.328		
5,200.00	4,848.83	4,388.09	4,260.88	32.67	21.11	38.68	1,116.63	2,909.45	1,864.06	1,821.57	42.49	43.868		
5,300.00	4,937.44	4,497.05	4,364.58	33.56	21.80	39.37	1,128.75	2,940.61	1,856.40	1,812.58	43.82	42.364		
5,400.00	5,026.05	4,582.82	4,446.24	34.45	22.34	39.91	1,138.77	2,964.85	1,848.65	1,803.63	45.02	41.063		
5,500.00	5,114.66	4,692.88	4,550.61	35.34	23.05	40.54	1,153.51	2,996.50	1,841.73	1,795.35	46.38	39.712		
5,600.00	5,203.27	4,823.70	4,675.56	36.23	23.87	41.38	1,168.73	3,032.14	1,833.32	1,785.44	47.88	38.288		
5,700.00	5,291.88	4,933.96	4,781.40	37.12	24.52	42.17	1,178.79	3,061.35	1,824.43	1,775.15	49.28	37.019		
5,800.00	5,380.50	5,075.96	4,918.67	38.01	25.33	43.26	1,190.42	3,095.79	1,813.38	1,762.50	50.88	35.640		
5,900.00	5,469.11	5,318.43	5,156.00	38.90	26.53	45.30	1,206.20	3,142.29	1,797.61	1,744.75	52.86	34.005		
6,000.00	5,557.72	5,554.41	5,390.13	39.79	27.45	47.61	1,215.08	3,169.66	1,775.77	1,721.23	54.54	32.557		
6,100.00	5,646.33	5,757.21	5,592.75	40.68	28.04	49.94	1,217.02	3,176.77	1,746.18	1,690.21	55.96	31.202		
6,200.00	5,734.94	5,850.65	5,686.19	41.58	28.28	51.08	1,217.73	3,177.41	1,715.24	1,657.86	57.38	29.892		
6,300.00	5,823.55	5,930.39	5,765.93	42.47	28.49	52.08	1,218.41	3,178.07	1,685.08	1,626.24	58.84	28.638		
6,400.00	5,912.16	6,018.51	5,854.04	43.36	28.73	53.21	1,219.26	3,179.09	1,655.89	1,595.57	60.32	27.450		
6,500.00	6,000.77	6,112.91	5,948.42	44.26	28.98	54.45	1,220.41	3,180.10	1,627.31	1,565.48	61.83	26.319		
6,600.00	6,089.38	6,207.83	6,043.33	45.15	29.24	55.75	1,221.50	3,180.76	1,599.16	1,535.80	63.36	25.238		
6,700.00	6,177.99	6,300.87	6,136.37	46.05	29.49	57.06	1,222.47	3,181.09	1,571.53	1,506.60	64.93	24.204		
6,800.00	6,266.60	6,388.29	6,223.79	46.94	29.72	58.35	1,223.01	3,181.24	1,544.67	1,478.14	66.53	23.218		
6,900.00	6,355.21	6,475.66	6,311.16	47.84	29.95	59.69	1,223.15	3,181.43	1,518.85	1,450.68	68.16	22.282		
7,000.00	6,443.82	6,556.49	6,391.98	48.74	30.17	60.95	1,223.55	3,181.83	1,494.18	1,424.35	69.83	21.399		
7,100.00	6,532.43	6,643.33	6,478.81	49.63	30.41	62.34	1,223.83	3,182.83	1,471.10	1,399.60	71.50	20.573		
7,200.00	6,621.04	6,738.01	6,573.49	50.53	30.67	63.89	1,224.14	3,183.43	1,448.64	1,375.44	73.20	19.789		
7,300.00	6,709.65	6,826.74	6,662.22	51.42	30.92	65.38	1,224.83	3,184.16	1,427.32	1,352.41	74.92	19.052		
7,400.00	6,798.26	6,920.21	6,755.68	52.32	31.18	66.96	1,226.12	3,184.92	1,406.94	1,330.30	76.63	18.359		
7,500.00	6,886.87	7,014.03	6,849.49	53.22	31.44	68.60	1,227.24	3,185.34	1,387.48	1,309.12	78.36	17.706		
7,600.00	6,975.48	7,109.48	6,944.94	54.12	31.71	70.32	1,228.15	3,185.19	1,368.85	1,288.75	80.10	17.090		
7,656.30	7,025.36	7,162.47	6,997.92	54.62	31.85	71.29	1,228.90	3,185.03	1,358.76	1,277.69	81.07	16.761		
7,700.00	7,064.54	7,201.76	7,037.20	55.00	31.96	72.08	1,229.57	3,184.91	1,350.30	1,268.51	81.79	16.510		
7,750.00	7,110.29	7,247.19	7,082.63	55.40	32.08	73.69	1,230.30	3,184.77	1,338.76	1,256.25	82.51	16.225		
7,800.00	7,156.67	7,291.57	7,127.00	55.75	32.21	75.11	1,230.96	3,184.65	1,325.23	1,242.10	83.13	15.941		
7,850.00	7,203.34	7,335.51	7,170.94	56.05	32.33	76.13	1,231.56	3,184.59	1,309.76	1,226.12	83.65	15.659		
7,900.00	7,249.95	7,379.66	7,215.09	56.30	32.45	77.14	1,232.09	3,184.60	1,292.40	1,208.36	84.04	15.378		
7,950.00	7,296.14	7,423.62	7,259.04	56.50	32.58	-0.01	1,232.55	3,184.65	1,273.21	1,188.89	84.32	15.100		
8,000.00	7,341.56	7,466.56	7,301.98	56.64	32.70	-11.50	1,232.90	3,184.73	1,252.34	1,167.86	84.48	14.825		
8,050.00	7,385.86	7,508.13	7,343.56	56.74	32.81	-21.49	1,233.05	3,184.81	1,229.96	1,145.45	84.51	14.554		
8,100.00	7,428.71	7,548.91	7,384.33	56.79	32.92	-30.28	1,233.00	3,184.88	1,206.31	1,121.89	84.42	14.290		
8,150.00	7,469.77	7,590.59	7,426.01	56.80	33.03	-38.26	1,232.83	3,184.91	1,181.59	1,097.40	84.19	14.035		
8,200.00	7,508.75	7,630.21	7,465.63	56.77	33.14	-45.64	1,232.60	3,184.89	1,156.09	1,072.27	83.81	13.793		
8,250.00	7,545.33	7,665.88	7,501.30	56.70	33.23	-52.51	1,232.34	3,184.85	1,130.20	1,046.90	83.29	13.569		
8,300.00	7,579.25	7,698.77	7,534.18	56.59	33.32	-58.94	1,232.06	3,184.84	1,104.39	1,021.77	82.62	13.367		
8,350.00	7,610.24	7,728.96	7,564.37	56.45	33.40	-64.93	1,231.76	3,184.85	1,079.11	997.33	81.78	13.196		
8,400.00	7,638.06	7,755.47	7,590.88	56.28	33.47	-70.38	1,231.49	3,184.89	1,054.87	974.09	80.77	13.060		
8,450.00	7,662.52	7,778.76	7,614.18	56.09	33.53	-75.24	1,231.25	3,184.96	1,032.18	952.59	79.60	12.967		
8,500.00	7,683.41	7,798.76	7,634.17	55.88	33.58	-79.46	1,231.05	3,185.06	1,011.59	933.32	78.26	12.925 SF		
8,550.00	7,700.59	7,815.28	7,650.70	55.64	33.63	-82.97	1,230.89	3,185.17	993.58	916.79	76.78	12.940		
8,600.00	7,713.91	7,828.52	7,663.93	55.39	33.66	-85.76	1,230.77	3,185.26	978.63	903.45	75.18	13.017		
8,650.00	7,723.29	7,838.57	7,673.98	55.14	33.69	-87.82	1,230.68	3,185.34	967.16	893.67	73.49	13.160		
8,700.00	7,728.64	7,844.44	7,679.85	54.87	33.71	-89.09	1,230.63	3,185.38	959.50	887.73	71.77	13.369		
8,740.83	7,730.00	7,846.13	7,681.54	54.65	33.71	-89.55	1,230.62	3,185.39	956.23	885.86	70.37	13.588 ES		
8,785.36	7,730.00	7,846.47	7,681.88	54.41	33.71	-89.57	1,230.62	3,185.40	955.19	886.29	68.91	13.862 CC		
8,800.00	7,730.00	7,846.58	7,681.99	54.33	33.71	-89.58	1,230.62	3,185.40	955.31	886.87	68.44	13.958		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	7,847.32	7,682.73	53.82	33.72	-89.62	1,230.61	3,185.40	962.05	896.44	65.61	14.663		
9,000.00	7,730.00	7,848.04	7,683.45	53.33	33.72	-89.67	1,230.60	3,185.41	979.01	915.48	63.53	15.409		
9,100.00	7,730.00	7,848.75	7,684.16	52.87	33.72	-89.71	1,230.60	3,185.41	1,005.68	943.33	62.35	16.129		
9,200.00	7,730.00	7,849.45	7,684.86	52.44	33.72	-89.75	1,230.59	3,185.42	1,041.31	979.25	62.06	16.780		
9,300.00	7,730.00	7,850.14	7,685.55	52.03	33.72	-89.79	1,230.59	3,185.42	1,085.01	1,022.49	62.52	17.356		
9,400.00	7,730.00	7,850.81	7,686.22	51.65	33.73	-89.83	1,230.58	3,185.43	1,135.85	1,072.33	63.53	17.880		
9,500.00	7,730.00	7,851.47	7,686.88	51.29	33.73	-89.87	1,230.58	3,185.43	1,192.93	1,128.05	64.89	18.385		
9,600.00	7,730.00	7,852.12	7,687.53	50.95	33.73	-89.91	1,230.58	3,185.44	1,255.39	1,188.97	66.43	18.899		
9,700.00	7,730.00	7,852.76	7,688.16	50.64	33.73	-89.95	1,230.57	3,185.44	1,322.47	1,254.45	68.02	19.441		
9,800.00	7,730.00	7,853.38	7,688.79	50.35	33.73	-89.99	1,230.57	3,185.45	1,393.50	1,323.90	69.60	20.020		
9,900.00	7,730.00	7,853.99	7,689.40	50.09	33.73	-90.02	1,230.56	3,185.45	1,467.91	1,396.80	71.12	20.641		
10,000.00	7,730.00	7,854.60	7,690.01	49.86	33.74	-90.06	1,230.56	3,185.46	1,545.21	1,472.68	72.54	21.303		
10,100.00	7,730.00	7,855.19	7,690.60	49.65	33.74	-90.10	1,230.55	3,185.46	1,624.99	1,551.14	73.85	22.003		
10,200.00	7,730.00	7,855.77	7,691.18	49.48	33.74	-90.13	1,230.55	3,185.47	1,706.90	1,631.84	75.06	22.739		
10,300.00	7,730.00	7,856.34	7,691.75	49.35	33.74	-90.17	1,230.55	3,185.47	1,790.65	1,714.48	76.18	23.507		
10,400.00	7,730.00	7,856.91	7,692.31	49.27	33.74	-90.20	1,230.54	3,185.47	1,875.99	1,798.80	77.19	24.303		
10,500.00	7,730.00	7,857.46	7,692.87	49.26	33.74	-90.23	1,230.54	3,185.48	1,962.72	1,884.60	78.12	25.124		
10,600.00	7,730.00	7,858.00	7,693.41	49.32	33.75	-90.26	1,230.54	3,185.48	2,050.65	1,971.68	78.97	25.968		
10,700.00	7,730.00	7,858.54	7,693.94	49.51	33.75	-90.30	1,230.53	3,185.49	2,139.65	2,059.90	79.75	26.831		
10,800.00	7,730.00	7,859.06	7,694.47	49.83	33.75	-90.33	1,230.53	3,185.49	2,229.57	2,149.12	80.46	27.711		
10,900.00	7,730.00	7,859.58	7,694.99	50.31	33.75	-90.36	1,230.53	3,185.49	2,320.33	2,239.21	81.11	28.607		
11,000.00	7,730.00	7,860.09	7,695.50	50.96	33.75	-90.39	1,230.52	3,185.50	2,411.81	2,330.10	81.71	29.516		
11,100.00	7,730.00	7,860.59	7,696.00	51.75	33.75	-90.42	1,230.52	3,185.50	2,503.94	2,421.68	82.26	30.438		
11,200.00	7,730.00	7,861.08	7,696.49	52.66	33.75	-90.45	1,230.52	3,185.50	2,596.66	2,513.88	82.78	31.370		
11,300.00	7,730.00	7,861.56	7,696.97	53.67	33.76	-90.48	1,230.51	3,185.51	2,689.90	2,606.65	83.25	32.312		
11,400.00	7,730.00	7,862.04	7,697.45	54.75	33.76	-90.51	1,230.51	3,185.51	2,783.60	2,699.92	83.69	33.262		
11,500.00	7,730.00	7,862.51	7,697.92	55.89	33.76	-90.53	1,230.51	3,185.51	2,877.74	2,793.64	84.10	34.220		
11,600.00	7,730.00	7,862.97	7,698.38	57.07	33.76	-90.56	1,230.51	3,185.52	2,972.25	2,887.77	84.48	35.185		
11,700.00	7,730.00	7,863.43	7,698.84	58.30	33.76	-90.59	1,230.50	3,185.52	3,067.11	2,982.28	84.83	36.156		
11,800.00	7,730.00	7,863.88	7,699.29	59.55	33.76	-90.62	1,230.50	3,185.52	3,162.29	3,077.13	85.16	37.132		
11,900.00	7,730.00	7,864.32	7,699.73	60.84	33.76	-90.64	1,230.50	3,185.53	3,257.76	3,172.28	85.47	38.114		
12,000.00	7,730.00	7,864.75	7,700.16	62.15	33.76	-90.67	1,230.50	3,185.53	3,353.49	3,267.72	85.77	39.100		
12,100.00	7,730.00	7,865.18	7,700.59	63.49	33.77	-90.70	1,230.49	3,185.53	3,449.46	3,363.42	86.04	40.091		
12,200.00	7,730.00	7,865.60	7,701.01	64.85	33.77	-90.72	1,230.49	3,185.54	3,545.66	3,459.36	86.30	41.085		
12,300.00	7,730.00	7,866.02	7,701.43	66.22	33.77	-90.75	1,230.49	3,185.54	3,642.06	3,555.51	86.55	42.082		
12,400.00	7,730.00	7,866.43	7,701.84	67.62	33.77	-90.77	1,230.49	3,185.54	3,738.65	3,651.87	86.78	43.083		
12,500.00	7,730.00	7,866.83	7,702.24	69.03	33.77	-90.79	1,230.48	3,185.55	3,835.42	3,748.42	87.00	44.086		
12,600.00	7,730.00	7,867.23	7,702.64	70.45	33.77	-90.82	1,230.48	3,185.55	3,932.34	3,845.13	87.21	45.092		
12,700.00	7,730.00	7,867.62	7,703.03	71.90	33.77	-90.84	1,230.48	3,185.55	4,029.42	3,942.01	87.41	46.100		
12,800.00	7,730.00	7,868.01	7,703.42	73.35	33.77	-90.86	1,230.48	3,185.55	4,126.64	4,039.04	87.60	47.110		
12,900.00	7,730.00	7,868.39	7,703.80	74.81	33.78	-90.89	1,230.48	3,185.56	4,223.98	4,136.21	87.78	48.122		
13,000.00	7,730.00	7,868.77	7,704.17	76.29	33.78	-90.91	1,230.47	3,185.56	4,321.45	4,233.50	87.95	49.136		
13,100.00	7,730.00	7,869.14	7,704.55	77.78	33.78	-90.93	1,230.47	3,185.56	4,419.03	4,330.92	88.11	50.151		
13,200.00	7,730.00	7,869.50	7,704.91	79.28	33.78	-90.95	1,230.47	3,185.57	4,516.72	4,428.44	88.27	51.168		
13,300.00	7,730.00	7,869.86	7,705.27	80.79	33.78	-90.98	1,230.47	3,185.57	4,614.50	4,526.08	88.42	52.186		
13,400.00	7,730.00	7,870.22	7,705.63	82.31	33.78	-91.00	1,230.47	3,185.57	4,712.38	4,623.81	88.57	53.205		
13,500.00	7,730.00	7,870.57	7,705.98	83.84	33.78	-91.02	1,230.46	3,185.57	4,810.34	4,721.63	88.71	54.225		
13,600.00	7,730.00	7,870.92	7,706.32	85.37	33.78	-91.04	1,230.46	3,185.58	4,908.39	4,819.55	88.85	55.246		
13,700.00	7,730.00	7,871.26	7,706.67	86.92	33.78	-91.06	1,230.46	3,185.58	5,006.52	4,917.54	88.98	56.267		
13,800.00	7,730.00	7,871.59	7,707.00	88.47	33.78	-91.08	1,230.46	3,185.58	5,104.71	5,015.61	89.10	57.290		
13,900.00	7,730.00	7,871.93	7,707.34	90.03	33.79	-91.10	1,230.46	3,185.58	5,202.98	5,113.76	89.23	58.313		
14,000.00	7,730.00	7,872.26	7,707.66	91.59	33.79	-91.12	1,230.46	3,185.59	5,301.31	5,211.97	89.34	59.336		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,730.00	7,872.58	7,707.99	93.16	33.79	-91.14	1,230.45	3,185.59	5,399.70	5,310.25	89.46	60.360		
14,200.00	7,730.00	7,872.90	7,708.31	94.74	33.79	-91.16	1,230.45	3,185.59	5,498.15	5,408.58	89.57	61.384		
14,300.00	7,730.00	7,873.22	7,708.62	96.33	33.79	-91.18	1,230.45	3,185.59	5,596.66	5,506.98	89.68	62.409		
14,400.00	7,730.00	7,873.53	7,708.94	97.92	33.79	-91.20	1,230.45	3,185.60	5,695.22	5,605.43	89.78	63.434		
14,500.00	7,730.00	7,873.83	7,709.24	99.51	33.79	-91.21	1,230.45	3,185.60	5,793.82	5,703.94	89.88	64.458		
14,600.00	7,730.00	7,874.14	7,709.55	101.11	33.79	-91.23	1,230.45	3,185.60	5,892.48	5,802.49	89.98	65.483		
14,700.00	7,730.00	7,874.44	7,709.85	102.72	33.79	-91.25	1,230.45	3,185.60	5,991.18	5,901.09	90.08	66.509		
14,800.00	7,730.00	7,874.74	7,710.14	104.33	33.79	-91.27	1,230.44	3,185.60	6,089.92	5,999.74	90.18	67.534		
14,900.00	7,730.00	7,875.03	7,710.44	105.94	33.79	-91.29	1,230.44	3,185.61	6,188.70	6,098.43	90.27	68.558		
15,000.00	7,730.00	7,875.32	7,710.73	107.56	33.79	-91.30	1,230.44	3,185.61	6,287.52	6,197.16	90.36	69.583		
15,100.00	7,730.00	7,875.60	7,711.01	109.18	33.80	-91.32	1,230.44	3,185.61	6,386.37	6,295.92	90.45	70.608		
15,200.00	7,730.00	7,875.89	7,711.29	110.81	33.80	-91.34	1,230.44	3,185.61	6,485.26	6,394.73	90.54	71.633		
15,300.00	7,730.00	7,876.16	7,711.57	112.44	33.80	-91.35	1,230.44	3,185.61	6,584.19	6,493.57	90.62	72.657		
15,400.00	7,730.00	7,876.44	7,711.85	114.08	33.80	-91.37	1,230.44	3,185.62	6,683.15	6,592.44	90.70	73.681		
15,500.00	7,730.00	7,876.71	7,712.12	115.72	33.80	-91.39	1,230.43	3,185.62	6,782.13	6,691.35	90.79	74.704		
15,600.00	7,730.00	7,876.98	7,712.39	117.36	33.80	-91.40	1,230.43	3,185.62	6,881.15	6,790.28	90.87	75.728		
15,700.00	7,730.00	7,877.25	7,712.66	119.00	33.80	-91.42	1,230.43	3,185.62	6,980.19	6,889.25	90.95	76.751		
15,800.00	7,730.00	7,877.51	7,712.92	120.65	33.80	-91.43	1,230.43	3,185.62	7,079.27	6,988.24	91.02	77.773		
15,900.00	7,730.00	7,877.77	7,713.18	122.30	33.80	-91.45	1,230.43	3,185.63	7,178.36	7,087.26	91.10	78.795		
16,000.00	7,730.00	7,878.03	7,713.43	123.96	33.80	-91.46	1,230.43	3,185.63	7,277.49	7,186.31	91.18	79.817		
16,100.00	7,730.00	7,878.28	7,713.69	125.61	33.80	-91.48	1,230.43	3,185.63	7,376.63	7,285.38	91.25	80.838		
16,200.00	7,730.00	7,878.53	7,713.94	127.27	33.80	-91.50	1,230.43	3,185.63	7,475.80	7,384.47	91.33	81.858		
16,300.00	7,730.00	7,878.78	7,714.19	128.94	33.80	-91.51	1,230.43	3,185.63	7,574.99	7,483.59	91.40	82.878		
16,400.00	7,730.00	7,879.02	7,714.43	130.60	33.80	-91.52	1,230.42	3,185.63	7,674.20	7,582.73	91.47	83.897		
16,500.00	7,730.00	7,879.27	7,714.67	132.27	33.81	-91.54	1,230.42	3,185.64	7,773.43	7,681.89	91.54	84.916		
16,600.00	7,730.00	7,879.51	7,714.91	133.94	33.81	-91.55	1,230.42	3,185.64	7,872.68	7,781.07	91.61	85.934		
16,700.00	7,730.00	7,879.74	7,715.15	135.61	33.81	-91.57	1,230.42	3,185.64	7,971.95	7,880.27	91.68	86.951		
16,800.00	7,730.00	7,879.98	7,715.39	137.28	33.81	-91.58	1,230.42	3,185.64	8,071.24	7,979.49	91.75	87.968		
16,900.00	7,730.00	7,880.21	7,715.62	138.96	33.81	-91.60	1,230.42	3,185.64	8,170.55	8,078.72	91.82	88.984		
17,000.00	7,730.00	7,880.44	7,715.85	140.64	33.81	-91.61	1,230.42	3,185.65	8,269.87	8,177.98	91.89	89.999		
17,100.00	7,730.00	7,880.66	7,716.07	142.32	33.81	-91.62	1,230.42	3,185.65	8,369.20	8,277.25	91.96	91.013		
17,200.00	7,730.00	7,880.89	7,716.30	144.00	33.81	-91.64	1,230.42	3,185.65	8,468.56	8,376.53	92.02	92.026		
17,300.00	7,730.00	7,881.11	7,716.52	145.69	33.81	-91.65	1,230.42	3,185.65	8,567.93	8,475.84	92.09	93.039		
17,400.00	7,730.00	7,881.33	7,716.74	147.37	33.81	-91.66	1,230.42	3,185.65	8,667.31	8,575.15	92.16	94.051		
17,500.00	7,730.00	7,881.55	7,716.96	149.06	33.81	-91.68	1,230.41	3,185.65	8,766.71	8,674.49	92.22	95.062		
17,600.00	7,730.00	7,881.76	7,717.17	150.75	33.81	-91.69	1,230.41	3,185.65	8,866.12	8,773.83	92.29	96.072		
17,700.00	7,730.00	7,881.98	7,717.38	152.44	33.81	-91.70	1,230.41	3,185.66	8,965.54	8,873.19	92.35	97.081		
17,800.00	7,730.00	7,882.19	7,717.59	154.13	33.81	-91.71	1,230.41	3,185.66	9,064.98	8,972.56	92.42	98.089		
17,900.00	7,730.00	7,882.39	7,717.80	155.83	33.81	-91.73	1,230.41	3,185.66	9,164.43	9,071.95	92.48	99.097		
18,000.00	7,730.00	7,882.60	7,718.01	157.52	33.82	-91.74	1,230.41	3,185.66	9,263.89	9,171.34	92.54	100.103		
18,100.00	7,730.00	7,882.80	7,718.21	159.22	33.82	-91.75	1,230.41	3,185.66	9,363.36	9,270.75	92.61	101.109		
18,200.00	7,730.00	7,883.01	7,718.41	160.92	33.82	-91.76	1,230.41	3,185.66	9,462.84	9,370.17	92.67	102.113		
18,300.00	7,730.00	7,883.21	7,718.61	162.62	33.82	-91.78	1,230.41	3,185.67	9,562.33	9,469.60	92.73	103.116		
18,400.00	7,730.00	7,883.40	7,718.81	164.32	33.82	-91.79	1,230.41	3,185.67	9,661.84	9,569.04	92.80	104.119		
18,426.22	7,730.00	7,883.46	7,718.86	164.76	33.82	-91.79	1,230.41	3,185.67	9,687.93	9,595.12	92.81	104.381		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	70.67	753.80	2,148.67	2,277.45					
100.00	100.00	79.39	79.39	0.13	0.13	70.67	753.49	2,148.39	2,276.79	2,276.53	0.26	8,761.364		
200.00	200.00	166.38	166.37	0.49	0.41	70.68	753.05	2,147.84	2,276.05	2,275.14	0.90	2,525.367		
300.00	300.00	275.24	275.23	0.85	0.79	70.67	753.35	2,147.22	2,275.61	2,273.96	1.65	1,382.932		
400.00	400.00	381.33	381.32	1.21	1.17	70.66	753.29	2,146.30	2,274.78	2,272.39	2.38	955.035		
500.00	500.00	539.10	539.01	1.57	1.73	70.74	749.34	2,144.25	2,272.86	2,269.56	3.30	688.727		
600.00	600.00	662.48	662.06	1.93	2.19	70.92	740.90	2,141.53	2,268.46	2,264.35	4.10	552.864		
700.00	700.00	741.52	740.68	2.29	2.48	71.11	732.71	2,140.91	2,264.33	2,259.58	4.75	476.516		
800.00	800.00	819.59	818.07	2.64	2.78	71.36	722.60	2,141.77	2,261.18	2,255.77	5.41	418.171		
900.00	900.00	875.37	873.20	3.00	3.00	71.57	714.26	2,143.55	2,259.47	2,253.48	5.99	377.369		
932.30	932.30	892.71	890.30	3.12	3.07	71.64	711.56	2,144.39	2,259.36	2,253.19	6.17	366.054		
1,000.00	1,000.00	920.00	917.20	3.36	3.18	71.76	707.22	2,145.97	2,259.87	2,253.35	6.52	346.477		
1,100.00	1,100.00	988.35	984.35	3.72	3.47	72.08	695.63	2,151.28	2,262.15	2,254.98	7.17	315.620		
1,200.00	1,200.00	1,041.05	1,035.88	4.08	3.69	72.35	686.00	2,156.65	2,266.42	2,258.68	7.74	292.631		
1,300.00	1,299.98	1,089.14	1,082.72	4.43	3.90	25.46	676.97	2,162.73	2,271.40	2,263.09	8.30	273.529		
1,400.00	1,399.84	1,144.33	1,136.28	4.79	4.16	25.77	666.46	2,170.95	2,275.48	2,266.58	8.90	255.720		
1,500.00	1,499.45	1,209.06	1,198.98	5.15	4.46	26.18	654.40	2,181.59	2,278.27	2,268.73	9.54	238.811		
1,600.00	1,598.70	1,279.00	1,266.78	5.51	4.79	26.64	642.21	2,193.63	2,279.31	2,269.10	10.21	223.239		
1,700.00	1,697.47	1,346.19	1,331.85	5.89	5.11	27.12	630.86	2,205.92	2,278.73	2,267.86	10.87	209.584		
1,800.00	1,795.62	1,414.29	1,397.53	6.28	5.46	27.66	619.00	2,219.45	2,276.72	2,265.18	11.55	197.187		
1,900.00	1,893.06	1,493.71	1,473.74	6.69	5.88	28.37	604.27	2,236.25	2,273.03	2,260.73	12.30	184.800		
2,000.00	1,989.64	1,591.98	1,567.88	7.13	6.42	29.32	585.33	2,257.14	2,266.78	2,253.60	13.18	171.975		
2,100.00	2,085.27	1,682.29	1,654.39	7.61	6.92	30.27	568.00	2,276.43	2,258.20	2,244.17	14.03	160.946		
2,200.00	2,179.82	1,776.79	1,745.01	8.12	7.46	31.33	550.00	2,296.32	2,246.99	2,232.07	14.92	150.606		
2,300.00	2,273.17	1,851.19	1,816.30	8.67	7.89	32.25	536.04	2,312.34	2,234.00	2,218.30	15.71	142.235		
2,400.00	2,365.21	1,968.00	1,928.44	9.27	8.56	33.71	514.34	2,336.81	2,218.29	2,201.53	16.76	132.328		
2,500.00	2,455.84	2,043.69	2,001.12	9.92	9.00	34.80	500.28	2,352.58	2,200.51	2,182.91	17.60	125.012		
2,580.62	2,527.80	2,099.07	2,054.21	10.49	9.33	35.67	489.93	2,364.47	2,185.23	2,166.96	18.27	119.625		
2,600.00	2,544.97	2,112.30	2,066.88	10.63	9.41	35.83	487.45	2,367.37	2,181.50	2,163.08	18.43	118.369		
2,700.00	2,633.58	2,229.17	2,178.68	11.37	10.11	37.35	464.54	2,392.53	2,162.57	2,142.99	19.58	110.446		
2,800.00	2,722.19	2,319.84	2,265.44	12.13	10.66	38.57	445.96	2,411.20	2,143.79	2,123.19	20.60	104.058		
2,900.00	2,810.80	2,386.43	2,329.20	12.91	11.06	39.47	432.72	2,425.10	2,126.37	2,104.88	21.49	98.946		
3,000.00	2,899.41	2,471.97	2,411.14	13.71	11.58	40.61	416.37	2,443.46	2,110.58	2,088.06	22.51	93.750		
3,100.00	2,988.02	2,561.28	2,496.64	14.52	12.13	41.83	398.83	2,462.36	2,095.64	2,072.06	23.58	88.869		
3,200.00	3,076.63	2,646.24	2,577.84	15.34	12.65	43.03	381.46	2,480.31	2,081.89	2,057.25	24.64	84.480		
3,300.00	3,165.24	2,731.27	2,659.23	16.16	13.17	44.22	364.63	2,498.33	2,069.35	2,043.63	25.72	80.455		
3,400.00	3,253.85	2,817.32	2,741.67	17.00	13.69	45.42	348.16	2,516.66	2,058.06	2,031.25	26.81	76.752		
3,500.00	3,342.46	2,920.91	2,840.96	17.84	14.32	46.88	328.22	2,538.43	2,047.76	2,019.73	28.04	73.041		
3,600.00	3,431.07	3,015.53	2,931.88	18.69	14.89	48.23	309.88	2,557.13	2,037.55	2,008.34	29.21	69.747		
3,700.00	3,519.68	3,077.12	2,991.02	19.55	15.26	49.10	298.29	2,569.86	2,029.33	1,999.14	30.19	67.227		
3,800.00	3,608.29	3,168.64	3,078.75	20.40	15.82	50.42	280.73	2,589.12	2,022.74	1,991.37	31.37	64.484		
3,900.00	3,696.90	3,262.82	3,169.09	21.26	16.39	51.78	262.66	2,608.64	2,017.14	1,984.56	32.58	61.916		
4,000.00	3,785.51	3,351.02	3,253.83	22.13	16.92	53.04	246.30	2,626.82	2,012.58	1,978.83	33.75	59.626		
4,100.00	3,874.12	3,433.33	3,332.90	23.00	17.42	54.23	230.98	2,643.81	2,009.33	1,974.43	34.90	57.578		
4,200.00	3,962.73	3,512.49	3,408.85	23.87	17.90	55.38	215.88	2,660.26	2,007.58	1,971.55	36.03	55.717		
4,257.52	4,013.70	3,557.63	3,452.06	24.37	18.18	56.05	206.76	2,669.61	2,007.31	1,970.63	36.68	54.718		
4,300.00	4,051.34	3,591.88	3,484.84	24.74	18.40	56.55	199.87	2,676.77	2,007.45	1,970.28	37.18	54.000		
4,400.00	4,139.95	3,684.67	3,573.70	25.62	18.97	57.91	181.81	2,696.40	2,008.76	1,970.34	38.42	52.287		
4,500.00	4,228.56	3,769.99	3,655.64	26.49	19.49	59.13	166.13	2,714.31	2,010.86	1,971.25	39.61	50.769		
4,600.00	4,317.17	3,844.60	3,727.07	27.37	19.95	60.21	151.69	2,730.25	2,014.85	1,974.13	40.72	49.477		
4,700.00	4,405.78	3,943.04	3,821.41	28.25	20.56	61.64	132.42	2,750.74	2,019.74	1,977.72	42.02	48.061		
4,800.00	4,494.39	4,009.15	3,884.71	29.13	20.96	62.60	119.64	2,764.87	2,026.30	1,983.22	43.08	47.037		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
4,900.00	4,583.00	4,109.85	3,981.09	30.02	21.59	64.04	100.07	2,786.53	2,034.29	1,989.88	44.40	45.813		
5,000.00	4,671.61	4,217.79	4,084.78	30.90	22.24	65.55	80.47	2,809.22	2,042.55	1,996.77	45.78	44.616		
5,100.00	4,760.22	4,290.66	4,154.82	31.79	22.68	66.55	67.56	2,824.65	2,051.96	2,005.07	46.89	43.764		
5,200.00	4,848.83	4,378.97	4,239.57	32.67	23.22	67.79	50.93	2,843.10	2,062.81	2,014.69	48.12	42.869		
5,300.00	4,937.44	4,441.21	4,299.20	33.56	23.61	68.66	38.71	2,856.06	2,075.22	2,026.07	49.14	42.229		
5,400.00	5,026.05	4,504.89	4,359.98	34.45	24.01	69.54	26.10	2,870.23	2,089.91	2,039.74	50.17	41.659		
5,500.00	5,114.66	4,582.66	4,434.06	35.34	24.51	70.62	9.71	2,887.36	2,106.25	2,054.94	51.31	41.047		
5,600.00	5,203.27	4,647.09	4,495.25	36.23	24.94	71.52	-4.54	2,901.60	2,124.37	2,072.03	52.34	40.590		
5,700.00	5,291.88	4,817.59	4,658.01	37.12	26.02	73.83	-39.57	2,938.25	2,142.40	2,088.09	54.31	39.451		
5,800.00	5,380.50	4,977.61	4,812.33	38.01	26.96	75.94	-69.18	2,968.53	2,158.79	2,102.67	56.12	38.468		
5,900.00	5,469.11	5,388.11	5,216.04	38.90	28.86	81.06	-117.17	3,021.97	2,169.41	2,110.23	59.17	36.661		
6,000.00	5,557.72	5,644.73	5,472.22	39.79	29.64	84.19	-126.29	3,032.36	2,168.07	2,107.25	60.82	35.645		
6,100.00	5,646.33	5,767.26	5,594.74	40.68	29.94	85.67	-126.77	3,033.79	2,164.72	2,102.65	62.07	34.875		
6,200.00	5,734.94	5,863.41	5,690.88	41.58	30.17	86.84	-126.69	3,034.06	2,161.49	2,098.22	63.27	34.161		
6,300.00	5,823.55	5,952.69	5,780.17	42.47	30.38	87.94	-126.83	3,034.06	2,159.22	2,094.75	64.47	33.492		
6,400.00	5,912.16	6,051.14	5,878.61	43.36	30.60	89.14	-126.44	3,034.32	2,157.77	2,092.11	65.67	32.859		
6,500.00	6,000.77	6,144.64	5,972.11	44.26	30.81	90.29	-126.08	3,033.88	2,156.85	2,090.00	66.85	32.263		
6,538.82	6,035.16	6,178.03	6,005.50	44.61	30.88	90.71	-126.01	3,033.66	2,156.77	2,089.46	67.31	32.043		
6,600.00	6,089.38	6,228.85	6,056.32	45.15	30.99	91.34	-125.93	3,033.37	2,157.00	2,088.97	68.02	31.709		
6,700.00	6,177.99	6,312.75	6,140.22	46.05	31.18	92.37	-125.69	3,033.29	2,158.36	2,089.17	69.19	31.194		
6,800.00	6,266.60	6,407.19	6,234.66	46.94	31.39	93.53	-125.59	3,033.11	2,160.80	2,090.44	70.36	30.709		
6,900.00	6,355.21	6,507.08	6,334.54	47.84	31.62	94.76	-125.13	3,032.22	2,163.56	2,092.03	71.54	30.244		
7,000.00	6,443.82	6,585.26	6,412.71	48.74	31.80	95.69	-124.00	3,032.69	2,167.46	2,094.78	72.68	29.823		
7,100.00	6,532.43	6,659.00	6,486.44	49.63	31.99	96.56	-123.09	3,033.78	2,172.88	2,099.07	73.81	29.440		
7,200.00	6,621.04	6,750.90	6,578.33	50.53	32.22	97.64	-122.41	3,034.98	2,179.47	2,104.52	74.96	29.076		
7,300.00	6,709.65	6,826.62	6,654.03	51.42	32.42	98.52	-121.77	3,036.38	2,187.17	2,111.11	76.07	28.753		
7,400.00	6,798.26	6,929.75	6,757.13	52.32	32.69	99.70	-120.79	3,038.73	2,195.89	2,118.67	77.22	28.436		
7,500.00	6,886.87	7,015.74	6,843.12	53.22	32.91	100.72	-120.72	3,038.79	2,205.10	2,126.78	78.32	28.155		
7,600.00	6,975.48	7,116.81	6,944.19	54.12	33.15	101.94	-120.95	3,038.15	2,215.17	2,135.75	79.42	27.891		
7,656.30	7,025.36	7,173.91	7,001.28	54.62	33.29	102.62	-120.80	3,037.64	2,220.98	2,140.95	80.03	27.750		
7,700.00	7,064.54	7,218.35	7,045.72	55.00	33.39	96.12	-120.58	3,037.20	2,224.11	2,143.61	80.50	27.629		
7,750.00	7,110.29	7,277.46	7,104.82	55.40	33.53	86.69	-120.04	3,036.53	2,224.02	2,143.01	81.02	27.451		
7,800.00	7,156.67	7,326.86	7,154.21	55.75	33.65	75.10	-119.35	3,035.88	2,219.94	2,138.45	81.49	27.242		
7,850.00	7,203.34	7,358.50	7,185.85	56.05	33.72	62.09	-119.00	3,035.55	2,212.28	2,130.38	81.90	27.011		
7,900.00	7,249.95	7,390.19	7,217.53	56.30	33.80	49.15	-118.83	3,035.35	2,201.18	2,118.90	82.28	26.753		
7,950.00	7,296.14	7,431.06	7,258.40	56.50	33.90	37.51	-118.81	3,035.24	2,186.64	2,104.01	82.63	26.463		
8,000.00	7,341.56	7,486.64	7,313.99	56.64	34.03	27.70	-118.73	3,034.85	2,168.35	2,085.38	82.97	26.133		
8,050.00	7,385.86	7,531.03	7,358.37	56.74	34.14	19.45	-118.59	3,034.39	2,146.40	2,063.14	83.26	25.780		
8,100.00	7,428.71	7,569.66	7,397.00	56.79	34.24	12.46	-118.47	3,034.12	2,121.13	2,037.63	83.49	25.405		
8,150.00	7,469.77	7,608.38	7,435.72	56.80	34.33	6.35	-118.35	3,034.01	2,092.72	2,009.03	83.69	25.004		
8,200.00	7,508.75	7,650.00	7,477.34	56.77	34.44	0.75	-118.18	3,033.95	2,061.29	1,977.42	83.87	24.578		
8,250.00	7,545.33	7,688.95	7,516.29	56.70	34.54	-4.72	-117.95	3,033.91	2,027.03	1,943.02	84.00	24.131		
8,300.00	7,579.25	7,717.00	7,544.34	56.59	34.61	-10.32	-117.78	3,033.91	1,990.28	1,906.20	84.08	23.671		
8,350.00	7,610.24	7,741.86	7,569.20	56.45	34.68	-16.34	-117.71	3,033.94	1,951.41	1,867.29	84.12	23.198		
8,400.00	7,638.06	7,764.35	7,591.69	56.28	34.74	-23.08	-117.71	3,033.98	1,910.71	1,826.58	84.12	22.714		
8,450.00	7,662.52	7,784.30	7,611.64	56.09	34.79	-30.81	-117.76	3,034.05	1,868.49	1,784.41	84.08	22.222		
8,500.00	7,683.41	7,805.57	7,632.90	55.88	34.85	-39.87	-117.84	3,034.12	1,825.07	1,741.06	84.02	21.723		
8,550.00	7,700.59	7,823.44	7,650.78	55.64	34.90	-50.16	-117.90	3,034.18	1,780.80	1,696.90	83.91	21.223		
8,600.00	7,713.91	7,837.34	7,664.68	55.39	34.94	-61.22	-117.95	3,034.22	1,736.08	1,652.32	83.76	20.727		
8,650.00	7,723.29	7,847.15	7,674.49	55.14	34.97	-72.26	-117.98	3,034.24	1,691.31	1,607.75	83.57	20.239		
8,700.00	7,728.64	7,852.83	7,680.16	54.87	34.98	-82.39	-118.00	3,034.26	1,646.93	1,563.60	83.33	19.764		
8,740.83	7,730.00	7,854.35	7,681.69	54.65	34.99	-89.55	-118.00	3,034.26	1,611.27	1,528.16	83.11	19.388		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,800.00	7,730.00	7,854.54	7,681.88	54.33	34.99	-89.57	-118.00	3,034.26	1,560.37	1,477.62	82.75	18.856		
8,900.00	7,730.00	7,854.87	7,682.20	53.82	34.99	-89.59	-118.00	3,034.26	1,475.76	1,393.67	82.09	17.977		
9,000.00	7,730.00	7,855.19	7,682.52	53.33	34.99	-89.61	-118.00	3,034.26	1,393.19	1,311.84	81.34	17.127		
9,100.00	7,730.00	7,855.51	7,682.84	52.87	34.99	-89.63	-118.00	3,034.26	1,313.04	1,232.53	80.50	16.310		
9,200.00	7,730.00	7,855.83	7,683.16	52.44	34.99	-89.66	-118.00	3,034.27	1,235.79	1,156.23	79.56	15.533		
9,300.00	7,730.00	7,856.14	7,683.48	52.03	34.99	-89.68	-118.01	3,034.27	1,162.01	1,083.51	78.51	14.801		
9,400.00	7,730.00	7,856.46	7,683.80	51.65	34.99	-89.70	-118.01	3,034.27	1,092.42	1,015.07	77.35	14.124		
9,500.00	7,730.00	7,856.78	7,684.12	51.29	34.99	-89.73	-118.01	3,034.27	1,027.85	951.76	76.10	13.507		
9,600.00	7,730.00	7,857.10	7,684.44	50.95	34.99	-89.75	-118.01	3,034.27	969.32	894.53	74.79	12.960		
9,700.00	7,730.00	7,857.41	7,684.75	50.64	34.99	-89.77	-118.01	3,034.27	917.98	844.47	73.51	12.488		
9,800.00	7,730.00	7,857.73	7,685.07	50.35	35.00	-89.79	-118.01	3,034.27	875.09	802.73	72.36	12.094		
9,900.00	7,730.00	7,858.05	7,685.39	50.09	35.00	-89.81	-118.01	3,034.27	841.96	770.45	71.51	11.774		
10,000.00	7,730.00	7,858.36	7,685.70	49.86	35.00	-89.84	-118.01	3,034.27	819.75	748.62	71.14	11.524		
10,100.00	7,730.00	7,858.68	7,686.01	49.65	35.00	-89.86	-118.01	3,034.27	809.38	737.98	71.40	11.336		
10,134.49	7,730.00	7,858.78	7,686.12	49.59	35.00	-89.87	-118.01	3,034.27	808.64	736.99	71.66	11.285 CC, ES		
10,200.00	7,730.00	7,858.99	7,686.33	49.48	35.00	-89.88	-118.01	3,034.27	811.29	738.95	72.35	11.214		
10,300.00	7,730.00	7,859.30	7,686.64	49.35	35.00	-89.90	-118.02	3,034.27	825.41	751.52	73.89	11.171 SF		
10,400.00	7,730.00	7,859.62	7,686.96	49.27	35.00	-89.93	-118.02	3,034.27	851.12	775.31	75.80	11.228		
10,500.00	7,730.00	7,859.93	7,687.27	49.26	35.00	-89.95	-118.02	3,034.27	887.41	809.55	77.86	11.397		
10,600.00	7,730.00	7,860.24	7,687.58	49.32	35.00	-89.97	-118.02	3,034.28	933.06	853.19	79.87	11.683		
10,700.00	7,730.00	7,860.55	7,687.89	49.51	35.00	-89.99	-118.02	3,034.28	986.76	905.07	81.69	12.079		
10,800.00	7,730.00	7,860.86	7,688.20	49.83	35.00	-90.01	-118.02	3,034.28	1,047.28	964.00	83.28	12.575		
10,900.00	7,730.00	7,861.17	7,688.51	50.31	35.01	-90.04	-118.02	3,034.28	1,113.51	1,028.88	84.63	13.157		
11,000.00	7,730.00	7,861.48	7,688.82	50.96	35.01	-90.06	-118.02	3,034.28	1,184.48	1,098.72	85.76	13.812		
11,100.00	7,730.00	7,861.79	7,689.13	51.75	35.01	-90.08	-118.02	3,034.28	1,259.40	1,172.72	86.69	14.528		
11,200.00	7,730.00	7,862.10	7,689.44	52.66	35.01	-90.10	-118.02	3,034.28	1,337.61	1,250.16	87.45	15.295		
11,300.00	7,730.00	7,862.41	7,689.75	53.67	35.01	-90.12	-118.03	3,034.28	1,418.56	1,330.47	88.08	16.105		
11,400.00	7,730.00	7,862.72	7,690.06	54.75	35.01	-90.15	-118.03	3,034.28	1,501.80	1,413.20	88.60	16.950		
11,500.00	7,730.00	7,863.03	7,690.36	55.89	35.01	-90.17	-118.03	3,034.28	1,586.98	1,497.95	89.03	17.826		
11,600.00	7,730.00	7,863.33	7,690.67	57.07	35.01	-90.19	-118.03	3,034.28	1,673.80	1,584.42	89.38	18.727		
11,700.00	7,730.00	7,863.64	7,690.98	58.30	35.01	-90.21	-118.03	3,034.28	1,762.01	1,672.34	89.67	19.650		
11,800.00	7,730.00	7,863.94	7,691.28	59.55	35.01	-90.23	-118.03	3,034.28	1,851.43	1,761.52	89.91	20.591		
11,900.00	7,730.00	7,864.25	7,691.59	60.84	35.01	-90.25	-118.03	3,034.28	1,941.88	1,851.76	90.12	21.548		
12,000.00	7,730.00	7,864.56	7,691.89	62.15	35.01	-90.28	-118.03	3,034.29	2,033.22	1,942.93	90.29	22.518		
12,100.00	7,730.00	7,864.86	7,692.20	63.49	35.02	-90.30	-118.03	3,034.29	2,125.34	2,034.91	90.44	23.501		
12,200.00	7,730.00	7,865.16	7,692.50	64.85	35.02	-90.32	-118.03	3,034.29	2,218.15	2,127.59	90.56	24.493		
12,300.00	7,730.00	7,865.47	7,692.80	66.22	35.02	-90.34	-118.03	3,034.29	2,311.55	2,220.89	90.67	25.495		
12,400.00	7,730.00	7,865.77	7,693.11	67.62	35.02	-90.36	-118.04	3,034.29	2,405.49	2,314.73	90.76	26.504		
12,500.00	7,730.00	7,866.07	7,693.41	69.03	35.02	-90.38	-118.04	3,034.29	2,499.90	2,409.06	90.84	27.520		
12,600.00	7,730.00	7,866.37	7,693.71	70.45	35.02	-90.40	-118.04	3,034.29	2,594.72	2,503.81	90.91	28.543		
12,700.00	7,730.00	7,866.67	7,694.01	71.90	35.02	-90.43	-118.04	3,034.29	2,689.92	2,598.95	90.97	29.570		
12,800.00	7,730.00	7,866.98	7,694.31	73.35	35.02	-90.45	-118.04	3,034.29	2,785.46	2,694.44	91.02	30.603		
12,900.00	7,730.00	7,867.28	7,694.61	74.81	35.02	-90.47	-118.04	3,034.29	2,881.30	2,790.23	91.07	31.640		
13,000.00	7,730.00	7,867.58	7,694.91	76.29	35.02	-90.49	-118.04	3,034.29	2,977.41	2,886.30	91.11	32.680		
13,100.00	7,730.00	7,867.87	7,695.21	77.78	35.02	-90.51	-118.04	3,034.29	3,073.77	2,982.62	91.15	33.724		
13,200.00	7,730.00	7,868.17	7,695.51	79.28	35.02	-90.53	-118.04	3,034.29	3,170.35	3,079.18	91.18	34.771		
13,300.00	7,730.00	7,868.47	7,695.81	80.79	35.03	-90.55	-118.04	3,034.29	3,267.15	3,175.94	91.21	35.820		
13,400.00	7,730.00	7,868.77	7,696.11	82.31	35.03	-90.57	-118.04	3,034.29	3,364.13	3,272.89	91.24	36.872		
13,500.00	7,730.00	7,869.07	7,696.41	83.84	35.03	-90.60	-118.05	3,034.30	3,461.28	3,370.01	91.27	37.925		
13,600.00	7,730.00	7,869.36	7,696.70	85.37	35.03	-90.62	-118.05	3,034.30	3,558.59	3,467.30	91.29	38.981		
13,700.00	7,730.00	7,869.66	7,697.00	86.92	35.03	-90.64	-118.05	3,034.30	3,656.04	3,564.73	91.31	40.039		
13,800.00	7,730.00	7,869.96	7,697.29	88.47	35.03	-90.66	-118.05	3,034.30	3,753.63	3,662.29	91.34	41.097		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
13,900.00	7,730.00	7,870.25	7,697.59	90.03	35.03	-90.68	-118.05	3,034.30	3,851.34	3,759.98	91.36	42.157		
14,000.00	7,730.00	7,870.55	7,697.88	91.59	35.03	-90.70	-118.05	3,034.30	3,949.17	3,857.79	91.38	43.219		
14,100.00	7,730.00	7,870.84	7,698.18	93.16	35.03	-90.72	-118.05	3,034.30	4,047.10	3,955.70	91.40	44.281		
14,200.00	7,730.00	7,871.13	7,698.47	94.74	35.03	-90.74	-118.05	3,034.30	4,145.13	4,053.71	91.42	45.344		
14,300.00	7,730.00	7,871.43	7,698.77	96.33	35.03	-90.76	-118.05	3,034.30	4,243.25	4,151.82	91.43	46.408		
14,400.00	7,730.00	7,871.72	7,699.06	97.92	35.03	-90.78	-118.05	3,034.30	4,341.46	4,250.01	91.45	47.472		
14,500.00	7,730.00	7,872.01	7,699.35	99.51	35.04	-90.80	-118.05	3,034.30	4,439.75	4,348.28	91.47	48.537		
14,600.00	7,730.00	7,872.31	7,699.64	101.11	35.04	-90.82	-118.06	3,034.30	4,538.11	4,446.62	91.49	49.603		
14,700.00	7,730.00	7,872.60	7,699.94	102.72	35.04	-90.85	-118.06	3,034.30	4,636.55	4,545.04	91.51	50.668		
14,800.00	7,730.00	7,872.89	7,700.23	104.33	35.04	-90.87	-118.06	3,034.30	4,735.05	4,643.52	91.53	51.734		
14,900.00	7,730.00	7,873.18	7,700.52	105.94	35.04	-90.89	-118.06	3,034.30	4,833.61	4,742.06	91.54	52.801		
15,000.00	7,730.00	7,873.47	7,700.81	107.56	35.04	-90.91	-118.06	3,034.30	4,932.22	4,840.66	91.56	53.867		
15,100.00	7,730.00	7,873.76	7,701.10	109.18	35.04	-90.93	-118.06	3,034.30	5,030.90	4,939.32	91.58	54.933		
15,200.00	7,730.00	7,874.05	7,701.39	110.81	35.04	-90.95	-118.06	3,034.31	5,129.62	5,038.02	91.60	56.000		
15,300.00	7,730.00	7,874.34	7,701.68	112.44	35.04	-90.97	-118.06	3,034.31	5,228.40	5,136.78	91.62	57.066		
15,400.00	7,730.00	7,874.63	7,701.96	114.08	35.04	-90.99	-118.06	3,034.31	5,327.21	5,235.57	91.64	58.132		
15,500.00	7,730.00	7,874.91	7,702.25	115.72	35.04	-91.01	-118.06	3,034.31	5,426.08	5,334.42	91.66	59.198		
15,600.00	7,730.00	7,875.20	7,702.54	117.36	35.04	-91.03	-118.06	3,034.31	5,524.98	5,433.30	91.68	60.264		
15,700.00	7,730.00	7,875.49	7,702.83	119.00	35.05	-91.05	-118.06	3,034.31	5,623.92	5,532.22	91.70	61.329		
15,800.00	7,730.00	7,875.77	7,703.11	120.65	35.05	-91.07	-118.07	3,034.31	5,722.90	5,631.18	91.72	62.394		
15,900.00	7,730.00	7,876.06	7,703.40	122.30	35.05	-91.09	-118.07	3,034.31	5,821.91	5,730.17	91.74	63.459		
16,000.00	7,730.00	7,876.35	7,703.68	123.96	35.05	-91.11	-118.07	3,034.31	5,920.96	5,829.19	91.77	64.523		
16,100.00	7,730.00	7,876.63	7,703.97	125.61	35.05	-91.13	-118.07	3,034.31	6,020.04	5,928.25	91.79	65.587		
16,200.00	7,730.00	7,876.92	7,704.25	127.27	35.05	-91.15	-118.07	3,034.31	6,119.15	6,027.34	91.81	66.650		
16,300.00	7,730.00	7,877.20	7,704.54	128.94	35.05	-91.17	-118.07	3,034.31	6,218.28	6,126.45	91.83	67.713		
16,400.00	7,730.00	7,877.48	7,704.82	130.60	35.05	-91.19	-118.07	3,034.31	6,317.45	6,225.59	91.86	68.775		
16,500.00	7,730.00	7,877.77	7,705.10	132.27	35.05	-91.21	-118.07	3,034.31	6,416.64	6,324.75	91.88	69.837		
16,600.00	7,730.00	7,878.05	7,705.39	133.94	35.05	-91.23	-118.07	3,034.31	6,515.85	6,423.94	91.90	70.898		
16,700.00	7,730.00	7,878.33	7,705.67	135.61	35.05	-91.25	-118.07	3,034.31	6,615.09	6,523.16	91.93	71.958		
16,800.00	7,730.00	7,878.61	7,705.95	137.28	35.05	-91.27	-118.07	3,034.31	6,714.35	6,622.39	91.96	73.018		
16,900.00	7,730.00	7,878.90	7,706.23	138.96	35.05	-91.29	-118.07	3,034.31	6,813.63	6,721.65	91.98	74.077		
17,000.00	7,730.00	7,879.18	7,706.51	140.64	35.06	-91.31	-118.08	3,034.32	6,912.93	6,820.93	92.01	75.135		
17,100.00	7,730.00	7,879.46	7,706.80	142.32	35.06	-91.33	-118.08	3,034.32	7,012.26	6,920.22	92.03	76.192		
17,200.00	7,730.00	7,879.74	7,707.08	144.00	35.06	-91.35	-118.08	3,034.32	7,111.60	7,019.54	92.06	77.249		
17,300.00	7,730.00	7,880.02	7,707.35	145.69	35.06	-91.37	-118.08	3,034.32	7,210.96	7,118.87	92.09	78.305		
17,400.00	7,730.00	7,880.30	7,707.63	147.37	35.06	-91.39	-118.08	3,034.32	7,310.34	7,218.22	92.12	79.360		
17,500.00	7,730.00	7,880.57	7,707.91	149.06	35.06	-91.41	-118.08	3,034.32	7,409.73	7,317.58	92.15	80.414		
17,600.00	7,730.00	7,880.85	7,708.19	150.75	35.06	-91.43	-118.08	3,034.32	7,509.14	7,416.97	92.17	81.467		
17,700.00	7,730.00	7,881.13	7,708.47	152.44	35.06	-91.45	-118.08	3,034.32	7,608.57	7,516.36	92.20	82.519		
17,800.00	7,730.00	7,881.41	7,708.75	154.13	35.06	-91.47	-118.08	3,034.32	7,708.01	7,615.77	92.23	83.570		
17,900.00	7,730.00	7,881.69	7,709.02	155.83	35.06	-91.49	-118.08	3,034.32	7,807.46	7,715.20	92.26	84.621		
18,000.00	7,730.00	7,881.96	7,709.30	157.52	35.06	-91.51	-118.08	3,034.32	7,906.93	7,814.63	92.30	85.670		
18,100.00	7,730.00	7,882.24	7,709.58	159.22	35.06	-91.53	-118.08	3,034.32	8,006.41	7,914.09	92.33	86.719		
18,200.00	7,730.00	7,882.51	7,709.85	160.92	35.06	-91.55	-118.09	3,034.32	8,105.91	8,013.55	92.36	87.766		
18,300.00	7,730.00	7,882.79	7,710.13	162.62	35.07	-91.57	-118.09	3,034.32	8,205.41	8,113.02	92.39	88.812		
18,400.00	7,730.00	7,883.06	7,710.40	164.32	35.07	-91.59	-118.09	3,034.32	8,304.93	8,212.51	92.42	89.857		
18,426.22	7,730.00	7,883.14	7,710.47	164.76	35.07	-91.59	-118.09	3,034.32	8,331.03	8,238.60	92.43	90.131		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	82.16	747.02	5,424.61	5,476.42					
100.00	100.00	1,152.00	1,134.43	0.13	4.79	81.05	831.94	5,284.74	5,465.07	5,460.28	4.79	1,141.008		
200.00	200.00	1,210.56	1,191.08	0.49	5.11	80.96	839.00	5,271.70	5,444.84	5,439.61	5.23	1,040.664		
300.00	300.00	1,262.53	1,241.54	0.85	5.39	80.88	844.96	5,260.76	5,425.60	5,419.85	5.75	943.645		
400.00	400.00	1,342.70	1,319.46	1.21	5.81	80.75	854.05	5,244.28	5,406.92	5,400.49	6.43	840.763		
500.00	500.00	1,462.78	1,435.99	1.57	6.47	80.55	868.80	5,219.32	5,388.17	5,380.85	7.32	736.419		
600.00	600.00	1,651.62	1,618.37	1.93	7.53	80.20	894.73	5,177.84	5,368.55	5,360.01	8.55	628.016		
700.00	700.00	1,727.33	1,691.42	2.29	7.97	80.05	904.95	5,160.74	5,348.31	5,339.05	9.25	577.890		
800.00	800.00	1,823.08	1,783.83	2.64	8.51	79.87	917.81	5,139.20	5,328.20	5,318.15	10.06	529.728		
900.00	900.00	1,889.44	1,848.02	3.00	8.89	79.76	926.12	5,124.60	5,308.50	5,297.78	10.72	495.051		
1,000.00	1,000.00	1,944.55	1,901.50	3.36	9.19	79.66	932.49	5,112.91	5,289.49	5,278.15	11.33	466.785		
1,100.00	1,100.00	2,002.99	1,958.37	3.72	9.50	79.57	938.82	5,101.08	5,271.31	5,259.36	11.95	440.933		
1,200.00	1,200.00	2,150.74	2,102.07	4.08	10.30	79.33	955.43	5,070.94	5,253.16	5,240.18	12.97	404.896		
1,300.00	1,299.98	2,250.68	2,198.96	4.43	10.85	32.26	967.54	5,049.69	5,232.84	5,219.05	13.79	379.403		
1,400.00	1,399.84	2,323.05	2,269.16	4.79	11.25	32.41	976.46	5,034.49	5,209.97	5,195.49	14.49	359.648		
1,500.00	1,499.45	2,400.81	2,344.70	5.15	11.67	32.59	985.78	5,018.60	5,184.75	5,169.55	15.20	341.056		
1,600.00	1,598.70	2,506.34	2,447.15	5.51	12.25	32.79	998.98	4,997.01	5,156.79	5,140.75	16.04	321.423		
1,700.00	1,697.47	2,595.97	2,534.09	5.89	12.74	33.06	1,010.41	4,978.43	5,125.82	5,109.01	16.82	304.824		
1,800.00	1,795.62	2,668.03	2,604.12	6.28	13.13	33.40	1,019.14	4,963.88	5,092.49	5,074.98	17.51	290.899		
1,900.00	1,893.06	2,758.70	2,692.48	6.69	13.61	33.81	1,028.93	4,946.03	5,056.68	5,038.41	18.27	276.733		
2,000.00	1,989.64	2,985.22	2,911.80	7.13	14.88	34.24	1,057.08	4,897.01	5,016.24	4,996.58	19.66	255.167		
2,100.00	2,085.27	3,042.22	2,966.87	7.61	15.21	34.79	1,064.37	4,884.24	4,972.93	4,952.63	20.31	244.887		
2,200.00	2,179.82	3,098.16	3,020.89	8.12	15.53	35.38	1,072.20	4,871.96	4,927.66	4,906.69	20.96	235.058		
2,300.00	2,273.17	3,204.33	3,123.22	8.67	16.15	36.04	1,088.36	4,848.75	4,880.14	4,858.27	21.87	223.181		
2,400.00	2,365.21	3,271.58	3,187.97	9.27	16.54	36.76	1,098.82	4,833.90	4,830.00	4,807.40	22.61	213.659		
2,500.00	2,455.84	3,377.55	3,290.01	9.92	17.16	37.61	1,115.51	4,810.68	4,777.67	4,754.13	23.54	202.996		
2,580.62	2,527.80	3,492.68	3,400.82	10.49	17.84	38.42	1,132.67	4,784.56	4,733.13	4,708.71	24.42	193.821		
2,600.00	2,544.97	3,513.06	3,420.44	10.63	17.96	38.46	1,135.51	4,779.86	4,722.17	4,697.57	24.60	191.964		
2,700.00	2,633.58	3,585.00	3,489.82	11.37	18.38	38.59	1,144.71	4,763.24	4,665.42	4,640.04	25.38	183.832		
2,800.00	2,722.19	3,637.79	3,540.87	12.13	18.68	38.70	1,151.02	4,751.33	4,609.10	4,583.01	26.09	176.679		
2,900.00	2,810.80	3,679.00	3,580.81	12.91	18.91	38.79	1,155.94	4,742.47	4,553.59	4,526.82	26.77	170.121		
3,000.00	2,899.41	3,796.03	3,694.15	13.71	19.57	39.04	1,170.22	4,717.07	4,497.92	4,470.16	27.75	162.072		
3,100.00	2,988.02	3,850.06	3,746.46	14.52	19.88	39.15	1,177.08	4,705.38	4,442.46	4,413.95	28.51	155.820		
3,200.00	3,076.63	3,973.14	3,865.54	15.34	20.57	39.42	1,192.85	4,678.58	4,386.93	4,357.40	29.54	148.526		
3,300.00	3,165.24	4,024.25	3,915.04	16.16	20.86	39.53	1,199.00	4,667.44	4,331.34	4,301.03	30.30	142.943		
3,400.00	3,253.85	4,072.80	3,962.20	17.00	21.12	39.66	1,204.47	4,657.27	4,276.38	4,245.31	31.06	137.660		
3,500.00	3,342.46	4,117.39	4,005.64	17.84	21.36	39.78	1,209.14	4,648.37	4,222.17	4,190.35	31.82	132.688		
3,600.00	3,431.07	4,150.00	4,037.49	18.69	21.53	39.87	1,212.31	4,642.14	4,168.81	4,136.26	32.55	128.080		
3,700.00	3,519.68	4,211.14	4,097.39	19.55	21.83	40.06	1,217.64	4,631.10	4,116.15	4,082.79	33.36	123.372		
3,800.00	3,608.29	4,243.00	4,128.69	20.40	21.98	40.16	1,220.06	4,625.66	4,064.38	4,030.28	34.10	119.179		
3,900.00	3,696.90	4,292.43	4,177.38	21.26	22.20	40.34	1,223.40	4,617.80	4,013.52	3,978.63	34.89	115.029		
4,000.00	3,785.51	4,337.00	4,221.41	22.13	22.40	40.51	1,226.03	4,611.43	3,963.80	3,928.13	35.68	111.102		
4,100.00	3,874.12	4,367.57	4,251.68	23.00	22.52	40.63	1,227.67	4,607.44	3,915.16	3,878.74	36.43	107.477		
4,200.00	3,962.73	4,405.82	4,289.59	23.87	22.68	40.78	1,229.61	4,602.89	3,867.68	3,830.47	37.21	103.950		
4,300.00	4,051.34	4,452.41	4,335.87	24.74	22.86	40.97	1,231.78	4,597.94	3,821.32	3,783.31	38.01	100.526		
4,400.00	4,139.95	4,512.51	4,395.64	25.62	23.08	41.24	1,234.08	4,592.06	3,775.77	3,736.91	38.86	97.168		
4,500.00	4,228.56	4,561.55	4,444.46	26.49	23.25	41.46	1,235.60	4,587.69	3,731.07	3,691.39	39.68	94.026		
4,600.00	4,317.17	4,617.00	4,499.72	27.37	23.44	41.72	1,237.26	4,583.40	3,687.45	3,646.92	40.53	90.986		
4,700.00	4,405.78	4,655.96	4,538.59	28.25	23.56	41.91	1,238.24	4,580.83	3,644.89	3,603.55	41.34	88.175		
4,800.00	4,494.39	4,710.00	4,592.54	29.13	23.73	42.18	1,239.10	4,577.88	3,603.49	3,561.30	42.19	85.409		
4,900.00	4,583.00	4,761.08	4,643.56	30.02	23.88	42.45	1,239.35	4,575.64	3,563.12	3,520.09	43.04	82.792		
5,000.00	4,671.61	4,821.34	4,703.79	30.90	24.04	42.79	1,239.02	4,573.48	3,523.68	3,479.76	43.91	80.241		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,884.88	4,767.30	31.79	24.21	43.15	1,238.79	4,571.65	3,485.10	3,440.29	44.81	77.782		
5,200.00	4,848.83	4,934.20	4,816.60	32.67	24.34	43.43	1,238.82	4,570.63	3,447.51	3,401.84	45.67	75.487		
5,300.00	4,937.44	4,991.00	4,873.40	33.56	24.48	43.75	1,238.78	4,570.24	3,411.28	3,364.72	46.56	73.267		
5,400.00	5,026.05	5,063.59	4,945.99	34.45	24.65	44.17	1,238.67	4,570.24	3,375.97	3,328.48	47.49	71.082		
5,500.00	5,114.66	5,172.34	5,054.75	35.34	24.91	44.82	1,238.55	4,569.90	3,340.71	3,292.17	48.54	68.823		
5,600.00	5,203.27	5,273.29	5,155.70	36.23	25.17	45.43	1,238.44	4,569.04	3,305.23	3,255.64	49.59	66.655		
5,700.00	5,291.88	5,356.49	5,238.89	37.12	25.39	45.95	1,238.35	4,568.24	3,269.96	3,219.36	50.60	64.620		
5,800.00	5,380.50	5,449.40	5,331.79	38.01	25.64	46.53	1,238.36	4,567.37	3,235.00	3,183.34	51.66	62.622		
5,900.00	5,469.11	5,546.64	5,429.02	38.90	25.90	47.16	1,238.18	4,566.23	3,200.15	3,147.41	52.74	60.679		
6,000.00	5,557.72	5,653.68	5,536.04	39.79	26.19	47.88	1,237.45	4,564.51	3,165.24	3,111.38	53.86	58.771		
6,100.00	5,646.33	5,754.76	5,637.10	40.68	26.46	48.58	1,236.56	4,562.35	3,130.22	3,075.25	54.98	56.939		
6,200.00	5,734.94	5,839.67	5,721.99	41.58	26.70	49.17	1,235.79	4,560.42	3,095.44	3,039.37	56.07	55.207		
6,300.00	5,823.55	5,928.55	5,810.83	42.47	26.94	49.81	1,234.84	4,558.38	3,061.00	3,003.82	57.19	53.525		
6,400.00	5,912.16	6,000.75	5,883.01	43.36	27.14	50.34	1,233.97	4,556.89	3,027.16	2,968.88	58.28	51.942		
6,500.00	6,000.77	6,086.01	5,968.26	44.26	27.38	50.98	1,232.95	4,555.41	2,994.02	2,934.60	59.42	50.388		
6,600.00	6,089.38	6,173.43	6,055.66	45.15	27.62	51.65	1,232.08	4,553.89	2,961.26	2,900.68	60.58	48.881		
6,700.00	6,177.99	6,263.19	6,145.41	46.05	27.87	52.33	1,231.67	4,552.38	2,928.93	2,867.16	61.77	47.420		
6,800.00	6,266.60	6,366.66	6,248.86	46.94	28.18	53.12	1,232.05	4,550.46	2,896.80	2,833.80	63.00	45.979		
6,900.00	6,355.21	6,450.45	6,332.62	47.84	28.43	53.75	1,233.31	4,548.69	2,864.75	2,800.55	64.20	44.621		
7,000.00	6,443.82	6,525.01	6,407.16	48.74	28.66	54.33	1,234.22	4,547.42	2,833.50	2,768.10	65.39	43.331		
7,100.00	6,532.43	6,599.74	6,481.88	49.63	28.88	54.92	1,234.90	4,546.50	2,803.12	2,736.52	66.60	42.091		
7,200.00	6,621.04	6,675.60	6,557.74	50.53	29.10	55.54	1,235.13	4,545.84	2,773.60	2,705.79	67.82	40.899		
7,300.00	6,709.65	6,759.29	6,641.43	51.42	29.34	56.24	1,235.05	4,545.33	2,744.85	2,675.77	69.07	39.738		
7,400.00	6,798.26	6,839.82	6,721.96	52.32	29.56	56.93	1,234.82	4,544.99	2,716.79	2,646.46	70.33	38.628		
7,500.00	6,886.87	6,926.24	6,808.38	53.22	29.80	57.68	1,234.31	4,544.77	2,689.45	2,617.83	71.62	37.552		
7,600.00	6,975.48	7,010.73	6,892.86	54.12	30.03	58.43	1,233.87	4,544.60	2,662.70	2,589.78	72.91	36.518		
7,656.30	7,025.36	7,057.63	6,939.76	54.62	30.15	58.85	1,233.56	4,544.58	2,647.96	2,574.32	73.65	35.955		
7,700.00	7,064.54	7,097.29	6,979.42	55.00	30.26	59.87	1,233.33	4,544.57	2,636.13	2,561.94	74.20	35.529		
7,750.00	7,110.29	7,143.65	7,025.79	55.40	30.39	59.67	1,233.13	4,544.58	2,621.45	2,546.70	74.75	35.069		
7,800.00	7,156.67	7,184.83	7,066.96	55.75	30.50	59.38	1,232.96	4,544.62	2,605.63	2,530.43	75.20	34.648		
7,850.00	7,203.34	7,226.40	7,108.54	56.05	30.61	59.88	1,232.76	4,544.74	2,588.80	2,513.24	75.56	34.260		
7,900.00	7,249.95	7,275.31	7,157.43	56.30	30.74	-2.70	1,232.51	4,544.92	2,571.02	2,495.17	75.85	33.894		
7,950.00	7,296.14	7,326.20	7,208.33	56.50	30.88	-16.02	1,232.31	4,545.04	2,552.29	2,476.24	76.06	33.558		
8,000.00	7,341.56	7,374.53	7,256.66	56.64	31.01	-27.60	1,232.16	4,545.09	2,532.78	2,456.62	76.17	33.253		
8,050.00	7,385.86	7,421.50	7,303.62	56.74	31.14	-37.45	1,232.03	4,545.09	2,512.70	2,436.52	76.18	32.983		
8,100.00	7,428.71	7,466.89	7,349.02	56.79	31.27	-45.86	1,231.91	4,545.04	2,492.26	2,416.15	76.11	32.747		
8,150.00	7,469.77	7,510.38	7,392.51	56.80	31.39	-53.11	1,231.80	4,544.95	2,471.69	2,395.75	75.94	32.548		
8,200.00	7,508.75	7,549.34	7,431.47	56.77	31.50	-59.42	1,231.70	4,544.85	2,451.28	2,375.60	75.68	32.389		
8,250.00	7,545.33	7,585.57	7,467.69	56.70	31.61	-64.97	1,231.57	4,544.76	2,431.31	2,355.97	75.34	32.270		
8,300.00	7,579.25	7,617.96	7,500.09	56.59	31.70	-69.85	1,231.43	4,544.67	2,412.08	2,337.16	74.92	32.195		
8,350.00	7,610.24	7,644.54	7,526.67	56.45	31.77	-74.08	1,231.32	4,544.65	2,393.89	2,319.47	74.42	32.168 SF		
8,400.00	7,638.06	7,668.44	7,550.57	56.28	31.84	-77.77	1,231.24	4,544.67	2,377.04	2,303.18	73.86	32.185		
8,450.00	7,662.52	7,689.46	7,571.59	56.09	31.90	-80.93	1,231.17	4,544.72	2,361.77	2,288.53	73.24	32.247		
8,500.00	7,683.41	7,707.58	7,589.71	55.88	31.95	-83.60	1,231.12	4,544.80	2,348.33	2,275.75	72.58	32.353		
8,550.00	7,700.59	7,723.03	7,605.16	55.64	31.99	-85.77	1,231.07	4,544.87	2,336.94	2,265.04	71.90	32.504		
8,600.00	7,713.91	7,735.09	7,617.21	55.39	32.03	-87.46	1,231.03	4,544.94	2,327.78	2,256.59	71.19	32.697		
8,650.00	7,723.29	7,743.64	7,625.76	55.14	32.05	-88.66	1,231.00	4,545.00	2,321.02	2,250.53	70.48	32.930		
8,700.00	7,728.64	7,748.60	7,630.73	54.87	32.06	-89.38	1,230.99	4,545.03	2,316.76	2,246.98	69.78	33.201		
8,740.83	7,730.00	7,749.96	7,632.08	54.65	32.07	-89.61	1,230.98	4,545.04	2,315.19	2,245.98	69.22	33.448 ES		
8,780.36	7,730.00	7,750.09	7,632.22	54.44	32.07	-89.61	1,230.98	4,545.04	2,314.86	2,246.16	68.70	33.696 CC		
8,800.00	7,730.00	7,750.16	7,632.29	54.33	32.07	-89.61	1,230.98	4,545.04	2,314.94	2,246.49	68.45	33.821		
8,900.00	7,730.00	7,750.50	7,632.63	53.82	32.07	-89.62	1,230.98	4,545.04	2,317.95	2,250.65	67.30	34.443		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,750.84	7,632.97	53.33	32.07	-89.63	1,230.98	4,545.05	2,325.25	2,258.89	66.37	35.037		
9,100.00	7,730.00	7,751.19	7,633.31	52.87	32.07	-89.64	1,230.98	4,545.05	2,336.82	2,271.15	65.68	35.581		
9,200.00	7,730.00	7,751.54	7,633.66	52.44	32.07	-89.65	1,230.97	4,545.05	2,352.59	2,287.34	65.24	36.059		
9,300.00	7,730.00	7,751.88	7,634.01	52.03	32.07	-89.65	1,230.97	4,545.05	2,372.46	2,307.39	65.08	36.457		
9,400.00	7,730.00	7,752.23	7,634.36	51.65	32.07	-89.66	1,230.97	4,545.06	2,396.35	2,331.18	65.17	36.770		
9,500.00	7,730.00	7,752.58	7,634.71	51.29	32.07	-89.67	1,230.97	4,545.06	2,424.14	2,358.62	65.51	37.003		
9,600.00	7,730.00	7,752.94	7,635.06	50.95	32.07	-89.68	1,230.97	4,545.06	2,455.68	2,389.60	66.08	37.163		
9,700.00	7,730.00	7,753.29	7,635.41	50.64	32.07	-89.69	1,230.97	4,545.06	2,490.84	2,424.00	66.84	37.266		
9,800.00	7,730.00	7,753.64	7,635.77	50.35	32.08	-89.70	1,230.97	4,545.07	2,529.47	2,461.71	67.76	37.328		
9,900.00	7,730.00	7,754.00	7,636.13	50.09	32.08	-89.71	1,230.96	4,545.07	2,571.41	2,502.59	68.82	37.366		
10,000.00	7,730.00	7,754.36	7,636.49	49.86	32.08	-89.72	1,230.96	4,545.07	2,616.50	2,546.53	69.97	37.395		
10,100.00	7,730.00	7,754.72	7,636.85	49.65	32.08	-89.72	1,230.96	4,545.07	2,664.58	2,593.39	71.19	37.429		
10,200.00	7,730.00	7,755.08	7,637.21	49.48	32.08	-89.73	1,230.96	4,545.08	2,715.50	2,643.04	72.46	37.478		
10,300.00	7,730.00	7,755.45	7,637.57	49.35	32.08	-89.74	1,230.96	4,545.08	2,769.09	2,695.34	73.75	37.549		
10,400.00	7,730.00	7,755.81	7,637.94	49.27	32.08	-89.75	1,230.96	4,545.08	2,825.20	2,750.16	75.04	37.649		
10,500.00	7,730.00	7,756.18	7,638.31	49.26	32.08	-89.76	1,230.96	4,545.08	2,883.69	2,807.37	76.33	37.781		
10,600.00	7,730.00	7,756.55	7,638.68	49.32	32.08	-89.77	1,230.95	4,545.09	2,944.42	2,866.83	77.59	37.946		
10,700.00	7,730.00	7,756.92	7,639.05	49.51	32.08	-89.78	1,230.95	4,545.09	3,007.25	2,928.41	78.83	38.147		
10,800.00	7,730.00	7,757.29	7,639.42	49.83	32.09	-89.79	1,230.95	4,545.09	3,072.05	2,992.01	80.04	38.382		
10,900.00	7,730.00	7,757.67	7,639.79	50.31	32.09	-89.80	1,230.95	4,545.09	3,138.69	3,057.49	81.21	38.651		
11,000.00	7,730.00	7,758.04	7,640.17	50.96	32.09	-89.81	1,230.95	4,545.10	3,207.07	3,124.74	82.33	38.953		
11,100.00	7,730.00	7,758.42	7,640.55	51.75	32.09	-89.82	1,230.95	4,545.10	3,277.08	3,193.66	83.41	39.287		
11,200.00	7,730.00	7,758.80	7,640.93	52.66	32.09	-89.82	1,230.95	4,545.10	3,348.61	3,264.15	84.45	39.651		
11,300.00	7,730.00	7,759.18	7,641.31	53.67	32.09	-89.83	1,230.94	4,545.10	3,421.56	3,336.11	85.45	40.043		
11,400.00	7,730.00	7,759.57	7,641.69	54.75	32.09	-89.84	1,230.94	4,545.11	3,495.85	3,409.46	86.40	40.463		
11,500.00	7,730.00	7,759.95	7,642.08	55.89	32.09	-89.85	1,230.94	4,545.11	3,571.40	3,484.10	87.31	40.907		
11,600.00	7,730.00	7,760.34	7,642.46	57.07	32.09	-89.86	1,230.94	4,545.11	3,648.13	3,559.96	88.17	41.375		
11,700.00	7,730.00	7,760.73	7,642.85	58.30	32.10	-89.87	1,230.94	4,545.12	3,725.96	3,636.96	89.00	41.865		
11,800.00	7,730.00	7,761.12	7,643.24	59.55	32.10	-89.88	1,230.94	4,545.12	3,804.82	3,715.04	89.79	42.376		
11,900.00	7,730.00	7,761.51	7,643.64	60.84	32.10	-89.89	1,230.93	4,545.12	3,884.66	3,794.13	90.54	42.907		
12,000.00	7,730.00	7,761.90	7,644.03	62.15	32.10	-89.90	1,230.93	4,545.12	3,965.42	3,874.16	91.25	43.455		
12,100.00	7,730.00	7,762.30	7,644.43	63.49	32.10	-89.91	1,230.93	4,545.13	4,047.03	3,955.09	91.93	44.021		
12,200.00	7,730.00	7,762.70	7,644.82	64.85	32.10	-89.92	1,230.93	4,545.13	4,129.45	4,036.87	92.58	44.602		
12,300.00	7,730.00	7,763.10	7,645.22	66.22	32.10	-89.93	1,230.93	4,545.13	4,212.63	4,119.43	93.20	45.198		
12,400.00	7,730.00	7,763.50	7,645.63	67.62	32.10	-89.94	1,230.93	4,545.14	4,296.53	4,202.74	93.80	45.808		
12,500.00	7,730.00	7,763.91	7,646.03	69.03	32.10	-89.95	1,230.92	4,545.14	4,381.11	4,286.75	94.36	46.430		
12,600.00	7,730.00	7,764.31	7,646.44	70.45	32.10	-89.96	1,230.92	4,545.14	4,466.32	4,371.42	94.90	47.065		
12,700.00	7,730.00	7,764.72	7,646.85	71.90	32.11	-89.97	1,230.92	4,545.15	4,552.14	4,456.73	95.41	47.711		
12,800.00	7,730.00	7,765.13	7,647.26	73.35	32.11	-89.98	1,230.92	4,545.15	4,638.52	4,542.62	95.90	48.368		
12,900.00	7,730.00	7,765.54	7,647.67	74.81	32.11	-89.99	1,230.92	4,545.15	4,725.44	4,629.07	96.37	49.034		
13,000.00	7,730.00	7,765.96	7,648.08	76.29	32.11	-90.00	1,230.92	4,545.15	4,812.87	4,716.05	96.82	49.710		
13,100.00	7,730.00	7,766.37	7,648.50	77.78	32.11	-90.01	1,230.91	4,545.16	4,900.78	4,803.53	97.25	50.395		
13,200.00	7,730.00	7,766.79	7,648.92	79.28	32.11	-90.02	1,230.91	4,545.16	4,989.14	4,891.48	97.66	51.088		
13,300.00	7,730.00	7,767.21	7,649.34	80.79	32.11	-90.03	1,230.91	4,545.16	5,077.94	4,979.89	98.05	51.788		
13,400.00	7,730.00	7,767.63	7,649.76	82.31	32.11	-90.04	1,230.91	4,545.17	5,167.14	5,068.71	98.43	52.496		
13,500.00	7,730.00	7,768.06	7,650.18	83.84	32.12	-90.05	1,230.91	4,545.17	5,256.74	5,157.95	98.79	53.211		
13,600.00	7,730.00	7,768.49	7,650.61	85.37	32.12	-90.06	1,230.91	4,545.17	5,346.70	5,247.56	99.14	53.932		
13,700.00	7,730.00	7,768.92	7,651.04	86.92	32.12	-90.08	1,230.90	4,545.18	5,437.01	5,337.54	99.47	54.659		
13,800.00	7,730.00	7,769.35	7,651.47	88.47	32.12	-90.09	1,230.90	4,545.18	5,527.66	5,427.87	99.79	55.392		
13,900.00	7,730.00	7,769.78	7,651.90	90.03	32.12	-90.10	1,230.90	4,545.18	5,618.62	5,518.52	100.10	56.130		
14,000.00	7,730.00	7,770.22	7,652.34	91.59	32.12	-90.11	1,230.90	4,545.19	5,709.89	5,609.49	100.40	56.874		
14,100.00	7,730.00	7,770.65	7,652.78	93.16	32.12	-90.12	1,230.90	4,545.19	5,801.44	5,700.76	100.68	57.622		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,771.09	7,653.22	94.74	32.12	-90.13	1,230.89	4,545.19	5,893.27	5,792.32	100.96	58.375		
14,300.00	7,730.00	7,771.54	7,653.66	96.33	32.12	-90.14	1,230.89	4,545.20	5,985.36	5,884.14	101.22	59.131		
14,400.00	7,730.00	7,771.98	7,654.11	97.92	32.13	-90.15	1,230.89	4,545.20	6,077.70	5,976.23	101.48	59.892		
14,500.00	7,730.00	7,772.43	7,654.55	99.51	32.13	-90.16	1,230.89	4,545.21	6,170.28	6,068.56	101.72	60.657		
14,600.00	7,730.00	7,772.88	7,655.00	101.11	32.13	-90.17	1,230.89	4,545.21	6,263.09	6,161.13	101.96	61.425		
14,700.00	7,730.00	7,773.33	7,655.45	102.72	32.13	-90.18	1,230.88	4,545.21	6,356.12	6,253.92	102.19	62.197		
14,800.00	7,730.00	7,773.78	7,655.91	104.33	32.13	-90.20	1,230.88	4,545.22	6,449.35	6,346.93	102.42	62.972		
14,900.00	7,730.00	7,774.24	7,656.36	105.94	32.13	-90.21	1,230.88	4,545.22	6,542.79	6,440.15	102.63	63.750		
15,000.00	7,730.00	7,774.70	7,656.82	107.56	32.13	-90.22	1,230.88	4,545.22	6,636.41	6,533.57	102.84	64.531		
15,100.00	7,730.00	7,775.16	7,657.28	109.18	32.13	-90.23	1,230.88	4,545.23	6,730.22	6,627.18	103.04	65.314		
15,200.00	7,730.00	7,775.62	7,657.75	110.81	32.14	-90.24	1,230.87	4,545.23	6,824.20	6,720.96	103.24	66.100		
15,300.00	7,730.00	7,776.09	7,658.21	112.44	32.14	-90.25	1,230.87	4,545.23	6,918.36	6,814.93	103.43	66.889		
15,400.00	7,730.00	7,776.55	7,658.68	114.08	32.14	-90.26	1,230.87	4,545.24	7,012.67	6,909.06	103.62	67.680		
15,500.00	7,730.00	7,777.03	7,659.15	115.72	32.14	-90.28	1,230.87	4,545.24	7,107.14	7,003.35	103.79	68.473		
15,600.00	7,730.00	7,777.50	7,659.62	117.36	32.14	-90.29	1,230.87	4,545.25	7,201.76	7,097.79	103.97	69.268		
15,700.00	7,730.00	7,777.97	7,660.10	119.00	32.14	-90.30	1,230.86	4,545.25	7,296.53	7,192.39	104.14	70.065		
15,800.00	7,730.00	7,778.45	7,660.58	120.65	32.14	-90.31	1,230.86	4,545.25	7,391.43	7,287.12	104.30	70.864		
15,900.00	7,730.00	7,778.93	7,661.06	122.30	32.14	-90.32	1,230.86	4,545.26	7,486.46	7,382.00	104.47	71.664		
16,000.00	7,730.00	7,779.42	7,661.54	123.96	32.15	-90.34	1,230.86	4,545.26	7,581.62	7,477.00	104.62	72.467		
16,100.00	7,730.00	7,779.90	7,662.03	125.61	32.15	-90.35	1,230.85	4,545.27	7,676.91	7,572.13	104.78	73.270		
16,200.00	7,730.00	7,780.39	7,662.52	127.27	32.15	-90.36	1,230.85	4,545.27	7,772.31	7,667.39	104.92	74.076		
16,300.00	7,730.00	7,780.88	7,663.01	128.94	32.15	-90.37	1,230.85	4,545.27	7,867.83	7,762.76	105.07	74.882		
16,400.00	7,730.00	7,781.38	7,663.50	130.60	32.15	-90.38	1,230.85	4,545.28	7,963.46	7,858.24	105.21	75.690		
16,500.00	7,730.00	7,781.87	7,664.00	132.27	32.15	-90.40	1,230.85	4,545.28	8,059.19	7,953.84	105.35	76.499		
16,600.00	7,730.00	7,782.37	7,664.50	133.94	32.15	-90.41	1,230.84	4,545.29	8,155.02	8,049.54	105.49	77.309		
16,700.00	7,730.00	7,782.88	7,665.00	135.61	32.16	-90.42	1,230.84	4,545.29	8,250.96	8,145.34	105.62	78.121		
16,800.00	7,730.00	7,783.38	7,665.50	137.28	32.16	-90.43	1,230.84	4,545.29	8,346.99	8,241.24	105.75	78.933		
16,900.00	7,730.00	7,783.89	7,666.01	138.96	32.16	-90.45	1,230.84	4,545.30	8,443.11	8,337.24	105.87	79.746		
17,000.00	7,730.00	7,784.40	7,666.52	140.64	32.16	-90.46	1,230.83	4,545.30	8,539.32	8,433.32	106.00	80.560		
17,100.00	7,730.00	7,784.91	7,667.04	142.32	32.16	-90.47	1,230.83	4,545.31	8,635.62	8,529.50	106.12	81.375		
17,200.00	7,730.00	7,785.43	7,667.55	144.00	32.16	-90.48	1,230.83	4,545.31	8,732.00	8,625.76	106.24	82.191		
17,300.00	7,730.00	7,785.95	7,668.07	145.69	32.16	-90.50	1,230.83	4,545.32	8,828.46	8,722.10	106.36	83.007		
17,400.00	7,730.00	7,786.47	7,668.59	147.37	32.17	-90.51	1,230.82	4,545.32	8,925.00	8,818.53	106.47	83.825		
17,500.00	7,730.00	7,786.99	7,669.12	149.06	32.17	-90.52	1,230.82	4,545.33	9,021.61	8,915.03	106.59	84.642		
17,600.00	7,730.00	7,787.52	7,669.65	150.75	32.17	-90.54	1,230.82	4,545.33	9,118.30	9,011.61	106.70	85.461		
17,700.00	7,730.00	7,788.05	7,670.18	152.44	32.17	-90.55	1,230.82	4,545.33	9,215.06	9,108.25	106.81	86.279		
17,800.00	7,730.00	7,788.59	7,670.71	154.13	32.17	-90.56	1,230.81	4,545.34	9,311.89	9,204.97	106.91	87.099		
17,900.00	7,730.00	7,789.12	7,671.25	155.83	32.17	-90.58	1,230.81	4,545.34	9,408.78	9,301.76	107.02	87.918		
18,000.00	7,730.00	7,789.66	7,671.79	157.52	32.17	-90.59	1,230.81	4,545.35	9,505.74	9,398.61	107.12	88.738		
18,100.00	7,730.00	7,790.20	7,672.33	159.22	32.18	-90.60	1,230.81	4,545.35	9,602.75	9,495.53	107.22	89.559		
18,200.00	7,730.00	7,790.75	7,672.87	160.92	32.18	-90.62	1,230.80	4,545.36	9,699.83	9,592.51	107.32	90.379		
18,300.00	7,730.00	7,791.30	7,673.42	162.62	32.18	-90.63	1,230.80	4,545.36	9,796.97	9,689.55	107.42	91.200		
18,400.00	7,730.00	7,791.85	7,673.98	164.32	32.18	-90.64	1,230.80	4,545.37	9,894.17	9,786.65	107.52	92.021		
18,426.22	7,730.00	7,792.00	7,674.12	164.76	32.18	-90.65	1,230.80	4,545.37	9,919.66	9,812.12	107.55	92.237		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	82.13	750.66	5,433.01	5,485.23					
100.00	100.00	34.62	34.62	0.13	0.05	82.13	750.65	5,432.96	5,484.59	5,484.41	0.19	N/A		
200.00	200.00	156.20	156.20	0.49	0.40	82.13	750.49	5,432.21	5,483.94	5,483.06	0.89	6,173.898		
300.00	300.00	247.39	247.39	0.85	0.72	82.13	750.46	5,431.64	5,483.32	5,481.74	1.57	3,485.616		
400.00	400.00	353.61	353.61	1.21	1.10	82.13	750.57	5,431.01	5,482.75	5,480.43	2.31	2,371.728		
492.77	492.77	410.79	410.78	1.54	1.30	82.14	750.09	5,430.90	5,482.45	5,479.61	2.84	1,928.452		
500.00	500.00	415.29	415.28	1.57	1.32	82.14	750.00	5,430.91	5,482.45	5,479.57	2.88	1,900.654		
600.00	600.00	479.90	479.86	1.93	1.54	82.16	748.01	5,431.43	5,482.83	5,479.37	3.47	1,581.476		
700.00	700.00	534.00	533.87	2.29	1.73	82.19	745.22	5,432.34	5,483.86	5,479.85	4.01	1,366.808		
800.00	800.00	590.06	589.77	2.64	1.93	82.23	741.23	5,433.88	5,485.70	5,481.13	4.57	1,200.251		
900.00	900.00	646.87	646.30	3.00	2.14	82.29	736.05	5,436.21	5,488.50	5,483.36	5.13	1,068.845		
1,000.00	1,000.00	716.00	714.86	3.36	2.39	82.38	727.90	5,439.56	5,491.80	5,486.05	5.75	954.860		
1,100.00	1,100.00	763.37	761.67	3.72	2.58	82.45	721.21	5,442.35	5,495.91	5,489.61	6.30	872.833		
1,200.00	1,200.00	809.00	806.60	4.08	2.77	82.53	714.02	5,445.70	5,501.13	5,494.29	6.84	804.800		
1,300.00	1,299.98	853.71	850.51	4.43	2.96	35.44	706.43	5,449.48	5,505.93	5,498.55	7.38	746.412		
1,400.00	1,399.84	902.00	897.80	4.79	3.17	35.52	697.79	5,453.97	5,508.80	5,500.87	7.93	694.696		
1,500.00	1,499.45	964.09	958.45	5.15	3.45	35.67	686.13	5,460.30	5,509.65	5,501.10	8.56	643.792		
1,600.00	1,598.70	1,024.24	1,017.05	5.51	3.73	35.86	674.26	5,466.91	5,508.47	5,499.28	9.19	599.563		
1,700.00	1,697.47	1,092.51	1,083.21	5.89	4.07	36.12	659.47	5,474.97	5,505.19	5,495.32	9.87	557.641		
1,800.00	1,795.62	1,223.75	1,210.24	6.28	4.74	36.66	630.36	5,490.44	5,499.28	5,488.39	10.89	504.799		
1,900.00	1,893.06	1,290.70	1,275.32	6.69	5.09	37.01	616.61	5,497.99	5,490.47	5,478.88	11.60	473.366		
2,000.00	1,989.64	1,345.19	1,328.22	7.13	5.37	37.35	605.33	5,504.58	5,479.79	5,467.54	12.25	447.270		
2,100.00	2,085.27	1,432.32	1,412.56	7.61	5.83	37.88	586.37	5,515.47	5,466.95	5,453.85	13.10	417.420		
2,200.00	2,179.82	1,504.11	1,481.77	8.12	6.23	38.40	569.63	5,524.65	5,451.86	5,437.97	13.89	392.380		
2,300.00	2,273.17	1,606.43	1,580.14	8.67	6.81	39.13	544.79	5,537.90	5,434.54	5,419.65	14.89	365.027		
2,400.00	2,365.21	1,726.26	1,695.75	9.27	7.48	40.00	516.93	5,552.63	5,414.39	5,398.40	16.00	338.465		
2,500.00	2,455.84	1,784.47	1,752.06	9.92	7.80	40.61	504.01	5,559.78	5,392.08	5,375.29	16.79	321.160		
2,580.62	2,527.80	1,850.08	1,815.52	10.49	8.16	41.23	489.58	5,568.05	5,372.76	5,355.21	17.55	306.109		
2,600.00	2,544.97	1,869.71	1,834.52	10.63	8.27	41.34	485.27	5,570.51	5,367.94	5,350.18	17.76	302.260		
2,700.00	2,633.58	2,004.68	1,965.35	11.37	9.01	42.11	456.40	5,586.77	5,343.02	5,324.01	19.01	281.018		
2,800.00	2,722.19	2,062.86	2,021.79	12.13	9.33	42.44	444.05	5,593.65	5,318.33	5,298.45	19.88	267.583		
2,900.00	2,810.80	2,167.56	2,123.07	12.91	9.91	43.05	420.63	5,606.09	5,294.19	5,273.17	21.02	251.898		
3,000.00	2,899.41	2,284.17	2,235.61	13.71	10.58	43.75	393.01	5,619.17	5,269.99	5,247.73	22.26	236.783		
3,100.00	2,988.02	2,406.37	2,353.95	14.52	11.25	44.47	365.45	5,632.13	5,245.79	5,222.27	23.53	222.972		
3,200.00	3,076.63	2,513.79	2,458.57	15.34	11.82	45.09	343.53	5,642.73	5,221.37	5,196.66	24.71	211.289		
3,300.00	3,165.24	2,554.00	2,497.69	16.16	12.04	45.33	335.11	5,646.65	5,197.56	5,172.00	25.56	203.372		
3,400.00	3,253.85	2,608.44	2,550.56	17.00	12.34	45.65	323.45	5,652.32	5,174.76	5,148.26	26.49	195.313		
3,500.00	3,342.46	2,648.00	2,588.90	17.84	12.55	45.89	314.83	5,656.89	5,153.28	5,125.92	27.36	188.338		
3,600.00	3,431.07	2,827.19	2,762.69	18.69	13.54	46.98	275.55	5,675.90	5,131.23	5,102.23	29.01	176.905		
3,700.00	3,519.68	2,895.74	2,829.11	19.55	13.92	47.40	260.06	5,682.81	5,109.68	5,079.62	30.06	169.968		
3,800.00	3,608.29	2,975.95	2,906.68	20.40	14.37	47.91	241.36	5,691.04	5,088.87	5,057.67	31.20	163.124		
3,900.00	3,696.90	3,044.69	2,973.24	21.26	14.76	48.34	225.74	5,698.08	5,068.58	5,036.31	32.28	157.042		
4,000.00	3,785.51	3,088.96	3,016.06	22.13	15.01	48.62	215.56	5,702.89	5,049.38	5,016.16	33.22	151.980		
4,100.00	3,874.12	3,146.20	3,071.32	23.00	15.33	48.98	202.20	5,709.51	5,031.33	4,997.08	34.25	146.888		
4,200.00	3,962.73	3,245.28	3,167.15	23.87	15.89	49.61	179.89	5,721.19	5,014.01	4,978.49	35.52	141.149		
4,300.00	4,051.34	3,372.81	3,290.93	24.74	16.59	50.41	152.61	5,735.29	4,996.42	4,959.47	36.95	135.221		
4,400.00	4,139.95	3,450.89	3,366.52	25.62	17.03	50.91	134.87	5,743.51	4,979.21	4,941.09	38.12	130.629		
4,500.00	4,228.56	3,512.67	3,426.28	26.49	17.38	51.31	120.67	5,750.13	4,962.79	4,923.59	39.20	126.599		
4,600.00	4,317.17	3,561.71	3,473.68	27.37	17.66	51.63	109.35	5,755.67	4,947.47	4,907.25	40.22	123.022		
4,700.00	4,405.78	3,681.57	3,589.75	28.25	18.33	52.39	83.02	5,769.72	4,932.99	4,891.36	41.64	118.481		
4,800.00	4,494.39	3,787.79	3,693.29	29.13	18.89	53.05	62.69	5,781.88	4,918.32	4,875.37	42.95	114.517		
4,900.00	4,583.00	3,864.82	3,768.40	30.02	19.29	53.53	48.00	5,790.62	4,904.09	4,859.99	44.11	111.188		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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		
9,000.00	7,730.00	7,748.48	7,626.38	53.33	32.60	-89.66	-185.09	5,900.79	3,863.83	3,788.24	75.60	51.110		
9,100.00	7,730.00	7,749.29	7,627.19	52.87	32.60	-89.68	-185.10	5,900.79	3,834.17	3,759.50	74.67	51.350		
9,200.00	7,730.00	7,750.11	7,628.00	52.44	32.61	-89.69	-185.11	5,900.80	3,806.90	3,733.09	73.81	51.576		
9,300.00	7,730.00	7,750.92	7,628.82	52.03	32.61	-89.70	-185.11	5,900.80	3,782.08	3,709.03	73.05	51.777		
9,400.00	7,730.00	7,751.73	7,629.63	51.65	32.61	-89.71	-185.12	5,900.80	3,759.76	3,687.37	72.38	51.943		
9,500.00	7,730.00	7,752.55	7,630.45	51.29	32.61	-89.73	-185.13	5,900.80	3,739.97	3,668.14	71.84	52.063		
9,600.00	7,730.00	7,753.37	7,631.27	50.95	32.62	-89.74	-185.14	5,900.80	3,722.77	3,651.35	71.42	52.127		
9,700.00	7,730.00	7,754.19	7,632.09	50.64	32.62	-89.75	-185.14	5,900.81	3,708.19	3,637.05	71.14	52.125		
9,800.00	7,730.00	7,755.01	7,632.91	50.35	32.62	-89.76	-185.15	5,900.81	3,696.25	3,625.24	71.01	52.051		
9,900.00	7,730.00	7,755.83	7,633.73	50.09	32.62	-89.78	-185.16	5,900.81	3,686.99	3,615.95	71.04	51.901		
10,000.00	7,730.00	7,756.65	7,634.55	49.86	32.63	-89.79	-185.17	5,900.82	3,680.43	3,609.20	71.22	51.674		
10,100.00	7,730.00	7,757.48	7,635.38	49.65	32.63	-89.80	-185.17	5,900.82	3,676.57	3,605.00	71.57	51.371		
10,191.89	7,730.00	7,758.24	7,636.14	49.49	32.63	-89.82	-185.18	5,900.82	3,675.42	3,603.40	72.03	51.029 CC		
10,200.00	7,730.00	7,758.31	7,636.21	49.48	32.63	-89.82	-185.18	5,900.82	3,675.43	3,603.36	72.07	50.998 ES		
10,300.00	7,730.00	7,759.14	7,637.04	49.35	32.63	-89.83	-185.19	5,900.82	3,677.01	3,604.29	72.72	50.564		
10,400.00	7,730.00	7,759.97	7,637.87	49.27	32.64	-89.84	-185.20	5,900.83	3,681.31	3,607.80	73.51	50.080		
10,500.00	7,730.00	7,760.80	7,638.70	49.26	32.64	-89.85	-185.20	5,900.83	3,688.31	3,613.89	74.43	49.556		
10,600.00	7,730.00	7,761.63	7,639.53	49.32	32.64	-89.87	-185.21	5,900.83	3,698.01	3,622.55	75.46	49.006		
10,700.00	7,730.00	7,762.47	7,640.37	49.51	32.64	-89.88	-185.22	5,900.83	3,710.38	3,633.78	76.59	48.442		
10,800.00	7,730.00	7,763.30	7,641.20	49.83	32.65	-89.89	-185.23	5,900.84	3,725.39	3,647.57	77.82	47.874		
10,900.00	7,730.00	7,764.14	7,642.04	50.31	32.65	-89.91	-185.23	5,900.84	3,743.01	3,663.90	79.11	47.314		
11,000.00	7,730.00	7,764.98	7,642.88	50.96	32.65	-89.92	-185.24	5,900.84	3,763.21	3,682.74	80.46	46.770		
11,100.00	7,730.00	7,765.82	7,643.72	51.75	32.65	-89.93	-185.25	5,900.85	3,785.94	3,704.08	81.86	46.249		
11,200.00	7,730.00	7,766.67	7,644.57	52.66	32.66	-89.95	-185.26	5,900.85	3,811.16	3,727.87	83.29	45.758		
11,300.00	7,730.00	7,767.51	7,645.41	53.67	32.66	-89.96	-185.27	5,900.85	3,838.82	3,754.08	84.74	45.300		
11,400.00	7,730.00	7,768.36	7,646.26	54.75	32.66	-89.97	-185.27	5,900.85	3,868.87	3,782.66	86.21	44.879		
11,500.00	7,730.00	7,769.21	7,647.10	55.89	32.67	-89.99	-185.28	5,900.86	3,901.25	3,813.58	87.67	44.498		
11,600.00	7,730.00	7,770.06	7,647.95	57.07	32.67	-90.00	-185.29	5,900.86	3,935.91	3,846.77	89.13	44.157		
11,700.00	7,730.00	7,770.91	7,648.80	58.30	32.67	-90.01	-185.30	5,900.86	3,972.78	3,882.20	90.58	43.858		
11,800.00	7,730.00	7,771.76	7,649.66	59.55	32.67	-90.03	-185.30	5,900.87	4,011.80	3,919.79	92.01	43.600		
11,900.00	7,730.00	7,772.61	7,650.51	60.84	32.68	-90.04	-185.31	5,900.87	4,052.92	3,959.50	93.42	43.383		
12,000.00	7,730.00	7,773.47	7,651.37	62.15	32.68	-90.05	-185.32	5,900.87	4,096.07	4,001.26	94.80	43.207		
12,100.00	7,730.00	7,774.33	7,652.23	63.49	32.68	-90.07	-185.33	5,900.88	4,141.18	4,045.03	96.15	43.069		
12,200.00	7,730.00	7,775.19	7,653.09	64.85	32.68	-90.08	-185.34	5,900.88	4,188.19	4,090.72	97.47	42.970		
12,300.00	7,730.00	7,776.05	7,653.95	66.22	32.69	-90.09	-185.34	5,900.88	4,237.04	4,138.29	98.75	42.907		
12,400.00	7,730.00	7,776.91	7,654.81	67.62	32.69	-90.11	-185.35	5,900.88	4,287.67	4,187.68	99.99	42.880 SF		
12,500.00	7,730.00	7,777.78	7,655.67	69.03	32.69	-90.12	-185.36	5,900.89	4,340.01	4,238.81	101.20	42.886		
12,600.00	7,730.00	7,778.64	7,656.54	70.45	32.69	-90.13	-185.37	5,900.89	4,394.01	4,291.64	102.37	42.925		
12,700.00	7,730.00	7,779.51	7,657.41	71.90	32.70	-90.15	-185.38	5,900.89	4,449.59	4,346.10	103.49	42.994		
12,800.00	7,730.00	7,780.38	7,658.28	73.35	32.70	-90.16	-185.39	5,900.90	4,506.71	4,402.13	104.58	43.093		
12,900.00	7,730.00	7,781.25	7,659.15	74.81	32.70	-90.17	-185.39	5,900.90	4,565.31	4,459.68	105.63	43.220		
13,000.00	7,730.00	7,782.12	7,660.02	76.29	32.70	-90.19	-185.40	5,900.90	4,625.32	4,518.68	106.64	43.373		
13,100.00	7,730.00	7,783.00	7,660.90	77.78	32.71	-90.20	-185.41	5,900.91	4,686.70	4,579.09	107.61	43.551		
13,200.00	7,730.00	7,783.87	7,661.77	79.28	32.71	-90.21	-185.42	5,900.91	4,749.40	4,640.85	108.55	43.754		
13,300.00	7,730.00	7,784.75	7,662.65	80.79	32.71	-90.23	-185.43	5,900.91	4,813.35	4,703.90	109.45	43.979		
13,400.00	7,730.00	7,785.63	7,663.53	82.31	32.72	-90.24	-185.43	5,900.92	4,878.52	4,768.21	110.31	44.225		
13,500.00	7,730.00	7,786.51	7,664.41	83.84	32.72	-90.26	-185.44	5,900.92	4,944.85	4,833.71	111.14	44.492		
13,600.00	7,730.00	7,787.40	7,665.29	85.37	32.72	-90.27	-185.45	5,900.93	5,012.29	4,900.36	111.93	44.779		
13,700.00	7,730.00	7,788.28	7,666.18	86.92	32.72	-90.28	-185.46	5,900.93	5,080.81	4,968.11	112.70	45.084		
13,800.00	7,730.00	7,789.17	7,667.07	88.47	32.73	-90.30	-185.47	5,900.93	5,150.36	5,036.93	113.43	45.406		
13,900.00	7,730.00	7,790.06	7,667.95	90.03	32.73	-90.31	-185.48	5,900.94	5,220.90	5,106.77	114.13	45.745		
14,000.00	7,730.00	7,790.95	7,668.84	91.59	32.73	-90.32	-185.48	5,900.94	5,292.38	5,177.58	114.80	46.100		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,791.84	7,669.74	93.16	32.73	-90.34	-185.49	5,900.94	5,364.78	5,249.33	115.45	46.469		
14,200.00	7,730.00	7,792.73	7,670.63	94.74	32.74	-90.35	-185.50	5,900.95	5,438.06	5,321.99	116.07	46.853		
14,300.00	7,730.00	7,793.63	7,671.52	96.33	32.74	-90.37	-185.51	5,900.95	5,512.17	5,395.51	116.66	47.251		
14,400.00	7,730.00	7,794.52	7,672.42	97.92	32.74	-90.38	-185.52	5,900.95	5,587.09	5,469.86	117.23	47.661		
14,500.00	7,730.00	7,795.42	7,673.32	99.51	32.75	-90.39	-185.53	5,900.96	5,662.78	5,545.01	117.77	48.083		
14,600.00	7,730.00	7,796.32	7,674.22	101.11	32.75	-90.41	-185.54	5,900.96	5,739.22	5,620.93	118.29	48.517		
14,700.00	7,730.00	7,797.23	7,675.12	102.72	32.75	-90.42	-185.54	5,900.97	5,816.37	5,697.58	118.79	48.962		
14,800.00	7,730.00	7,798.13	7,676.03	104.33	32.75	-90.44	-185.55	5,900.97	5,894.21	5,774.94	119.27	49.417		
14,900.00	7,730.00	7,799.04	7,676.93	105.94	32.76	-90.45	-185.56	5,900.97	5,972.71	5,852.98	119.73	49.883		
15,000.00	7,730.00	7,799.95	7,677.84	107.56	32.76	-90.47	-185.57	5,900.98	6,051.85	5,931.67	120.18	50.358		
15,100.00	7,730.00	7,800.86	7,678.75	109.18	32.76	-90.48	-185.58	5,900.98	6,131.59	6,010.99	120.60	50.842		
15,200.00	7,730.00	7,801.77	7,679.66	110.81	32.76	-90.49	-185.59	5,900.99	6,211.92	6,090.91	121.01	51.335		
15,300.00	7,730.00	7,802.68	7,680.58	112.44	32.77	-90.51	-185.60	5,900.99	6,292.81	6,171.41	121.40	51.836		
15,400.00	7,730.00	7,803.60	7,681.49	114.08	32.77	-90.52	-185.61	5,900.99	6,374.25	6,252.47	121.77	52.344		
15,500.00	7,730.00	7,804.51	7,682.41	115.72	32.77	-90.54	-185.61	5,901.00	6,456.20	6,334.07	122.14	52.861		
15,600.00	7,730.00	7,804.73	7,682.63	117.36	32.77	-90.54	-185.61	5,901.00	6,538.66	6,416.18	122.48	53.385		
15,700.00	7,730.00	7,805.53	7,683.43	119.00	32.78	-90.55	-185.62	5,901.00	6,621.60	6,498.79	122.82	53.915		
15,800.00	7,730.00	7,806.32	7,684.21	120.65	32.78	-90.56	-185.63	5,901.00	6,705.01	6,581.88	123.14	54.452		
15,900.00	7,730.00	7,807.10	7,685.00	122.30	32.78	-90.58	-185.64	5,901.01	6,788.87	6,665.42	123.44	54.996		
16,000.00	7,730.00	7,807.87	7,685.77	123.96	32.78	-90.59	-185.64	5,901.01	6,873.15	6,749.41	123.74	55.545		
16,100.00	7,730.00	7,808.64	7,686.54	125.61	32.79	-90.60	-185.65	5,901.01	6,957.86	6,833.83	124.03	56.100		
16,200.00	7,730.00	7,809.41	7,687.30	127.27	32.79	-90.61	-185.66	5,901.02	7,042.96	6,918.66	124.30	56.660		
16,300.00	7,730.00	7,810.16	7,688.06	128.94	32.79	-90.62	-185.66	5,901.02	7,128.45	7,003.89	124.57	57.226		
16,400.00	7,730.00	7,810.91	7,688.81	130.60	32.79	-90.64	-185.67	5,901.02	7,214.32	7,089.49	124.82	57.797		
16,500.00	7,730.00	7,811.66	7,689.55	132.27	32.79	-90.65	-185.68	5,901.02	7,300.54	7,175.47	125.07	58.373		
16,600.00	7,730.00	7,812.39	7,690.29	133.94	32.80	-90.66	-185.68	5,901.03	7,387.11	7,261.80	125.31	58.953		
16,700.00	7,730.00	7,813.13	7,691.02	135.61	32.80	-90.67	-185.69	5,901.03	7,474.02	7,348.48	125.53	59.537		
16,800.00	7,730.00	7,813.85	7,691.75	137.28	32.80	-90.68	-185.70	5,901.03	7,561.25	7,435.49	125.76	60.126		
16,900.00	7,730.00	7,814.57	7,692.47	138.96	32.80	-90.69	-185.70	5,901.04	7,648.79	7,522.82	125.97	60.719		
17,000.00	7,730.00	7,815.29	7,693.18	140.64	32.81	-90.70	-185.71	5,901.04	7,736.63	7,610.46	126.18	61.316		
17,100.00	7,730.00	7,816.00	7,693.89	142.32	32.81	-90.72	-185.72	5,901.04	7,824.77	7,698.39	126.38	61.917		
17,200.00	7,730.00	7,816.70	7,694.60	144.00	32.81	-90.73	-185.72	5,901.04	7,913.19	7,786.62	126.57	62.521		
17,300.00	7,730.00	7,817.40	7,695.29	145.69	32.81	-90.74	-185.73	5,901.05	8,001.88	7,875.12	126.76	63.128		
17,400.00	7,730.00	7,818.09	7,695.99	147.37	32.81	-90.75	-185.73	5,901.05	8,090.83	7,963.89	126.94	63.739		
17,500.00	7,730.00	7,818.78	7,696.67	149.06	32.82	-90.76	-185.74	5,901.05	8,180.04	8,052.93	127.11	64.354		
17,600.00	7,730.00	7,819.46	7,697.35	150.75	32.82	-90.77	-185.75	5,901.05	8,269.50	8,142.21	127.28	64.971		
17,700.00	7,730.00	7,820.13	7,698.03	152.44	32.82	-90.78	-185.75	5,901.06	8,359.19	8,231.75	127.44	65.591		
17,800.00	7,730.00	7,820.80	7,698.70	154.13	32.82	-90.79	-185.76	5,901.06	8,449.12	8,321.51	127.60	66.214		
17,900.00	7,730.00	7,821.47	7,699.37	155.83	32.82	-90.80	-185.76	5,901.06	8,539.27	8,411.51	127.76	66.839		
18,000.00	7,730.00	7,822.13	7,700.03	157.52	32.83	-90.81	-185.77	5,901.06	8,629.63	8,501.73	127.91	67.467		
18,100.00	7,730.00	7,822.79	7,700.68	159.22	32.83	-90.82	-185.77	5,901.07	8,720.21	8,592.16	128.05	68.098		
18,200.00	7,730.00	7,823.44	7,701.33	160.92	32.83	-90.83	-185.78	5,901.07	8,810.99	8,682.80	128.20	68.731		
18,300.00	7,730.00	7,824.08	7,701.98	162.62	32.83	-90.84	-185.78	5,901.07	8,901.97	8,773.64	128.33	69.366		
18,400.00	7,730.00	7,824.72	7,702.62	164.32	32.83	-90.85	-185.79	5,901.07	8,993.14	8,864.68	128.47	70.004		
18,426.22	7,730.00	7,824.89	7,702.79	164.76	32.84	-90.85	-185.79	5,901.07	9,017.08	8,888.58	128.50	70.171		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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		
8,900.00	7,730.00	7,771.38	7,645.75	53.82	32.14	-89.97	1,712.24	5,004.65	2,837.46	2,769.91	67.55	42.006		
9,000.00	7,730.00	7,771.16	7,645.53	53.33	32.14	-89.97	1,712.24	5,004.65	2,860.36	2,793.35	67.02	42.680		
9,100.00	7,730.00	7,770.94	7,645.30	52.87	32.14	-89.96	1,712.24	5,004.65	2,886.55	2,819.84	66.71	43.271		
9,200.00	7,730.00	7,770.71	7,645.08	52.44	32.14	-89.96	1,712.24	5,004.65	2,915.93	2,849.31	66.62	43.770		
9,300.00	7,730.00	7,770.48	7,644.85	52.03	32.14	-89.96	1,712.24	5,004.65	2,948.42	2,881.68	66.74	44.179		
9,400.00	7,730.00	7,770.25	7,644.62	51.65	32.14	-89.95	1,712.24	5,004.65	2,983.90	2,916.85	67.05	44.502		
9,500.00	7,730.00	7,770.02	7,644.39	51.29	32.14	-89.95	1,712.23	5,004.65	3,022.27	2,954.74	67.54	44.750		
9,600.00	7,730.00	7,769.79	7,644.15	50.95	32.14	-89.94	1,712.23	5,004.65	3,063.44	2,995.26	68.17	44.936		
9,700.00	7,730.00	7,769.55	7,643.92	50.64	32.13	-89.94	1,712.23	5,004.65	3,107.27	3,038.33	68.94	45.074		
9,800.00	7,730.00	7,769.31	7,643.68	50.35	32.13	-89.93	1,712.23	5,004.65	3,153.67	3,083.87	69.80	45.180		
9,900.00	7,730.00	7,769.07	7,643.44	50.09	32.13	-89.93	1,712.23	5,004.65	3,202.52	3,131.77	70.75	45.265		
10,000.00	7,730.00	7,768.83	7,643.20	49.86	32.13	-89.92	1,712.23	5,004.65	3,253.71	3,181.95	71.76	45.342		
10,100.00	7,730.00	7,768.59	7,642.96	49.65	32.13	-89.92	1,712.23	5,004.65	3,307.13	3,234.32	72.81	45.420		
10,200.00	7,730.00	7,768.34	7,642.71	49.48	32.13	-89.91	1,712.23	5,004.65	3,362.68	3,288.78	73.89	45.508		
10,300.00	7,730.00	7,768.10	7,642.46	49.35	32.13	-89.91	1,712.23	5,004.65	3,420.25	3,345.26	74.99	45.611		
10,400.00	7,730.00	7,767.85	7,642.22	49.27	32.13	-89.90	1,712.23	5,004.65	3,479.74	3,403.65	76.09	45.734		
10,500.00	7,730.00	7,767.60	7,641.96	49.26	32.13	-89.90	1,712.23	5,004.65	3,541.05	3,463.87	77.18	45.880		
10,600.00	7,730.00	7,767.34	7,641.71	49.32	32.13	-89.89	1,712.23	5,004.65	3,604.10	3,525.84	78.27	46.050		
10,700.00	7,730.00	7,767.09	7,641.46	49.51	32.13	-89.89	1,712.23	5,004.65	3,668.79	3,589.46	79.33	46.246		
10,800.00	7,730.00	7,766.83	7,641.20	49.83	32.13	-89.88	1,712.23	5,004.65	3,735.04	3,654.66	80.38	46.469		
10,900.00	7,730.00	7,766.57	7,640.94	50.31	32.13	-89.87	1,712.23	5,004.65	3,802.77	3,721.37	81.40	46.718		
11,000.00	7,730.00	7,766.31	7,640.68	50.96	32.13	-89.87	1,712.23	5,004.65	3,871.89	3,789.50	82.39	46.993		
11,100.00	7,730.00	7,766.05	7,640.41	51.75	32.12	-89.86	1,712.23	5,004.65	3,942.34	3,858.98	83.36	47.294		
11,200.00	7,730.00	7,765.78	7,640.15	52.66	32.12	-89.86	1,712.23	5,004.65	4,014.04	3,929.74	84.29	47.620		
11,300.00	7,730.00	7,765.51	7,639.88	53.67	32.12	-89.85	1,712.22	5,004.65	4,086.93	4,001.73	85.20	47.969		
11,400.00	7,730.00	7,765.24	7,639.61	54.75	32.12	-89.85	1,712.22	5,004.65	4,160.95	4,074.87	86.08	48.341		
11,500.00	7,730.00	7,764.97	7,639.34	55.89	32.12	-89.84	1,712.22	5,004.65	4,236.03	4,149.11	86.92	48.735		
11,600.00	7,730.00	7,764.70	7,639.06	57.07	32.12	-89.84	1,712.22	5,004.65	4,312.13	4,224.39	87.74	49.149		
11,700.00	7,730.00	7,764.42	7,638.79	58.30	32.12	-89.83	1,712.22	5,004.65	4,389.19	4,300.66	88.52	49.583		
11,800.00	7,730.00	7,764.14	7,638.51	59.55	32.12	-89.82	1,712.22	5,004.65	4,467.15	4,377.87	89.28	50.036		
11,900.00	7,730.00	7,763.86	7,638.22	60.84	32.12	-89.82	1,712.22	5,004.65	4,545.98	4,455.97	90.01	50.507		
12,000.00	7,730.00	7,763.57	7,637.94	62.15	32.12	-89.81	1,712.22	5,004.65	4,625.63	4,534.92	90.71	50.994		
12,100.00	7,730.00	7,763.29	7,637.65	63.49	32.12	-89.81	1,712.22	5,004.65	4,706.05	4,614.67	91.38	51.497		
12,200.00	7,730.00	7,763.00	7,637.36	64.85	32.12	-89.80	1,712.22	5,004.65	4,787.21	4,695.18	92.04	52.015		
12,300.00	7,730.00	7,762.70	7,637.07	66.22	32.11	-89.79	1,712.22	5,004.65	4,869.08	4,776.41	92.66	52.547		
12,400.00	7,730.00	7,762.41	7,636.78	67.62	32.11	-89.79	1,712.22	5,004.65	4,951.60	4,858.34	93.26	53.093		
12,500.00	7,730.00	7,762.11	7,636.48	69.03	32.11	-89.78	1,712.22	5,004.65	5,034.77	4,940.92	93.84	53.651		
12,600.00	7,730.00	7,761.81	7,636.18	70.45	32.11	-89.78	1,712.22	5,004.65	5,118.53	5,024.13	94.40	54.221		
12,700.00	7,730.00	7,761.51	7,635.88	71.90	32.11	-89.77	1,712.21	5,004.65	5,202.87	5,107.93	94.94	54.802		
12,800.00	7,730.00	7,761.21	7,635.57	73.35	32.11	-89.76	1,712.21	5,004.65	5,287.75	5,192.30	95.46	55.393		
12,900.00	7,730.00	7,760.90	7,635.27	74.81	32.11	-89.76	1,712.21	5,004.65	5,373.16	5,277.20	95.96	55.995		
13,000.00	7,730.00	7,760.59	7,634.96	76.29	32.11	-89.75	1,712.21	5,004.65	5,459.06	5,362.62	96.44	56.607		
13,100.00	7,730.00	7,760.27	7,634.64	77.78	32.11	-89.74	1,712.21	5,004.65	5,545.43	5,448.53	96.90	57.227		
13,200.00	7,730.00	7,759.96	7,634.33	79.28	32.11	-89.74	1,712.21	5,004.65	5,632.25	5,534.90	97.35	57.856		
13,300.00	7,730.00	7,759.64	7,634.01	80.79	32.11	-89.73	1,712.21	5,004.65	5,719.51	5,621.73	97.78	58.493		
13,400.00	7,730.00	7,759.32	7,633.69	82.31	32.10	-89.72	1,712.21	5,004.65	5,807.17	5,708.98	98.20	59.138		
13,500.00	7,730.00	7,758.99	7,633.36	83.84	32.10	-89.72	1,712.21	5,004.65	5,895.23	5,796.63	98.60	59.789		
13,600.00	7,730.00	7,758.66	7,633.03	85.37	32.10	-89.71	1,712.21	5,004.65	5,983.66	5,884.68	98.99	60.448		
13,700.00	7,730.00	7,758.33	7,632.70	86.92	32.10	-89.70	1,712.21	5,004.65	6,072.46	5,973.09	99.36	61.113		
13,800.00	7,730.00	7,758.00	7,632.37	88.47	32.10	-89.70	1,712.21	5,004.65	6,161.59	6,061.86	99.73	61.785		
13,900.00	7,730.00	7,757.66	7,632.03	90.03	32.10	-89.69	1,712.20	5,004.65	6,251.06	6,150.98	100.08	62.462		
14,000.00	7,730.00	7,757.32	7,631.69	91.59	32.10	-89.68	1,712.20	5,004.65	6,340.83	6,240.42	100.42	63.145		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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: 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	7,756.98	7,631.35	93.16	32.10	-89.68	1,712.20	5,004.65	6,430.92	6,330.17	100.75	63.833		
14,200.00	7,730.00	7,756.63	7,631.00	94.74	32.10	-89.67	1,712.20	5,004.65	6,521.28	6,420.22	101.06	64.526		
14,300.00	7,730.00	7,756.28	7,630.65	96.33	32.10	-89.66	1,712.20	5,004.65	6,611.93	6,510.56	101.37	65.224		
14,400.00	7,730.00	7,755.93	7,630.30	97.92	32.09	-89.65	1,712.20	5,004.65	6,702.84	6,601.17	101.67	65.926		
14,500.00	7,730.00	7,755.57	7,629.94	99.51	32.09	-89.65	1,712.20	5,004.65	6,794.01	6,692.05	101.96	66.633		
14,600.00	7,730.00	7,755.21	7,629.58	101.11	32.09	-89.64	1,712.20	5,004.65	6,885.43	6,783.18	102.24	67.344		
14,700.00	7,730.00	7,754.85	7,629.22	102.72	32.09	-89.63	1,712.20	5,004.65	6,977.08	6,874.56	102.52	68.058		
14,800.00	7,730.00	7,754.48	7,628.85	104.33	32.09	-89.62	1,712.20	5,004.65	7,068.95	6,966.17	102.78	68.777		
14,900.00	7,730.00	7,754.11	7,628.48	105.94	32.09	-89.62	1,712.19	5,004.65	7,161.04	7,058.01	103.04	69.499		
15,000.00	7,730.00	7,753.73	7,628.10	107.56	32.09	-89.61	1,712.19	5,004.65	7,253.35	7,150.06	103.29	70.224		
15,100.00	7,730.00	7,753.36	7,627.72	109.18	32.09	-89.60	1,712.19	5,004.65	7,345.85	7,242.32	103.53	70.952		
15,200.00	7,730.00	7,752.97	7,627.34	110.81	32.09	-89.59	1,712.19	5,004.65	7,438.55	7,334.78	103.77	71.684		
15,300.00	7,730.00	7,752.59	7,626.96	112.44	32.08	-89.59	1,712.19	5,004.65	7,531.43	7,427.43	104.00	72.418		
15,400.00	7,730.00	7,752.20	7,626.57	114.08	32.08	-89.58	1,712.19	5,004.65	7,624.50	7,520.28	104.22	73.156		
15,500.00	7,730.00	7,751.80	7,626.17	115.72	32.08	-89.57	1,712.19	5,004.65	7,717.74	7,613.30	104.44	73.895		
15,600.00	7,730.00	7,751.41	7,625.77	117.36	32.08	-89.56	1,712.19	5,004.65	7,811.14	7,706.49	104.65	74.638		
15,700.00	7,730.00	7,751.00	7,625.37	119.00	32.08	-89.55	1,712.19	5,004.65	7,904.71	7,799.85	104.86	75.382		
15,800.00	7,730.00	7,750.60	7,624.97	120.65	32.08	-89.54	1,712.18	5,004.65	7,998.43	7,893.37	105.06	76.129		
15,900.00	7,730.00	7,750.19	7,624.56	122.30	32.08	-89.54	1,712.18	5,004.65	8,092.30	7,987.04	105.26	76.879		
16,000.00	7,730.00	7,749.77	7,624.14	123.96	32.08	-89.53	1,712.18	5,004.65	8,186.32	8,080.87	105.45	77.630		
16,100.00	7,730.00	7,749.36	7,623.72	125.61	32.08	-89.52	1,712.18	5,004.65	8,280.48	8,174.84	105.64	78.383		
16,200.00	7,730.00	7,748.93	7,623.30	127.27	32.07	-89.51	1,712.18	5,004.65	8,374.77	8,268.95	105.82	79.138		
16,300.00	7,730.00	7,748.50	7,622.87	128.94	32.07	-89.50	1,712.18	5,004.65	8,469.20	8,363.19	106.00	79.895		
16,400.00	7,730.00	7,748.07	7,622.44	130.60	32.07	-89.49	1,712.18	5,004.65	8,563.75	8,457.57	106.18	80.654		
16,500.00	7,730.00	7,747.64	7,622.00	132.27	32.07	-89.48	1,712.18	5,004.65	8,658.42	8,552.07	106.35	81.414		
16,600.00	7,730.00	7,747.19	7,621.56	133.94	32.07	-89.47	1,712.17	5,004.65	8,753.21	8,646.70	106.52	82.176		
16,700.00	7,730.00	7,746.75	7,621.12	135.61	32.07	-89.47	1,712.17	5,004.65	8,848.12	8,741.44	106.68	82.939		
16,800.00	7,730.00	7,746.30	7,620.67	137.28	32.07	-89.46	1,712.17	5,004.65	8,943.14	8,836.29	106.84	83.703		
16,900.00	7,730.00	7,745.84	7,620.21	138.96	32.06	-89.45	1,712.17	5,004.65	9,038.26	8,931.26	107.00	84.469		
17,000.00	7,730.00	7,745.38	7,619.75	140.64	32.06	-89.44	1,712.17	5,004.65	9,133.49	9,026.34	107.15	85.236		
17,100.00	7,730.00	7,744.91	7,619.28	142.32	32.06	-89.43	1,712.17	5,004.65	9,228.82	9,121.52	107.31	86.005		
17,200.00	7,730.00	7,744.44	7,618.81	144.00	32.06	-89.42	1,712.17	5,004.65	9,324.25	9,216.80	107.45	86.774		
17,300.00	7,730.00	7,743.97	7,618.33	145.69	32.06	-89.41	1,712.16	5,004.65	9,419.77	9,312.17	107.60	87.545		
17,400.00	7,730.00	7,743.48	7,617.85	147.37	32.06	-89.40	1,712.16	5,004.65	9,515.39	9,407.64	107.74	88.316		
17,500.00	7,730.00	7,743.00	7,617.37	149.06	32.06	-89.39	1,712.16	5,004.65	9,611.09	9,503.21	107.88	89.089		
17,600.00	7,730.00	7,742.50	7,616.87	150.75	32.05	-89.38	1,712.16	5,004.65	9,706.88	9,598.86	108.02	89.862		
17,700.00	7,730.00	7,742.01	7,616.37	152.44	32.05	-89.37	1,712.16	5,004.65	9,802.76	9,694.60	108.16	90.636		
17,800.00	7,730.00	7,741.50	7,615.87	154.13	32.05	-89.36	1,712.16	5,004.65	9,898.71	9,790.42	108.29	91.411		
17,900.00	7,730.00	7,740.99	7,615.36	155.83	32.05	-89.35	1,712.15	5,004.65	9,994.75	9,886.33	108.42	92.187		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	81.94	776.17	5,477.80	5,533.14					
100.00	100.00	0.00	0.00	0.13	0.00	81.94	776.17	5,477.80	5,532.54	5,532.41	0.13	N/A		
200.00	200.00	65.70	65.70	0.49	0.11	81.93	776.49	5,478.06	5,533.06	5,532.46	0.60	9,208.562		
300.00	300.00	138.00	137.98	0.85	0.23	81.92	777.56	5,478.96	5,534.42	5,533.35	1.08	5,139.430		
400.00	400.00	138.00	137.98	1.21	0.23	81.92	777.56	5,478.96	5,536.76	5,535.32	1.44	3,850.030		
500.00	500.00	198.44	198.37	1.57	0.45	81.91	779.28	5,480.52	5,539.96	5,537.94	2.01	2,750.395		
600.00	600.00	229.00	228.89	1.93	0.56	81.90	780.53	5,481.71	5,544.49	5,542.01	2.48	2,232.329		
700.00	700.00	264.49	264.29	2.29	0.69	81.88	782.17	5,483.50	5,550.22	5,547.25	2.97	1,867.569		
800.00	800.00	320.00	319.61	2.64	0.90	81.86	784.92	5,487.28	5,557.36	5,553.83	3.53	1,573.854		
900.00	900.00	320.00	319.61	3.00	0.90	81.86	784.92	5,487.28	5,565.41	5,561.52	3.89	1,431.550		
1,000.00	1,000.00	368.18	367.54	3.36	1.09	81.84	787.55	5,491.38	5,574.71	5,570.29	4.42	1,261.081		
1,100.00	1,100.00	411.00	410.08	3.72	1.26	81.82	790.14	5,495.52	5,585.10	5,580.17	4.93	1,132.700		
1,200.00	1,200.00	445.76	444.56	4.08	1.40	81.80	792.50	5,499.22	5,596.57	5,591.16	5.41	1,033.777		
1,300.00	1,299.98	503.00	501.22	4.43	1.63	34.52	797.12	5,505.96	5,607.79	5,601.81	5.98	938.522		
1,400.00	1,399.84	503.00	501.22	4.79	1.63	34.42	797.12	5,505.96	5,617.15	5,610.83	6.31	889.603		
1,500.00	1,499.45	561.38	558.80	5.15	1.89	34.31	802.91	5,513.61	5,624.63	5,617.74	6.88	816.948		
1,600.00	1,598.70	594.00	590.87	5.51	2.03	34.24	806.69	5,518.22	5,630.41	5,623.05	7.36	765.512		
1,700.00	1,697.47	651.63	647.35	5.89	2.30	34.18	814.31	5,526.77	5,634.24	5,626.30	7.94	709.623		
1,800.00	1,795.62	685.00	679.95	6.28	2.46	34.15	819.28	5,531.90	5,636.14	5,627.71	8.43	668.742		
1,900.00	1,893.06	743.42	736.82	6.69	2.75	34.15	828.74	5,541.31	5,636.04	5,627.00	9.04	623.351		
2,000.00	1,989.64	795.88	787.69	7.13	3.02	34.17	837.92	5,550.27	5,634.07	5,624.42	9.64	584.264		
2,100.00	2,085.27	878.22	867.25	7.61	3.46	34.22	853.64	5,564.51	5,629.75	5,619.35	10.40	541.322		
2,200.00	2,179.82	986.83	971.81	8.12	4.05	34.30	876.59	5,582.86	5,622.50	5,611.18	11.32	496.834		
2,300.00	2,273.17	1,057.98	1,040.06	8.67	4.45	34.42	892.68	5,594.88	5,612.65	5,600.57	12.08	464.534		
2,400.00	2,365.21	1,276.45	1,249.50	9.27	5.70	34.61	943.76	5,630.21	5,599.64	5,586.02	13.62	411.086		
2,500.00	2,455.84	1,358.75	1,328.70	9.92	6.17	34.85	962.36	5,642.69	5,582.37	5,567.88	14.50	385.090		
2,580.62	2,527.80	1,421.91	1,389.39	10.49	6.53	35.07	976.92	5,652.40	5,566.64	5,551.43	15.21	366.068		
2,600.00	2,544.97	1,430.00	1,397.15	10.63	6.57	35.07	978.81	5,653.65	5,562.68	5,547.33	15.34	362.525		
2,700.00	2,633.58	1,502.62	1,466.74	11.37	6.99	35.12	996.15	5,665.05	5,542.53	5,526.31	16.22	341.641		
2,800.00	2,722.19	1,564.03	1,525.43	12.13	7.36	35.15	1,011.27	5,674.99	5,522.98	5,505.91	17.06	323.674		
2,900.00	2,810.80	1,626.66	1,585.16	12.91	7.74	35.18	1,026.83	5,685.54	5,504.11	5,486.19	17.93	307.060		
3,000.00	2,899.41	1,746.11	1,699.29	13.71	8.45	35.26	1,055.52	5,706.09	5,485.48	5,466.39	19.09	287.354		
3,100.00	2,988.02	1,993.38	1,938.04	14.52	9.84	35.52	1,105.18	5,746.75	5,465.78	5,444.93	20.84	262.226		
3,200.00	3,076.63	2,077.30	2,019.81	15.34	10.27	35.64	1,118.79	5,759.86	5,444.31	5,422.52	21.79	249.843		
3,300.00	3,165.24	2,144.55	2,085.42	16.16	10.61	35.75	1,128.72	5,770.75	5,423.24	5,400.57	22.67	239.249		
3,400.00	3,253.85	2,179.00	2,119.02	17.00	10.79	35.81	1,133.71	5,776.50	5,402.89	5,379.48	23.41	230.787		
3,500.00	3,342.46	2,230.69	2,169.33	17.84	11.06	35.90	1,141.35	5,785.61	5,383.48	5,359.24	24.24	222.101		
3,600.00	3,431.07	2,272.00	2,209.37	18.69	11.28	35.96	1,147.75	5,793.47	5,365.30	5,340.27	25.03	214.378		
3,700.00	3,519.68	2,310.34	2,246.44	19.55	11.50	36.03	1,153.86	5,801.14	5,348.20	5,322.39	25.81	207.194		
3,800.00	3,608.29	2,366.00	2,300.11	20.40	11.81	36.11	1,162.92	5,812.79	5,332.10	5,305.42	26.68	199.836		
3,900.00	3,696.90	2,441.94	2,373.17	21.26	12.24	36.23	1,175.71	5,829.06	5,316.67	5,289.01	27.66	192.229		
4,000.00	3,785.51	2,516.00	2,444.35	22.13	12.67	36.34	1,188.50	5,845.04	5,301.51	5,272.88	28.63	185.164		
4,100.00	3,874.12	4,100.00	2,610.85	23.00	21.74	36.60	1,218.10	5,882.29	5,286.57	5,250.04	36.54	144.693		
4,200.00	3,962.73	2,824.27	2,741.21	23.87	14.44	36.80	1,241.16	5,909.22	5,269.75	5,238.40	31.35	168.092		
4,300.00	4,051.34	2,942.52	2,855.21	24.74	15.12	36.97	1,262.36	5,932.36	5,252.80	5,220.25	32.55	161.368		
4,400.00	4,139.95	2,997.87	2,908.43	25.62	15.44	37.04	1,273.10	5,943.14	5,235.96	5,202.49	33.47	156.434		
4,500.00	4,228.56	3,133.00	3,038.08	26.49	16.24	37.20	1,300.70	5,969.41	5,219.27	5,184.49	34.78	150.060		
4,600.00	4,317.17	3,196.08	3,098.67	27.37	16.61	37.27	1,313.25	5,981.67	5,202.50	5,166.75	35.75	145.531		
4,700.00	4,405.78	3,306.43	3,204.76	28.25	17.26	37.42	1,334.28	6,003.54	5,186.05	5,149.10	36.94	140.385		
4,800.00	4,494.39	3,368.11	3,264.06	29.13	17.62	37.50	1,345.90	6,015.91	5,169.79	5,131.88	37.91	136.380		
4,900.00	4,583.00	3,456.87	3,349.22	30.02	18.14	37.62	1,363.12	6,034.09	5,154.07	5,115.06	39.01	132.127		
5,000.00	4,671.61	3,562.18	3,450.17	30.90	18.77	37.75	1,384.13	6,055.49	5,138.29	5,098.09	40.20	127.827		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	3,656.74	3,540.75	31.79	19.34	37.87	1,403.35	6,074.62	5,122.49	5,081.15	41.34	123.913		
5,200.00	4,848.83	3,813.71	3,691.68	32.67	20.26	38.07	1,433.84	6,105.15	5,105.59	5,062.82	42.78	119.358		
5,300.00	4,937.44	3,871.18	3,746.94	33.56	20.59	38.15	1,444.82	6,116.48	5,089.18	5,045.43	43.74	116.341		
5,400.00	5,026.05	3,957.41	3,829.72	34.45	21.10	38.27	1,461.59	6,133.86	5,073.26	5,028.41	44.85	113.108		
5,500.00	5,114.66	4,052.52	3,921.07	35.34	21.67	38.40	1,479.63	6,153.21	5,057.52	5,011.51	46.01	109.930		
5,600.00	5,203.27	4,188.90	4,052.49	36.23	22.45	38.61	1,504.30	6,180.03	5,040.88	4,993.52	47.35	106.458		
5,700.00	5,291.88	5,700.00	4,162.20	37.12	31.22	38.77	1,525.64	6,202.44	5,024.51	4,969.18	55.33	90.806		
5,800.00	5,380.50	4,428.00	4,282.64	38.01	23.84	38.94	1,550.17	6,225.78	5,007.16	4,957.26	49.90	100.344		
5,900.00	5,469.11	4,538.52	4,389.01	38.90	24.48	39.09	1,572.04	6,246.29	4,989.83	4,938.69	51.14	97.569		
6,000.00	5,557.72	4,685.22	4,530.00	39.79	25.33	39.27	1,602.49	6,273.04	4,972.49	4,919.94	52.55	94.620		
6,100.00	5,646.33	4,927.71	4,764.62	40.68	26.67	39.60	1,650.47	6,311.03	4,951.83	4,897.48	54.35	91.117		
6,200.00	5,734.94	5,234.17	5,063.58	41.58	28.21	40.10	1,704.58	6,350.61	4,929.35	4,873.08	56.28	87.590		
6,300.00	5,823.55	5,991.82	5,817.35	42.47	30.69	42.49	1,746.31	6,392.44	4,903.28	4,844.60	58.68	83.554		
6,400.00	5,912.16	6,098.87	5,924.38	43.36	30.93	42.91	1,746.77	6,390.51	4,865.67	4,805.94	59.73	81.463		
6,500.00	6,000.77	6,189.83	6,015.31	44.26	31.13	43.27	1,747.19	6,388.66	4,828.02	4,767.25	60.77	79.450		
6,600.00	6,089.38	6,273.35	6,098.82	45.15	31.32	43.61	1,747.48	6,386.98	4,790.57	4,728.75	61.81	77.503		
6,700.00	6,177.99	6,370.19	6,195.64	46.05	31.53	44.01	1,747.44	6,385.06	4,753.30	4,690.43	62.87	75.602		
6,800.00	6,266.60	6,451.31	6,276.74	46.94	31.71	44.36	1,746.82	6,383.38	4,716.12	4,652.19	63.93	73.769		
6,900.00	6,355.21	6,519.26	6,344.68	47.84	31.86	44.65	1,746.21	6,382.18	4,679.40	4,614.41	64.99	72.001		
7,000.00	6,443.82	6,583.01	6,408.42	48.74	32.00	44.93	1,746.10	6,381.37	4,643.34	4,577.28	66.06	70.294		
7,100.00	6,532.43	6,675.73	6,501.13	49.63	32.23	45.33	1,746.42	6,380.37	4,607.65	4,540.50	67.16	68.609		
7,200.00	6,621.04	6,748.18	6,573.59	50.53	32.40	45.64	1,746.77	6,379.68	4,572.29	4,504.03	68.26	66.988		
7,300.00	6,709.65	6,823.06	6,648.46	51.42	32.59	45.97	1,747.09	6,379.21	4,537.41	4,468.05	69.36	65.415		
7,400.00	6,798.26	6,899.61	6,725.01	52.32	32.78	46.32	1,747.15	6,378.95	4,503.00	4,432.52	70.48	63.889		
7,500.00	6,886.87	6,978.79	6,804.19	53.22	32.97	46.68	1,746.93	6,378.87	4,469.02	4,397.41	71.61	62.407		
7,600.00	6,975.48	7,062.00	6,887.40	54.12	33.17	47.07	1,746.43	6,378.91	4,435.41	4,362.66	72.75	60.965		
7,656.30	7,025.36	7,109.58	6,934.98	54.62	33.28	47.30	1,746.00	6,378.97	4,416.63	4,343.23	73.40	60.171		
7,700.00	7,064.54	7,146.93	6,972.32	55.00	33.37	38.76	1,745.58	6,379.03	4,401.93	4,328.05	73.88	59.585		
7,750.00	7,110.29	7,188.72	7,014.11	55.40	33.47	27.04	1,745.06	6,379.13	4,384.75	4,310.41	74.34	58.980		
7,800.00	7,156.67	7,231.39	7,056.77	55.75	33.57	13.37	1,744.50	6,379.26	4,367.31	4,292.59	74.72	58.447		
7,850.00	7,203.34	7,284.29	7,109.67	56.05	33.70	-1.43	1,743.83	6,379.42	4,349.68	4,274.64	75.02	57.979		
7,900.00	7,249.95	7,337.75	7,163.12	56.30	33.83	-16.07	1,743.24	6,379.49	4,331.87	4,256.64	75.23	57.583		
7,950.00	7,296.14	7,383.36	7,208.74	56.50	33.94	-29.32	1,742.70	6,379.53	4,314.13	4,238.79	75.34	57.263		
8,000.00	7,341.56	7,429.42	7,254.80	56.64	34.05	-40.64	1,742.09	6,379.56	4,296.61	4,221.25	75.36	57.014		
8,050.00	7,385.86	7,468.82	7,294.19	56.74	34.15	-50.02	1,741.48	6,379.61	4,279.51	4,204.22	75.29	56.837		
8,100.00	7,428.71	7,507.95	7,333.31	56.79	34.24	-57.75	1,740.79	6,379.70	4,263.03	4,187.88	75.15	56.729		
8,150.00	7,469.77	7,544.19	7,369.54	56.80	34.33	-64.15	1,740.11	6,379.82	4,247.32	4,172.40	74.92	56.690 SF		
8,200.00	7,508.75	7,578.37	7,403.72	56.77	34.41	-69.49	1,739.47	6,379.97	4,232.60	4,157.97	74.63	56.718		
8,250.00	7,545.33	7,610.71	7,436.05	56.70	34.49	-73.97	1,738.88	6,380.16	4,219.03	4,144.76	74.26	56.812		
8,300.00	7,579.25	7,642.37	7,467.70	56.59	34.57	-77.75	1,738.31	6,380.37	4,206.77	4,132.92	73.84	56.968		
8,350.00	7,610.24	7,671.39	7,496.72	56.45	34.64	-80.92	1,737.80	6,380.59	4,195.98	4,122.61	73.38	57.185		
8,400.00	7,638.06	7,697.55	7,522.88	56.28	34.71	-83.54	1,737.34	6,380.79	4,186.83	4,113.97	72.86	57.460		
8,450.00	7,662.52	7,716.87	7,542.19	56.09	34.76	-85.63	1,737.01	6,380.96	4,179.46	4,107.14	72.32	57.792		
8,500.00	7,683.41	7,732.70	7,558.02	55.88	34.80	-87.25	1,736.74	6,381.13	4,174.00	4,102.25	71.75	58.173		
8,550.00	7,700.59	7,745.83	7,571.15	55.64	34.83	-88.44	1,736.53	6,381.28	4,170.55	4,099.38	71.17	58.599		
8,600.00	7,713.91	7,756.15	7,581.46	55.39	34.86	-89.22	1,736.36	6,381.41	4,169.18	4,098.59	70.59	59.065 ES		
8,607.63	7,715.60	7,757.47	7,582.79	55.35	34.86	-89.30	1,736.34	6,381.43	4,169.15	4,098.65	70.50	59.139 CC		
8,650.00	7,723.29	7,763.59	7,588.90	55.14	34.88	-89.59	1,736.24	6,381.51	4,169.92	4,099.91	70.01	59.565		
8,700.00	7,728.64	7,768.08	7,593.39	54.87	34.89	-89.58	1,736.17	6,381.58	4,172.78	4,103.34	69.44	60.092		
8,740.83	7,730.00	7,769.54	7,594.85	54.65	34.89	-89.28	1,736.14	6,381.60	4,176.70	4,107.71	68.99	60.539		
8,800.00	7,730.00	7,770.23	7,595.54	54.33	34.89	-89.29	1,736.13	6,381.61	4,183.80	4,115.42	68.38	61.186		
8,900.00	7,730.00	7,771.38	7,596.69	53.82	34.90	-89.31	1,736.11	6,381.62	4,197.66	4,130.19	67.47	62.216		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
9,000.00	7,730.00	7,772.53	7,597.84	53.33	34.90	-89.32	1,736.10	6,381.64	4,213.85	4,147.13	66.72	63.155		
9,100.00	7,730.00	7,773.67	7,598.98	52.87	34.90	-89.34	1,736.08	6,381.66	4,232.35	4,166.20	66.14	63.986		
9,200.00	7,730.00	7,774.81	7,600.12	52.44	34.91	-89.35	1,736.06	6,381.67	4,253.11	4,187.37	65.74	64.696		
9,300.00	7,730.00	7,775.95	7,601.26	52.03	34.91	-89.37	1,736.04	6,381.69	4,276.11	4,210.61	65.51	65.276		
9,400.00	7,730.00	7,777.09	7,602.39	51.65	34.91	-89.38	1,736.02	6,381.71	4,301.32	4,235.87	65.45	65.723		
9,500.00	7,730.00	7,778.22	7,603.53	51.29	34.91	-89.40	1,736.01	6,381.72	4,328.69	4,263.14	65.55	66.041		
9,600.00	7,730.00	7,779.35	7,604.65	50.95	34.92	-89.42	1,735.99	6,381.74	4,358.18	4,292.38	65.80	66.236		
9,700.00	7,730.00	7,780.47	7,605.78	50.64	34.92	-89.43	1,735.97	6,381.76	4,389.75	4,323.56	66.19	66.318		
9,800.00	7,730.00	7,781.59	7,606.90	50.35	34.92	-89.45	1,735.95	6,381.78	4,423.36	4,356.64	66.71	66.303		
9,900.00	7,730.00	7,782.71	7,608.02	50.09	34.93	-89.46	1,735.94	6,381.79	4,458.95	4,391.60	67.35	66.203		
10,000.00	7,730.00	7,783.83	7,609.13	49.86	34.93	-89.48	1,735.92	6,381.81	4,496.49	4,428.40	68.09	66.036		
10,100.00	7,730.00	7,784.94	7,610.24	49.65	34.93	-89.49	1,735.90	6,381.83	4,535.92	4,467.00	68.92	65.817		
10,200.00	7,730.00	7,786.05	7,611.35	49.48	34.93	-89.51	1,735.88	6,381.84	4,577.20	4,507.38	69.82	65.559		
10,300.00	7,730.00	7,787.15	7,612.46	49.35	34.94	-89.52	1,735.87	6,381.86	4,620.27	4,549.49	70.78	65.276		
10,400.00	7,730.00	7,788.26	7,613.56	49.27	34.94	-89.54	1,735.85	6,381.88	4,665.09	4,593.29	71.79	64.978		
10,500.00	7,730.00	7,796.00	7,621.30	49.26	34.96	-89.65	1,735.73	6,382.01	4,711.61	4,638.77	72.84	64.682		
10,600.00	7,730.00	7,796.00	7,621.30	49.32	34.96	-89.65	1,735.73	6,382.01	4,759.77	4,685.84	73.93	64.382		
10,700.00	7,730.00	7,796.00	7,621.30	49.51	34.96	-89.65	1,735.73	6,382.01	4,809.53	4,734.48	75.04	64.091		
10,800.00	7,730.00	7,796.00	7,621.30	49.83	34.96	-89.65	1,735.73	6,382.01	4,860.83	4,784.66	76.17	63.816		
10,900.00	7,730.00	7,796.00	7,621.30	50.31	34.96	-89.65	1,735.73	6,382.01	4,913.63	4,836.33	77.31	63.559		
11,000.00	7,730.00	7,796.00	7,621.30	50.96	34.96	-89.65	1,735.73	6,382.01	4,967.89	4,889.44	78.45	63.325		
11,100.00	7,730.00	7,796.00	7,621.30	51.75	34.96	-89.65	1,735.73	6,382.01	5,023.55	4,943.96	79.59	63.114		
11,200.00	7,730.00	7,797.81	7,623.11	52.66	34.96	-89.67	1,735.70	6,382.04	5,080.57	4,999.84	80.73	62.930		
11,300.00	7,730.00	7,799.86	7,625.16	53.67	34.97	-89.70	1,735.67	6,382.07	5,138.90	5,057.04	81.86	62.773		
11,400.00	7,730.00	7,801.94	7,627.24	54.75	34.98	-89.73	1,735.64	6,382.10	5,198.50	5,115.52	82.99	62.643		
11,500.00	7,730.00	7,804.06	7,629.36	55.89	34.98	-89.76	1,735.60	6,382.14	5,259.33	5,175.23	84.10	62.540		
11,600.00	7,730.00	7,806.22	7,631.52	57.07	34.99	-89.79	1,735.57	6,382.18	5,321.34	5,236.15	85.19	62.463		
11,700.00	7,730.00	7,808.41	7,633.71	58.30	34.99	-89.82	1,735.53	6,382.21	5,384.49	5,298.22	86.27	62.414		
11,800.00	7,730.00	7,810.64	7,635.94	59.55	35.00	-89.85	1,735.50	6,382.25	5,448.74	5,361.41	87.33	62.390		
11,900.00	7,730.00	7,812.91	7,638.21	60.84	35.00	-89.88	1,735.46	6,382.29	5,514.06	5,425.69	88.38	62.392		
12,000.00	7,730.00	7,815.22	7,640.52	62.15	35.01	-89.91	1,735.42	6,382.32	5,580.41	5,491.01	89.40	62.419		
12,100.00	7,730.00	7,817.57	7,642.86	63.49	35.02	-89.94	1,735.38	6,382.36	5,647.75	5,557.34	90.41	62.469		
12,200.00	7,730.00	7,819.96	7,645.26	64.85	35.02	-89.98	1,735.34	6,382.40	5,716.04	5,624.65	91.39	62.543		
12,300.00	7,730.00	7,822.39	7,647.69	66.22	35.03	-90.01	1,735.30	6,382.44	5,785.25	5,692.89	92.36	62.639		
12,400.00	7,730.00	7,824.87	7,650.17	67.62	35.03	-90.04	1,735.26	6,382.48	5,855.36	5,762.05	93.30	62.757		
12,500.00	7,730.00	7,827.40	7,652.69	69.03	35.04	-90.08	1,735.21	6,382.52	5,926.32	5,832.09	94.22	62.895		
12,600.00	7,730.00	7,829.97	7,655.26	70.45	35.05	-90.11	1,735.17	6,382.56	5,998.10	5,902.98	95.13	63.053		
12,700.00	7,730.00	7,832.59	7,657.88	71.90	35.05	-90.15	1,735.12	6,382.61	6,070.69	5,974.68	96.01	63.231		
12,800.00	7,730.00	7,835.25	7,660.55	73.35	35.06	-90.19	1,735.08	6,382.65	6,144.04	6,047.17	96.87	63.426		
12,900.00	7,730.00	7,837.97	7,663.27	74.81	35.07	-90.22	1,735.03	6,382.69	6,218.14	6,120.43	97.71	63.638		
13,000.00	7,730.00	7,840.75	7,666.04	76.29	35.08	-90.26	1,734.98	6,382.74	6,292.95	6,194.42	98.53	63.868		
13,100.00	7,730.00	7,843.57	7,668.86	77.78	35.08	-90.30	1,734.93	6,382.78	6,368.45	6,269.12	99.33	64.113		
13,200.00	7,730.00	7,846.45	7,671.74	79.28	35.09	-90.34	1,734.87	6,382.83	6,444.62	6,344.51	100.11	64.373		
13,300.00	7,730.00	7,849.39	7,674.68	80.79	35.10	-90.38	1,734.82	6,382.88	6,521.44	6,420.56	100.88	64.648		
13,400.00	7,730.00	7,852.39	7,677.67	82.31	35.11	-90.42	1,734.76	6,382.92	6,598.87	6,497.25	101.62	64.937		
13,500.00	7,730.00	7,855.44	7,680.73	83.84	35.11	-90.47	1,734.70	6,382.97	6,676.90	6,574.56	102.35	65.239		
13,600.00	7,730.00	7,858.56	7,683.85	85.37	35.12	-90.51	1,734.64	6,383.02	6,755.51	6,652.46	103.05	65.554		
13,700.00	7,730.00	7,861.75	7,687.03	86.92	35.13	-90.55	1,734.58	6,383.07	6,834.68	6,730.94	103.74	65.881		
13,800.00	7,730.00	7,865.00	7,690.28	88.47	35.14	-90.60	1,734.52	6,383.12	6,914.39	6,809.97	104.42	66.220		
13,900.00	7,730.00	7,868.31	7,693.60	90.03	35.15	-90.64	1,734.45	6,383.17	6,994.61	6,889.54	105.07	66.569		
14,000.00	7,730.00	7,871.70	7,696.98	91.59	35.15	-90.69	1,734.38	6,383.23	7,075.34	6,969.63	105.71	66.930		
14,100.00	7,730.00	7,875.16	7,700.45	93.16	35.16	-90.74	1,734.31	6,383.28	7,156.56	7,050.22	106.34	67.300		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,878.70	7,703.98	94.74	35.17	-90.79	1,734.24	6,383.34	7,238.24	7,131.30	106.95	67.680		
14,300.00	7,730.00	7,882.32	7,707.59	96.33	35.18	-90.84	1,734.17	6,383.39	7,320.38	7,212.84	107.54	68.070		
14,400.00	7,730.00	7,886.01	7,711.29	97.92	35.19	-90.89	1,734.09	6,383.45	7,402.96	7,294.84	108.12	68.468		
14,500.00	7,730.00	7,889.79	7,715.06	99.51	35.20	-90.94	1,734.01	6,383.51	7,485.96	7,377.27	108.69	68.875		
14,600.00	7,730.00	7,893.65	7,718.93	101.11	35.21	-90.99	1,733.93	6,383.57	7,569.37	7,460.13	109.24	69.290		
14,700.00	7,730.00	7,897.60	7,722.88	102.72	35.22	-91.05	1,733.84	6,383.63	7,653.18	7,543.40	109.78	69.713		
14,800.00	7,730.00	7,901.65	7,726.92	104.33	35.23	-91.10	1,733.75	6,383.69	7,737.37	7,627.06	110.31	70.143		
14,900.00	7,730.00	7,905.79	7,731.06	105.94	35.24	-91.16	1,733.66	6,383.75	7,821.93	7,711.11	110.82	70.581		
15,000.00	7,730.00	15,000.00	7,703.14	107.56	54.25	-90.77	1,734.23	6,383.32	7,906.86	7,773.81	133.05	59.426		
15,100.00	7,730.00	7,899.21	7,724.48	109.18	35.23	-91.07	1,733.81	6,383.65	7,992.14	7,880.33	111.81	71.482		
15,200.00	7,730.00	7,900.82	7,726.09	110.81	35.23	-91.09	1,733.78	6,383.68	8,077.75	7,965.46	112.28	71.941		
15,300.00	7,730.00	7,902.42	7,727.69	112.44	35.23	-91.11	1,733.74	6,383.70	8,163.68	8,050.93	112.75	72.406		
15,400.00	7,730.00	7,904.02	7,729.29	114.08	35.24	-91.14	1,733.71	6,383.73	8,249.94	8,136.73	113.20	72.877		
15,500.00	7,730.00	7,905.61	7,730.88	115.72	35.24	-91.16	1,733.68	6,383.75	8,336.50	8,222.85	113.65	73.353		
15,600.00	7,730.00	7,907.18	7,732.45	117.36	35.25	-91.18	1,733.65	6,383.78	8,423.35	8,309.27	114.08	73.835		
15,700.00	7,730.00	7,908.76	7,734.02	119.00	35.25	-91.20	1,733.61	6,383.80	8,510.50	8,395.99	114.51	74.322		
15,800.00	7,730.00	7,910.32	7,735.59	120.65	35.25	-91.22	1,733.58	6,383.82	8,597.92	8,483.00	114.92	74.815		
15,900.00	7,730.00	7,911.87	7,737.14	122.30	35.26	-91.24	1,733.55	6,383.85	8,685.62	8,570.29	115.33	75.312		
16,000.00	7,730.00	7,913.42	7,738.69	123.96	35.26	-91.27	1,733.52	6,383.87	8,773.58	8,657.85	115.73	75.813		
16,100.00	7,730.00	7,914.96	7,740.22	125.61	35.27	-91.29	1,733.49	6,383.90	8,861.79	8,745.68	116.11	76.320		
16,200.00	7,730.00	7,916.49	7,741.75	127.27	35.27	-91.31	1,733.46	6,383.92	8,950.26	8,833.76	116.49	76.830		
16,300.00	7,730.00	7,918.01	7,743.27	128.94	35.27	-91.33	1,733.43	6,383.94	9,038.96	8,922.09	116.87	77.345		
16,400.00	7,730.00	7,919.52	7,744.79	130.60	35.28	-91.35	1,733.40	6,383.97	9,127.89	9,010.66	117.23	77.863		
16,500.00	7,730.00	7,921.03	7,746.29	132.27	35.28	-91.37	1,733.36	6,383.99	9,217.05	9,099.47	117.59	78.386		
16,600.00	7,730.00	7,922.53	7,747.79	133.94	35.29	-91.39	1,733.33	6,384.02	9,306.43	9,188.50	117.93	78.912		
16,700.00	7,730.00	7,924.02	7,749.28	135.61	35.29	-91.41	1,733.30	6,384.04	9,396.03	9,277.75	118.28	79.442		
16,800.00	7,730.00	7,925.50	7,750.77	137.28	35.29	-91.43	1,733.28	6,384.06	9,485.83	9,367.22	118.61	79.975		
16,900.00	7,730.00	7,926.98	7,752.24	138.96	35.30	-91.45	1,733.25	6,384.09	9,575.84	9,456.90	118.94	80.512		
17,000.00	7,730.00	7,928.45	7,753.71	140.64	35.30	-91.47	1,733.22	6,384.11	9,666.04	9,546.78	119.26	81.052		
17,100.00	7,730.00	7,929.91	7,755.17	142.32	35.31	-91.49	1,733.19	6,384.13	9,756.43	9,636.86	119.57	81.595		
17,200.00	7,730.00	7,931.36	7,756.62	144.00	35.31	-91.51	1,733.16	6,384.16	9,847.01	9,727.13	119.88	82.140		
17,300.00	7,730.00	7,932.81	7,758.07	145.69	35.31	-91.53	1,733.13	6,384.18	9,937.76	9,817.58	120.18	82.689		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	82.02	765.24	5,461.00	5,514.97					
100.00	100.00	36.74	36.74	0.13	0.05	82.02	765.28	5,460.94	5,514.33	5,514.15	0.18	N/A		
200.00	200.00	138.00	138.00	0.49	0.39	82.02	765.43	5,460.36	5,513.79	5,512.91	0.88	6,267.189		
269.05	269.05	187.05	187.05	0.74	0.56	82.02	765.18	5,460.23	5,513.58	5,512.29	1.30	4,249.348		
300.00	300.00	204.60	204.60	0.85	0.62	82.03	764.95	5,460.28	5,513.62	5,512.15	1.47	3,752.349		
400.00	400.00	229.00	228.99	1.21	0.70	82.03	764.51	5,460.45	5,514.42	5,512.51	1.91	2,881.452		
500.00	500.00	274.03	274.00	1.57	0.86	82.04	763.38	5,461.33	5,516.30	5,513.87	2.43	2,270.219		
600.00	600.00	320.00	319.90	1.93	1.02	82.06	761.85	5,463.23	5,519.65	5,516.71	2.95	1,873.121		
700.00	700.00	320.00	319.90	2.29	1.02	82.06	761.85	5,463.23	5,524.15	5,520.84	3.31	1,670.893		
800.00	800.00	367.68	367.45	2.64	1.20	82.09	759.77	5,466.17	5,529.85	5,526.01	3.83	1,442.125		
900.00	900.00	411.00	410.56	3.00	1.36	82.12	757.39	5,469.60	5,536.80	5,532.45	4.35	1,274.158		
1,000.00	1,000.00	439.10	438.48	3.36	1.46	82.14	755.59	5,472.18	5,544.87	5,540.07	4.81	1,153.843		
1,100.00	1,100.00	477.54	476.62	3.72	1.61	82.17	752.82	5,476.12	5,554.07	5,548.77	5.30	1,047.392		
1,200.00	1,200.00	502.00	500.85	4.08	1.70	82.20	750.88	5,478.87	5,564.41	5,558.66	5.75	968.320		
1,300.00	1,299.98	544.98	543.35	4.43	1.88	35.01	747.36	5,484.21	5,574.45	5,568.19	6.26	890.589		
1,400.00	1,399.84	593.00	590.73	4.79	2.08	34.97	743.52	5,491.02	5,582.97	5,576.19	6.79	822.469		
1,500.00	1,499.45	593.00	590.73	5.15	2.08	34.90	743.52	5,491.02	5,589.78	5,582.65	7.13	784.286		
1,600.00	1,598.70	641.98	638.92	5.51	2.29	34.92	739.59	5,498.82	5,594.87	5,587.20	7.67	729.684		
1,700.00	1,697.47	684.00	680.14	5.89	2.48	34.96	736.13	5,506.20	5,598.40	5,590.21	8.18	684.130		
1,800.00	1,795.62	714.56	710.07	6.28	2.62	35.01	733.74	5,511.89	5,600.18	5,591.53	8.66	646.805		
1,900.00	1,893.06	776.00	770.21	6.69	2.91	35.15	729.87	5,523.87	5,600.27	5,591.00	9.27	604.154		
2,000.00	1,989.64	803.47	797.07	7.13	3.04	35.24	728.39	5,529.46	5,598.38	5,588.63	9.75	574.148		
2,100.00	2,085.27	870.00	861.98	7.61	3.36	35.45	724.58	5,543.52	5,594.68	5,584.27	10.41	537.557		
2,200.00	2,179.82	924.53	915.12	8.12	3.63	35.68	721.48	5,555.38	5,588.84	5,577.81	11.04	506.356		
2,300.00	2,273.17	1,017.77	1,005.97	8.67	4.10	36.05	716.83	5,575.77	5,580.61	5,568.77	11.84	471.323		
2,400.00	2,365.21	1,118.86	1,104.56	9.27	4.61	36.49	712.40	5,597.72	5,569.61	5,556.90	12.71	438.360		
2,500.00	2,455.84	1,211.68	1,195.08	9.92	5.08	36.97	708.34	5,617.82	5,555.95	5,542.38	13.56	409.664		
2,580.62	2,527.80	1,272.21	1,254.05	10.49	5.40	37.34	705.01	5,631.04	5,543.14	5,528.93	14.22	389.923		
2,600.00	2,544.97	1,284.21	1,265.74	10.63	5.46	37.39	704.27	5,633.69	5,539.92	5,525.55	14.37	385.633		
2,700.00	2,633.58	1,348.37	1,328.10	11.37	5.80	37.64	699.88	5,648.12	5,523.69	5,508.53	15.16	364.438		
2,800.00	2,722.19	1,431.89	1,409.19	12.13	6.25	37.97	693.77	5,667.16	5,507.98	5,491.93	16.06	343.060		
2,900.00	2,810.80	1,491.81	1,467.32	12.91	6.58	38.21	689.46	5,681.03	5,492.86	5,475.99	16.86	325.696		
3,000.00	2,899.41	1,551.62	1,525.29	13.71	6.91	38.45	685.32	5,695.20	5,478.51	5,460.83	17.69	309.718		
3,100.00	2,988.02	1,620.00	1,591.43	14.52	7.29	38.72	680.43	5,711.82	5,464.97	5,446.41	18.56	294.371		
3,200.00	3,076.63	1,765.30	1,732.19	15.34	8.10	39.30	670.37	5,746.42	5,451.18	5,431.38	19.80	275.292		
3,300.00	3,165.24	1,851.94	1,816.22	16.16	8.58	39.64	664.70	5,766.75	5,437.40	5,416.62	20.78	261.647		
3,400.00	3,253.85	1,969.98	1,930.77	17.00	9.22	40.11	657.77	5,794.38	5,423.86	5,401.95	21.91	247.563		
3,500.00	3,342.46	2,069.56	2,027.60	17.84	9.76	40.49	653.00	5,817.16	5,410.03	5,387.08	22.96	235.647		
3,600.00	3,431.07	2,167.58	2,122.90	18.69	10.29	40.87	648.35	5,839.56	5,396.43	5,372.42	24.01	224.762		
3,700.00	3,519.68	2,249.55	2,202.56	19.55	10.74	41.19	643.59	5,858.30	5,383.07	5,358.07	25.00	215.282		
3,800.00	3,608.29	2,355.05	2,304.97	20.40	11.32	41.63	636.08	5,882.48	5,370.03	5,343.91	26.12	205.596		
3,900.00	3,696.90	3,900.00	2,410.53	21.26	19.74	42.08	628.40	5,906.86	5,356.79	5,323.63	33.17	161.501		
4,000.00	3,785.51	2,518.82	2,464.12	22.13	12.21	42.31	624.37	5,919.34	5,344.06	5,315.90	28.16	189.779		
4,100.00	3,874.12	2,586.52	2,529.75	23.00	12.59	42.59	619.59	5,935.22	5,332.30	5,303.18	29.13	183.082		
4,200.00	3,962.73	2,835.00	2,771.74	23.87	13.92	43.60	605.12	5,989.67	5,319.02	5,288.12	30.90	172.123		
4,300.00	4,051.34	2,884.10	2,819.70	24.74	14.18	43.80	602.21	5,999.74	5,305.27	5,273.47	31.80	166.836		
4,400.00	4,139.95	2,928.00	2,862.38	25.62	14.41	43.99	599.05	6,009.52	5,293.03	5,260.35	32.68	161.979		
4,500.00	4,228.56	2,974.80	2,907.79	26.49	14.67	44.19	595.66	6,020.33	5,281.88	5,248.30	33.57	157.320		
4,600.00	4,317.17	3,076.16	3,006.22	27.37	15.23	44.61	589.81	6,043.79	5,271.15	5,236.43	34.73	151.796		
4,700.00	4,405.78	3,176.30	3,103.54	28.25	15.78	45.02	584.37	6,066.75	5,260.47	5,224.59	35.88	146.632		
4,800.00	4,494.39	3,314.00	3,237.46	29.13	16.52	45.59	576.12	6,097.69	5,249.67	5,212.46	37.21	141.099		
4,900.00	4,583.00	3,380.99	3,302.68	30.02	16.88	45.87	572.66	6,112.63	5,238.90	5,200.69	38.21	137.091		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	3,448.58	3,368.41	30.90	17.25	46.15	569.25	6,128.03	5,228.84	5,189.61	39.23	133.278		
5,100.00	4,760.22	3,522.26	3,439.94	31.79	17.66	46.46	564.67	6,145.06	5,219.47	5,179.18	40.29	129.556		
5,200.00	4,848.83	3,637.13	3,551.37	32.67	18.30	46.96	555.92	6,171.54	5,210.50	5,168.95	41.55	125.401		
5,300.00	4,937.44	3,819.73	3,729.12	33.56	19.28	47.75	543.69	6,211.51	5,200.60	5,157.47	43.13	120.578		
5,400.00	5,026.05	3,933.71	3,840.42	34.45	19.87	48.23	537.76	6,235.31	5,189.86	5,145.47	44.38	116.932		
5,500.00	5,114.66	4,010.20	3,915.15	35.34	20.27	48.54	534.71	6,251.41	5,179.44	5,133.97	45.47	113.911		
5,600.00	5,203.27	5,245.79	5,138.53	36.23	25.12	53.79	501.38	6,390.20	5,169.60	5,119.22	50.39	102.600		
5,700.00	5,291.88	5,338.21	5,230.95	37.12	25.34	54.19	501.92	6,389.92	5,139.82	5,088.35	51.47	99.857		
5,800.00	5,380.50	5,448.62	5,341.35	38.01	25.61	54.67	503.08	6,389.44	5,110.11	5,057.52	52.60	97.156		
5,900.00	5,469.11	5,541.75	5,434.47	38.90	25.84	55.07	504.18	6,388.75	5,080.36	5,026.66	53.70	94.608		
6,000.00	5,557.72	5,633.79	5,526.51	39.79	26.06	55.48	505.23	6,388.01	5,050.80	4,995.99	54.81	92.155		
6,100.00	5,646.33	5,738.88	5,631.59	40.68	26.31	55.95	506.16	6,386.93	5,021.33	4,965.38	55.95	89.754		
6,200.00	5,734.94	5,847.64	5,740.33	41.58	26.57	56.44	506.89	6,385.35	4,991.79	4,934.69	57.10	87.427		
6,300.00	5,823.55	5,954.50	5,847.17	42.47	26.83	56.94	507.63	6,383.36	4,962.14	4,903.89	58.25	85.184		
6,400.00	5,912.16	6,046.44	5,939.09	43.36	27.05	57.37	508.19	6,381.40	4,932.55	4,873.16	59.39	83.049		
6,500.00	6,000.77	6,126.67	6,019.31	44.26	27.24	57.75	508.71	6,379.76	4,903.32	4,842.79	60.52	81.013		
6,600.00	6,089.38	6,207.87	6,100.48	45.15	27.44	58.14	509.03	6,378.18	4,874.50	4,812.83	61.67	79.044		
6,700.00	6,177.99	6,302.06	6,194.65	46.05	27.68	58.60	509.08	6,376.29	4,845.98	4,783.14	62.84	77.114		
6,800.00	6,266.60	6,362.92	6,255.51	46.94	27.83	58.90	508.96	6,375.18	4,817.96	4,753.99	63.97	75.313		
6,900.00	6,355.21	6,416.44	6,309.02	47.84	27.97	59.17	508.75	6,374.49	4,790.77	4,725.67	65.10	73.590		
7,000.00	6,443.82	6,461.91	6,354.49	48.74	28.09	59.40	508.57	6,374.30	4,764.65	4,698.43	66.22	71.950		
7,100.00	6,532.43	6,509.03	6,401.61	49.63	28.22	59.63	508.39	6,374.56	4,739.63	4,672.28	67.35	70.371		
7,200.00	6,621.04	6,558.16	6,450.73	50.53	28.37	59.88	508.13	6,375.23	4,715.69	4,647.20	68.49	68.849		
7,300.00	6,709.65	6,700.08	6,592.63	51.42	28.79	60.60	507.26	6,377.18	4,692.20	4,622.35	69.85	67.175		
7,400.00	6,798.26	6,802.11	6,694.66	52.32	29.09	61.13	506.72	6,377.69	4,668.17	4,597.05	71.12	65.637		
7,500.00	6,886.87	6,901.37	6,793.92	53.22	29.37	61.64	506.06	6,377.82	4,644.20	4,571.81	72.39	64.156		
7,600.00	6,975.48	6,982.45	6,874.99	54.12	29.60	62.07	505.48	6,377.87	4,620.54	4,546.92	73.63	62.756		
7,656.30	7,025.36	7,021.25	6,913.80	54.62	29.71	62.28	505.14	6,377.98	4,607.50	4,533.19	74.31	62.001		
7,700.00	7,064.54	7,052.49	6,945.03	55.00	29.80	62.47	504.81	6,378.12	4,596.92	4,522.10	74.82	61.436		
7,750.00	7,110.29	7,102.99	6,995.53	55.40	29.95	62.73	504.27	6,378.36	4,583.42	4,508.05	75.38	60.808		
7,800.00	7,156.67	7,154.23	7,046.77	55.75	30.10	62.92	503.76	6,378.56	4,568.43	4,492.58	75.85	60.227		
7,850.00	7,203.34	7,196.71	7,089.24	56.05	30.22	63.11	503.32	6,378.73	4,552.10	4,475.87	76.23	59.713		
7,900.00	7,249.95	7,242.26	7,134.79	56.30	30.35	63.28	502.81	6,378.92	4,534.54	4,458.01	76.54	59.246		
7,950.00	7,296.14	7,299.09	7,191.62	56.50	30.52	-12.29	502.11	6,379.07	4,515.81	4,439.02	76.79	58.810		
8,000.00	7,341.56	7,350.13	7,242.65	56.64	30.67	-23.78	501.41	6,379.07	4,496.01	4,419.06	76.94	58.433		
8,050.00	7,385.86	7,394.12	7,286.64	56.74	30.80	-33.52	500.83	6,379.07	4,475.38	4,398.37	77.01	58.114		
8,100.00	7,428.71	7,436.71	7,329.22	56.79	30.92	-41.81	500.31	6,379.08	4,454.14	4,377.14	77.00	57.847		
8,150.00	7,469.77	7,477.56	7,370.07	56.80	31.04	-48.96	499.84	6,379.11	4,432.48	4,355.57	76.91	57.629		
8,200.00	7,508.75	7,516.36	7,408.87	56.77	31.15	-55.22	499.42	6,379.15	4,410.61	4,333.85	76.76	57.462		
8,250.00	7,545.33	7,556.08	7,448.59	56.70	31.27	-60.79	499.03	6,379.19	4,388.74	4,312.21	76.54	57.341		
8,300.00	7,579.25	7,592.92	7,485.43	56.59	31.37	-65.79	498.73	6,379.22	4,367.10	4,290.85	76.25	57.271		
8,350.00	7,610.24	7,622.44	7,514.95	56.45	31.46	-70.23	498.52	6,379.24	4,345.93	4,270.03	75.90	57.258		
8,400.00	7,638.06	7,645.18	7,537.69	56.28	31.53	-74.15	498.36	6,379.28	4,325.50	4,250.01	75.49	57.300		
8,450.00	7,662.52	7,665.22	7,557.72	56.09	31.59	-77.62	498.23	6,379.35	4,306.05	4,231.02	75.03	57.390		
8,500.00	7,683.41	7,682.38	7,574.89	55.88	31.64	-80.66	498.12	6,379.42	4,287.78	4,213.25	74.53	57.528		
8,550.00	7,700.59	7,713.21	7,587.29	55.64	31.73	-83.26	498.04	6,379.48	4,270.89	4,196.83	74.06	57.665		
8,600.00	7,713.91	7,708.44	7,600.95	55.39	31.72	-85.50	497.95	6,379.57	4,255.58	4,182.13	73.45	57.939		
8,650.00	7,723.29	7,718.15	7,610.65	55.14	31.75	-87.33	497.89	6,379.63	4,241.98	4,169.11	72.88	58.206		
8,700.00	7,728.64	7,723.82	7,616.33	54.87	31.76	-88.74	497.86	6,379.66	4,230.27	4,157.97	72.30	58.513		
8,740.83	7,730.00	7,725.44	7,617.94	54.65	31.77	-89.59	497.85	6,379.67	4,222.17	4,150.35	71.82	58.791		
8,800.00	7,730.00	7,725.81	7,618.31	54.33	31.77	-89.59	497.84	6,379.67	4,211.83	4,140.70	71.14	59.209		
8,900.00	7,730.00	7,726.43	7,618.94	53.82	31.77	-89.60	497.84	6,379.68	4,196.20	4,126.14	70.06	59.897		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,727.06	7,619.56	53.33	31.77	-89.61	497.84	6,379.68	4,182.90	4,113.82	69.08	60.554		
9,100.00	7,730.00	7,727.69	7,620.19	52.87	31.77	-89.62	497.83	6,379.68	4,171.95	4,103.74	68.21	61.163		
9,200.00	7,730.00	7,728.31	7,620.81	52.44	31.78	-89.62	497.83	6,379.69	4,163.38	4,095.91	67.47	61.707		
9,300.00	7,730.00	7,728.94	7,621.44	52.03	31.78	-89.63	497.82	6,379.69	4,157.20	4,090.33	66.87	62.173		
9,400.00	7,730.00	7,729.56	7,622.06	51.65	31.78	-89.64	497.82	6,379.70	4,153.41	4,087.00	66.41	62.543		
9,500.00	7,730.00	7,730.19	7,622.69	51.29	31.78	-89.65	497.82	6,379.70	4,152.03	4,085.93	66.11	62.808 ES		
9,507.26	7,730.00	7,730.23	7,622.74	51.26	31.78	-89.65	497.82	6,379.70	4,152.03	4,085.93	66.09	62.820 CC		
9,600.00	7,730.00	7,730.81	7,623.32	50.95	31.78	-89.66	497.81	6,379.70	4,153.06	4,087.10	65.97	62.957		
9,700.00	7,730.00	7,731.44	7,623.94	50.64	31.79	-89.67	497.81	6,379.71	4,156.50	4,090.51	65.99	62.987		
9,800.00	7,730.00	7,732.06	7,624.57	50.35	31.79	-89.68	497.80	6,379.71	4,162.33	4,096.16	66.18	62.897		
9,900.00	7,730.00	7,732.69	7,625.19	50.09	31.79	-89.69	497.80	6,379.71	4,170.56	4,104.04	66.52	62.692		
10,000.00	7,730.00	7,733.32	7,625.82	49.86	31.79	-89.69	497.80	6,379.72	4,181.16	4,114.14	67.03	62.381		
10,100.00	7,730.00	7,733.94	7,626.44	49.65	31.79	-89.70	497.79	6,379.72	4,194.12	4,126.45	67.67	61.977		
10,200.00	7,730.00	7,734.57	7,627.07	49.48	31.80	-89.71	497.79	6,379.73	4,209.42	4,140.97	68.45	61.494		
10,300.00	7,730.00	7,735.19	7,627.69	49.35	31.80	-89.72	497.79	6,379.73	4,227.03	4,157.67	69.36	60.947		
10,400.00	7,730.00	7,735.82	7,628.32	49.27	31.80	-89.73	497.78	6,379.73	4,246.91	4,176.55	70.37	60.354		
10,500.00	7,730.00	7,736.44	7,628.95	49.26	31.80	-89.74	497.78	6,379.74	4,269.05	4,197.58	71.47	59.730		
10,600.00	7,730.00	7,737.07	7,629.57	49.32	31.80	-89.75	497.77	6,379.74	4,293.41	4,220.75	72.66	59.088		
10,700.00	7,730.00	7,737.69	7,630.20	49.51	31.81	-89.75	497.77	6,379.74	4,319.94	4,246.02	73.92	58.442		
10,800.00	7,730.00	7,738.32	7,630.82	49.83	31.81	-89.76	497.77	6,379.75	4,348.61	4,273.38	75.23	57.803		
10,900.00	7,730.00	7,738.95	7,631.45	50.31	31.81	-89.77	497.76	6,379.75	4,379.38	4,302.79	76.59	57.179		
11,000.00	7,730.00	7,739.57	7,632.07	50.96	31.81	-89.78	497.76	6,379.76	4,412.20	4,334.22	77.98	56.578		
11,100.00	7,730.00	7,740.20	7,632.70	51.75	31.81	-89.79	497.75	6,379.76	4,447.03	4,367.63	79.40	56.007		
11,200.00	7,730.00	7,740.82	7,633.32	52.66	31.81	-89.80	497.75	6,379.76	4,483.81	4,402.98	80.84	55.468		
11,300.00	7,730.00	7,741.45	7,633.95	53.67	31.82	-89.81	497.75	6,379.77	4,522.51	4,440.23	82.28	54.966		
11,400.00	7,730.00	7,742.07	7,634.58	54.75	31.82	-89.81	497.74	6,379.77	4,563.08	4,479.35	83.72	54.502		
11,500.00	7,730.00	7,742.70	7,635.20	55.89	31.82	-89.82	497.74	6,379.77	4,605.45	4,520.29	85.16	54.078		
11,600.00	7,730.00	7,743.32	7,635.83	57.07	31.82	-89.83	497.73	6,379.78	4,649.59	4,563.00	86.59	53.694		
11,700.00	7,730.00	7,743.95	7,636.45	58.30	31.82	-89.84	497.73	6,379.78	4,695.45	4,607.44	88.01	53.351		
11,800.00	7,730.00	7,744.57	7,637.08	59.55	31.83	-89.85	497.73	6,379.79	4,742.97	4,653.56	89.41	53.047		
11,900.00	7,730.00	7,745.20	7,637.70	60.84	31.83	-89.86	497.72	6,379.79	4,792.11	4,701.32	90.79	52.783		
12,000.00	7,730.00	7,745.83	7,638.33	62.15	31.83	-89.87	497.72	6,379.79	4,842.81	4,750.67	92.14	52.557		
12,100.00	7,730.00	7,746.45	7,638.95	63.49	31.83	-89.88	497.71	6,379.80	4,895.03	4,801.56	93.47	52.367		
12,200.00	7,730.00	7,747.08	7,639.58	64.85	31.83	-89.88	497.71	6,379.80	4,948.73	4,853.95	94.78	52.214		
12,300.00	7,730.00	7,747.70	7,640.20	66.22	31.84	-89.89	497.71	6,379.81	5,003.84	4,907.79	96.05	52.095		
12,400.00	7,730.00	7,748.33	7,640.83	67.62	31.84	-89.90	497.70	6,379.81	5,060.33	4,963.04	97.30	52.010		
12,500.00	7,730.00	7,748.95	7,641.46	69.03	31.84	-89.91	497.70	6,379.81	5,118.15	5,019.64	98.51	51.956		
12,600.00	7,730.00	7,749.58	7,642.08	70.45	31.84	-89.92	497.69	6,379.82	5,177.26	5,077.57	99.69	51.933 SF		
12,700.00	7,730.00	7,750.20	7,642.71	71.90	31.84	-89.93	497.69	6,379.82	5,237.61	5,136.76	100.84	51.938		
12,800.00	7,730.00	7,750.83	7,643.33	73.35	31.85	-89.94	497.69	6,379.82	5,299.15	5,197.19	101.96	51.971		
12,900.00	7,730.00	7,751.46	7,643.96	74.81	31.85	-89.94	497.68	6,379.83	5,361.86	5,258.81	103.05	52.031		
13,000.00	7,730.00	7,752.08	7,644.58	76.29	31.85	-89.95	497.68	6,379.83	5,425.69	5,321.58	104.11	52.116		
13,100.00	7,730.00	7,752.71	7,645.21	77.78	31.85	-89.96	497.68	6,379.84	5,490.59	5,385.46	105.13	52.225		
13,200.00	7,730.00	7,753.33	7,645.83	79.28	31.85	-89.97	497.67	6,379.84	5,556.54	5,450.41	106.13	52.356		
13,300.00	7,730.00	7,753.96	7,646.46	80.79	31.85	-89.98	497.67	6,379.84	5,623.49	5,516.39	107.10	52.509		
13,400.00	7,730.00	7,754.58	7,647.09	82.31	31.86	-89.99	497.66	6,379.85	5,691.41	5,583.38	108.03	52.683		
13,500.00	7,730.00	7,755.21	7,647.71	83.84	31.86	-90.00	497.66	6,379.85	5,760.27	5,651.33	108.94	52.876		
13,600.00	7,730.00	7,755.83	7,648.34	85.37	31.86	-90.00	497.66	6,379.85	5,830.03	5,720.21	109.82	53.088		
13,700.00	7,730.00	7,756.46	7,648.96	86.92	31.86	-90.01	497.65	6,379.86	5,900.65	5,789.98	110.67	53.318		
13,800.00	7,730.00	7,757.09	7,649.59	88.47	31.86	-90.02	497.65	6,379.86	5,972.12	5,860.63	111.49	53.565		
13,900.00	7,730.00	7,757.71	7,650.21	90.03	31.87	-90.03	497.64	6,379.87	6,044.40	5,932.11	112.29	53.828		
14,000.00	7,730.00	7,758.34	7,650.84	91.59	31.87	-90.04	497.64	6,379.87	6,117.45	6,004.39	113.06	54.106		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
14,100.00	7,730.00	7,758.96	7,651.46	93.16	31.87	-90.05	497.64	6,379.87	6,191.27	6,077.45	113.81	54.399		
14,200.00	7,730.00	7,759.59	7,652.09	94.74	31.87	-90.06	497.63	6,379.88	6,265.80	6,151.27	114.54	54.706		
14,300.00	7,730.00	7,760.21	7,652.71	96.33	31.87	-90.07	497.63	6,379.88	6,341.04	6,225.80	115.24	55.026		
14,400.00	7,730.00	7,760.84	7,653.34	97.92	31.88	-90.07	497.62	6,379.88	6,416.95	6,301.04	115.92	55.358		
14,500.00	7,730.00	7,761.46	7,653.97	99.51	31.88	-90.08	497.62	6,379.89	6,493.52	6,376.95	116.57	55.703		
14,600.00	7,730.00	7,762.09	7,654.59	101.11	31.88	-90.09	497.62	6,379.89	6,570.72	6,453.51	117.21	56.059		
14,700.00	7,730.00	7,762.72	7,655.22	102.72	31.88	-90.10	497.61	6,379.90	6,648.52	6,530.69	117.83	56.426		
14,800.00	7,730.00	7,763.34	7,655.84	104.33	31.88	-90.11	497.61	6,379.90	6,726.91	6,608.49	118.42	56.804		
14,900.00	7,730.00	7,763.97	7,656.47	105.94	31.89	-90.12	497.60	6,379.90	6,805.87	6,686.87	119.00	57.191		
15,000.00	7,730.00	7,764.59	7,657.09	107.56	31.89	-90.13	497.60	6,379.91	6,885.37	6,765.81	119.56	57.589		
15,100.00	7,730.00	7,765.22	7,657.72	109.18	31.89	-90.13	497.60	6,379.91	6,965.40	6,845.30	120.10	57.995		
15,200.00	7,730.00	7,765.84	7,658.34	110.81	31.89	-90.14	497.59	6,379.92	7,045.95	6,925.32	120.63	58.410		
15,300.00	7,730.00	7,766.47	7,658.97	112.44	31.89	-90.15	497.59	6,379.92	7,126.98	7,005.84	121.14	58.834		
15,400.00	7,730.00	7,767.09	7,659.60	114.08	31.89	-90.16	497.58	6,379.92	7,208.49	7,086.86	121.63	59.265		
15,500.00	7,730.00	7,767.72	7,660.22	115.72	31.90	-90.17	497.58	6,379.93	7,290.46	7,168.35	122.11	59.704		
15,600.00	7,730.00	7,768.34	7,660.85	117.36	31.90	-90.18	497.58	6,379.93	7,372.88	7,250.31	122.57	60.151		
15,700.00	7,730.00	7,768.97	7,661.47	119.00	31.90	-90.19	497.57	6,379.93	7,455.73	7,332.70	123.02	60.604		
15,800.00	7,730.00	7,769.60	7,662.10	120.65	31.90	-90.19	497.57	6,379.94	7,538.99	7,415.53	123.46	61.064		
15,900.00	7,730.00	7,770.22	7,662.72	122.30	31.90	-90.20	497.57	6,379.94	7,622.65	7,498.77	123.88	61.531		
16,000.00	7,730.00	7,770.85	7,663.35	123.96	31.91	-90.21	497.56	6,379.95	7,706.71	7,582.41	124.29	62.004		
16,100.00	7,730.00	7,771.47	7,663.97	125.61	31.91	-90.22	497.56	6,379.95	7,791.14	7,666.45	124.69	62.483		
16,200.00	7,730.00	7,772.10	7,664.60	127.27	31.91	-90.23	497.55	6,379.95	7,875.93	7,750.85	125.08	62.967		
16,300.00	7,730.00	7,772.72	7,665.22	128.94	31.91	-90.24	497.55	6,379.96	7,961.08	7,835.63	125.46	63.457		
16,400.00	7,730.00	7,773.35	7,665.85	130.60	31.91	-90.25	497.55	6,379.96	8,046.57	7,920.75	125.82	63.953		
16,500.00	7,730.00	7,773.97	7,666.48	132.27	31.92	-90.25	497.54	6,379.96	8,132.39	8,006.22	126.18	64.453		
16,600.00	7,730.00	7,774.60	7,667.10	133.94	31.92	-90.26	497.54	6,379.97	8,218.54	8,092.01	126.52	64.958		
16,700.00	7,730.00	7,775.23	7,667.73	135.61	31.92	-90.27	497.53	6,379.97	8,304.99	8,178.13	126.86	65.468		
16,800.00	7,730.00	7,775.85	7,668.35	137.28	31.92	-90.28	497.53	6,379.98	8,391.74	8,264.56	127.18	65.982		
16,900.00	7,730.00	7,776.48	7,668.98	138.96	31.92	-90.29	497.53	6,379.98	8,478.78	8,351.29	127.50	66.501		
17,000.00	7,730.00	7,777.10	7,669.60	140.64	31.93	-90.30	497.52	6,379.98	8,566.11	8,438.31	127.81	67.024		
17,100.00	7,730.00	7,777.73	7,670.23	142.32	31.93	-90.31	497.52	6,379.99	8,653.71	8,525.61	128.11	67.550		
17,200.00	7,730.00	7,778.35	7,670.85	144.00	31.93	-90.32	497.51	6,379.99	8,741.58	8,613.18	128.40	68.081		
17,300.00	7,730.00	7,778.98	7,671.48	145.69	31.93	-90.32	497.51	6,379.99	8,829.71	8,701.02	128.68	68.615		
17,400.00	7,730.00	7,779.60	7,672.11	147.37	31.93	-90.33	497.51	6,380.00	8,918.08	8,789.12	128.96	69.153		
17,500.00	7,730.00	7,780.23	7,672.73	149.06	31.93	-90.34	497.50	6,380.00	9,006.70	8,877.47	129.23	69.694		
17,600.00	7,730.00	7,780.86	7,673.36	150.75	31.94	-90.35	497.50	6,380.01	9,095.56	8,966.06	129.50	70.239		
17,700.00	7,730.00	7,781.48	7,673.98	152.44	31.94	-90.36	497.49	6,380.01	9,184.64	9,054.89	129.75	70.786		
17,800.00	7,730.00	7,782.11	7,674.61	154.13	31.94	-90.37	497.49	6,380.01	9,273.95	9,143.95	130.00	71.337		
17,900.00	7,730.00	7,782.73	7,675.23	155.83	31.94	-90.38	497.49	6,380.02	9,363.47	9,233.23	130.25	71.891		
18,000.00	7,730.00	7,783.36	7,675.86	157.52	31.94	-90.38	497.48	6,380.02	9,453.21	9,322.72	130.48	72.447		
18,100.00	7,730.00	7,783.98	7,676.48	159.22	31.95	-90.39	497.48	6,380.03	9,543.15	9,412.43	130.72	73.006		
18,200.00	7,730.00	7,784.61	7,677.11	160.92	31.95	-90.40	497.48	6,380.03	9,633.28	9,502.34	130.94	73.568		
18,300.00	7,730.00	7,785.23	7,677.73	162.62	31.95	-90.41	497.47	6,380.03	9,723.61	9,592.44	131.16	74.133		
18,400.00	7,730.00	7,785.86	7,678.36	164.32	31.95	-90.42	497.47	6,380.04	9,814.13	9,682.74	131.38	74.700		
18,426.22	7,730.00	7,786.02	7,678.52	164.76	31.95	-90.42	497.47	6,380.04	9,837.89	9,706.45	131.44	74.849		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	82.07	757.95	5,444.20	5,497.34					
100.00	100.00	21.09	21.09	0.13	0.03	82.07	757.94	5,444.20	5,496.71	5,496.54	0.17	N/A		
199.96	199.96	116.97	116.96	0.49	0.26	82.08	757.31	5,444.13	5,496.55	5,495.80	0.75	7,332.552		
200.00	200.00	116.99	116.99	0.49	0.26	82.08	757.31	5,444.13	5,496.55	5,495.80	0.75	7,330.243		
300.00	300.00	169.00	168.97	0.85	0.45	82.10	755.85	5,444.43	5,496.86	5,495.56	1.30	4,242.066		
400.00	400.00	234.90	234.77	1.21	0.69	82.13	752.50	5,445.51	5,497.88	5,495.98	1.90	2,897.078		
500.00	500.00	292.12	291.81	1.57	0.91	82.18	748.22	5,447.22	5,499.79	5,497.31	2.47	2,224.123		
600.00	600.00	351.00	350.39	1.93	1.13	82.24	742.78	5,449.50	5,502.41	5,499.35	3.06	1,799.448		
700.00	700.00	410.35	409.31	2.29	1.37	82.31	736.16	5,452.38	5,505.78	5,502.12	3.66	1,505.903		
800.00	800.00	442.00	440.64	2.64	1.50	82.35	732.13	5,454.19	5,510.05	5,505.90	4.14	1,330.015		
900.00	900.00	494.08	492.05	3.00	1.73	82.44	724.66	5,457.82	5,515.30	5,510.57	4.73	1,166.977		
1,000.00	1,000.00	533.00	530.32	3.36	1.90	82.51	718.40	5,461.17	5,521.77	5,516.52	5.25	1,051.501		
1,100.00	1,100.00	565.36	562.03	3.72	2.06	82.57	712.77	5,464.37	5,529.41	5,523.65	5.76	960.281		
1,200.00	1,200.00	624.00	619.21	4.08	2.34	82.69	701.69	5,471.14	5,538.37	5,531.98	6.39	866.956		
1,300.00	1,299.98	644.90	639.50	4.43	2.45	35.52	697.46	5,473.80	5,546.78	5,539.94	6.84	810.756		
1,400.00	1,399.84	715.00	707.22	4.79	2.82	35.64	681.96	5,483.13	5,553.28	5,545.73	7.55	736.011		
1,500.00	1,499.45	757.78	748.30	5.15	3.07	35.72	671.64	5,489.21	5,557.75	5,549.62	8.13	683.919		
1,600.00	1,598.70	808.00	796.25	5.51	3.36	35.87	658.85	5,496.84	5,560.41	5,551.66	8.75	635.413		
1,700.00	1,697.47	858.35	844.05	5.89	3.67	36.05	645.29	5,504.95	5,561.20	5,551.80	9.40	591.564		
1,800.00	1,795.62	914.77	897.32	6.28	4.03	36.30	629.26	5,514.43	5,560.04	5,549.94	10.10	550.733		
1,900.00	1,893.06	975.50	954.51	6.69	4.43	36.61	611.79	5,525.00	5,566.91	5,546.07	10.84	512.864		
2,000.00	1,989.64	1,065.47	1,039.07	7.13	5.03	37.10	585.55	5,540.97	5,551.63	5,539.85	11.78	471.149		
2,100.00	2,085.27	1,148.79	1,117.14	7.61	5.60	37.61	560.47	5,555.75	5,543.92	5,531.20	12.71	436.028		
2,200.00	2,179.82	1,360.78	1,316.72	8.12	7.04	38.83	497.94	5,590.30	5,532.20	5,517.70	14.50	381.435		
2,300.00	2,273.17	1,400.66	1,354.27	8.67	7.32	39.22	486.10	5,596.65	5,518.33	5,503.15	15.19	363.392		
2,400.00	2,365.21	1,433.00	1,384.64	9.27	7.54	39.60	476.38	5,602.04	5,502.97	5,487.13	15.84	347.404		
2,500.00	2,455.84	1,476.88	1,425.67	9.92	7.85	40.09	462.85	5,609.69	5,486.14	5,469.53	16.61	330.299		
2,580.62	2,527.80	1,527.00	1,472.24	10.49	8.21	40.60	446.79	5,618.93	5,471.65	5,454.29	17.35	315.313		
2,600.00	2,544.97	1,527.00	1,472.24	10.63	8.21	40.60	446.79	5,618.93	5,468.01	5,450.56	17.45	313.327		
2,700.00	2,633.58	1,579.72	1,521.06	11.37	8.61	40.94	429.55	5,628.90	5,450.07	5,431.73	18.34	297.126		
2,800.00	2,722.19	1,661.01	1,596.35	12.13	9.21	41.47	402.98	5,644.19	5,432.78	5,413.32	19.46	279.242		
2,900.00	2,810.80	2,900.00	1,708.03	12.91	18.27	42.24	364.70	5,666.33	5,415.79	5,387.48	28.31	191.314		
3,000.00	2,899.41	1,889.27	1,809.11	13.71	10.87	42.94	331.38	5,685.42	5,398.73	5,376.57	22.16	243.571		
3,100.00	2,988.02	1,968.48	1,883.46	14.52	11.43	43.44	307.93	5,699.46	5,382.36	5,359.08	23.28	231.208		
3,200.00	3,076.63	2,044.89	1,955.30	15.34	11.96	43.92	285.69	5,713.03	5,366.62	5,342.23	24.38	220.091		
3,300.00	3,165.24	2,112.35	2,018.67	16.16	12.44	44.35	265.99	5,725.09	5,351.60	5,326.16	25.44	210.361		
3,400.00	3,253.85	2,170.37	2,073.04	17.00	12.85	44.72	248.68	5,735.64	5,337.50	5,311.06	26.45	201.830		
3,500.00	3,342.46	2,230.11	2,128.87	17.84	13.28	45.10	230.54	5,746.70	5,324.37	5,296.90	27.48	193.787		
3,600.00	3,431.07	2,300.00	2,229.32	18.69	23.06	45.80	198.21	5,766.53	5,311.85	5,275.05	36.80	144.344		
3,700.00	3,519.68	2,479.79	2,363.17	19.55	15.04	46.71	156.85	5,791.50	5,298.97	5,268.53	30.44	174.090		
3,800.00	3,608.29	2,546.81	2,426.27	20.40	15.51	47.14	137.50	5,803.12	5,286.68	5,255.15	31.53	167.678		
3,900.00	3,696.90	2,607.44	2,483.18	21.26	15.94	47.54	119.47	5,813.72	5,275.28	5,242.69	32.59	161.856		
4,000.00	3,785.51	2,685.11	2,555.78	22.13	16.49	48.05	95.50	5,827.42	5,264.82	5,231.04	33.78	155.855		
4,100.00	3,874.12	2,779.58	2,644.59	23.00	17.16	48.67	67.89	5,844.02	5,254.74	5,219.65	35.08	149.772		
4,200.00	3,962.73	2,836.00	2,697.58	23.87	17.55	49.04	51.25	5,853.94	5,245.42	5,209.30	36.13	145.194		
4,300.00	4,051.34	2,895.09	2,752.90	24.74	17.98	49.43	33.39	5,864.50	5,237.12	5,199.92	37.20	140.784		
4,400.00	4,139.95	2,949.29	2,803.49	25.62	18.37	49.79	16.67	5,874.42	5,229.95	5,191.71	38.24	136.760		
4,500.00	4,228.56	3,010.75	2,860.75	26.49	18.82	50.20	-2.53	5,885.85	5,223.79	5,184.45	39.34	132.780		
4,600.00	4,317.17	3,085.33	2,930.10	27.37	19.38	50.70	-26.14	5,899.82	5,218.53	5,177.99	40.54	128.713		
4,700.00	4,405.78	3,170.65	3,009.28	28.25	20.02	51.29	-53.71	5,915.63	5,213.98	5,172.15	41.84	124.632		
4,800.00	4,494.39	3,310.01	3,138.52	29.13	21.06	52.25	-99.55	5,940.46	5,209.81	5,166.27	43.54	119.658		
4,900.00	4,583.00	3,402.59	3,225.07	30.02	21.73	52.87	-128.09	5,956.74	5,205.67	5,160.80	44.87	116.016		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	3,460.27	3,279.18	30.90	22.14	53.25	-145.16	5,967.13	5,202.29	5,156.35	45.94	113.243		
5,100.00	4,760.22	3,511.58	3,327.26	31.79	22.51	53.59	-160.39	5,976.57	5,199.95	5,152.98	46.96	110.720		
5,200.00	4,848.83	3,553.39	3,366.28	32.67	22.82	53.87	-173.18	5,984.43	5,198.84	5,150.92	47.92	108.486		
5,235.50	4,880.29	3,568.09	3,379.96	32.99	22.93	53.97	-177.77	5,987.24	5,198.76	5,150.50	48.26	107.724		
5,300.00	4,937.44	3,605.46	3,414.65	33.56	23.20	54.22	-189.63	5,994.45	5,199.02	5,150.06	48.95	106.203		
5,400.00	5,026.05	3,799.00	3,595.35	34.45	24.61	55.52	-248.58	6,030.89	5,199.51	5,148.48	51.03	101.889		
5,449.66	5,070.06	3,837.46	3,631.48	34.89	24.89	55.77	-259.80	6,037.81	5,199.42	5,147.79	51.63	100.704		
5,500.00	5,114.66	3,875.67	3,667.38	35.34	25.16	56.02	-270.92	6,044.71	5,199.51	5,147.28	52.23	99.542		
5,600.00	5,203.27	3,945.89	3,733.15	36.23	25.66	56.49	-292.13	6,057.18	5,200.31	5,146.92	53.40	97.388		
5,700.00	5,291.88	3,993.01	3,777.10	37.12	26.00	56.81	-306.93	6,065.49	5,202.11	5,147.72	54.39	95.641		
5,800.00	5,380.50	4,034.21	3,815.48	38.01	26.31	57.09	-319.84	6,073.09	5,205.19	5,149.86	55.34	94.062		
5,900.00	5,469.11	4,093.13	3,870.32	38.90	26.74	57.49	-338.20	6,084.40	5,209.51	5,153.09	56.41	92.346		
6,000.00	5,557.72	4,205.68	3,975.09	39.79	27.58	58.24	-373.18	6,105.96	5,214.55	5,156.65	57.90	90.063		
6,100.00	5,646.33	4,286.93	4,050.75	40.68	28.18	58.79	-398.89	6,120.71	5,219.68	5,160.53	59.14	88.254		
6,200.00	5,734.94	4,337.00	4,097.37	41.58	28.55	59.13	-414.56	6,130.10	5,225.87	5,165.73	60.14	86.888		
6,300.00	5,823.55	4,388.78	4,145.54	42.47	28.93	59.47	-430.67	6,140.14	5,233.20	5,172.05	61.15	85.578		
6,400.00	5,912.16	4,442.87	4,195.79	43.36	29.34	59.83	-447.52	6,150.98	5,241.68	5,179.51	62.17	84.312		
6,500.00	6,000.77	4,527.53	4,274.36	44.26	29.98	60.40	-474.07	6,167.96	5,250.98	5,187.55	63.43	82.787		
6,600.00	6,089.38	4,632.97	4,371.99	45.15	30.78	61.11	-508.44	6,188.09	5,260.73	5,195.87	64.86	81.109		
6,700.00	6,177.99	4,639.28	4,127.07	46.05	39.27	71.48	-805.46	6,357.38	5,261.65	5,187.65	74.00	71.104		
6,800.00	6,266.60	4,541.50	6,229.28	46.94	39.46	71.99	-805.71	6,356.39	5,244.64	5,169.59	75.05	69.882		
6,900.00	6,355.21	6,647.75	6,335.53	47.84	39.64	72.51	-805.66	6,355.20	5,227.77	5,151.67	76.10	68.692		
7,000.00	6,443.82	6,728.76	6,416.53	48.74	39.79	72.92	-805.47	6,354.19	5,211.09	5,133.96	77.14	67.557		
7,100.00	6,532.43	7,100.00	6,526.36	49.63	40.43	73.46	-804.90	6,352.89	5,194.71	5,115.91	78.81	65.917		
7,200.00	6,621.04	6,947.76	6,635.50	50.53	40.16	74.01	-804.16	6,350.96	5,178.15	5,098.89	79.26	65.329		
7,300.00	6,709.65	7,086.58	6,774.28	51.42	40.41	74.71	-803.30	6,347.66	5,161.55	5,081.19	80.36	64.231		
7,400.00	6,798.26	7,193.35	6,881.00	52.32	40.59	75.26	-802.06	6,344.59	5,144.73	5,063.30	81.43	63.180		
7,500.00	6,886.87	7,237.00	6,924.62	53.22	40.66	75.48	-801.42	6,343.31	5,128.33	5,045.88	82.46	62.195		
7,600.00	6,975.48	7,295.33	6,982.93	54.12	40.76	75.77	-800.50	6,342.14	5,112.89	5,029.40	83.49	61.237		
7,656.30	7,025.36	7,331.00	7,018.60	54.62	40.83	75.95	-799.89	6,341.96	5,104.85	5,020.78	84.08	60.715		
7,700.00	7,064.54	7,386.86	7,074.45	55.00	40.93	76.47	-799.17	6,341.52	5,097.81	5,013.25	84.55	60.291		
7,750.00	7,110.29	7,517.00	7,204.49	55.40	41.17	58.09	-799.50	6,336.82	5,086.39	5,001.28	85.11	59.765		
7,800.00	7,156.67	7,517.00	7,204.49	55.75	41.17	45.04	-799.50	6,336.82	5,072.81	4,987.32	85.49	59.337		
7,850.00	7,203.34	7,557.71	7,245.15	56.05	41.26	30.84	-800.12	6,334.87	5,056.82	4,970.96	85.86	58.893		
7,900.00	7,249.95	7,573.07	7,260.50	56.30	41.29	16.57	-800.39	6,334.32	5,039.08	4,952.93	86.15	58.494		
7,950.00	7,296.14	7,611.00	7,298.41	56.50	41.37	3.50	-801.14	6,333.35	5,019.64	4,933.25	86.40	58.100		
8,000.00	7,341.56	7,611.00	7,298.41	56.64	41.37	-7.88	-801.14	6,333.35	4,998.22	4,911.69	86.54	57.760		
8,050.00	7,385.86	7,611.00	7,298.41	56.74	41.37	-17.56	-801.14	6,333.35	4,975.38	4,888.77	86.61	57.444		
8,100.00	7,428.71	7,639.48	7,326.88	56.79	41.44	-25.93	-801.72	6,333.00	4,951.08	4,864.41	86.68	57.121		
8,150.00	7,469.77	7,657.56	7,344.96	56.80	41.48	-33.28	-802.04	6,332.93	4,925.56	4,838.89	86.67	56.831		
8,200.00	7,508.75	7,674.82	7,362.21	56.77	41.52	-39.90	-802.32	6,332.98	4,898.98	4,812.37	86.61	56.563		
8,250.00	7,545.33	7,705.00	7,392.39	56.70	41.60	-46.09	-802.73	6,333.33	4,871.61	4,785.08	86.52	56.303		
8,300.00	7,579.25	7,705.00	7,392.39	56.59	41.60	-51.66	-802.73	6,333.33	4,843.52	4,757.18	86.34	56.098		
8,350.00	7,610.24	7,705.00	7,392.39	56.45	41.60	-56.87	-802.73	6,333.33	4,815.14	4,729.02	86.11	55.918		
8,400.00	7,638.06	7,736.20	7,423.58	56.28	41.68	-62.10	-803.20	6,333.93	4,786.47	4,700.57	85.90	55.721		
8,450.00	7,662.52	7,748.86	7,436.23	56.09	41.71	-66.87	-803.43	6,334.22	4,757.94	4,672.32	85.62	55.570		
8,500.00	7,683.41	7,759.85	7,447.22	55.88	41.74	-71.32	-803.66	6,334.48	4,729.74	4,644.43	85.31	55.444		
8,550.00	7,700.59	7,769.07	7,456.44	55.64	41.77	-75.43	-803.87	6,334.72	4,702.11	4,617.15	84.96	55.343		
8,600.00	7,713.91	7,776.43	7,463.79	55.39	41.79	-79.18	-804.05	6,334.91	4,675.30	4,590.70	84.60	55.267		
8,650.00	7,723.29	7,799.00	7,486.34	55.14	41.85	-82.78	-804.65	6,335.57	4,649.61	4,565.37	84.24	55.197		
8,700.00	7,728.64	7,799.00	7,486.34	54.87	41.85	-85.68	-804.65	6,335.57	4,625.12	4,541.29	83.83	55.176		
8,740.83	7,730.00	7,799.00	7,486.34	54.65	41.85	-87.76	-804.65	6,335.57	4,606.23	4,522.75	83.48	55.176		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
8,800.00	7,730.00	7,799.00	7,486.34	54.33	41.85	-87.76	-804.65	6,335.57	4,579.96	4,496.97	82.99	55.186		
8,900.00	7,730.00	7,799.00	7,486.34	53.82	41.85	-87.76	-804.65	6,335.57	4,536.97	4,454.78	82.19	55.201		
9,000.00	7,730.00	7,799.00	7,486.34	53.33	41.85	-87.76	-804.65	6,335.57	4,495.79	4,414.36	81.43	55.210		
9,100.00	7,730.00	7,799.00	7,486.34	52.87	41.85	-87.76	-804.65	6,335.57	4,456.47	4,375.75	80.72	55.208		
9,200.00	7,730.00	7,799.00	7,486.34	52.44	41.85	-87.76	-804.65	6,335.57	4,419.07	4,339.00	80.07	55.189		
9,300.00	7,730.00	7,799.00	7,486.34	52.03	41.85	-87.76	-804.65	6,335.57	4,383.63	4,304.14	79.49	55.147		
9,400.00	7,730.00	7,799.00	7,486.34	51.65	41.85	-87.76	-804.65	6,335.57	4,350.20	4,271.21	78.99	55.075		
9,500.00	7,730.00	7,799.00	7,486.34	51.29	41.85	-87.76	-804.65	6,335.57	4,318.82	4,240.25	78.57	54.965		
9,600.00	7,730.00	7,799.00	7,486.34	50.95	41.85	-87.76	-804.65	6,335.57	4,289.55	4,211.29	78.26	54.812		
9,700.00	7,730.00	7,799.00	7,486.34	50.64	41.85	-87.76	-804.65	6,335.57	4,262.43	4,184.37	78.05	54.608		
9,800.00	7,730.00	7,799.00	7,486.34	50.35	41.85	-87.76	-804.65	6,335.57	4,237.49	4,159.52	77.97	54.349		
9,900.00	7,730.00	7,799.00	7,486.34	50.09	41.85	-87.76	-804.65	6,335.57	4,214.78	4,136.77	78.01	54.030		
10,000.00	7,730.00	7,799.00	7,486.34	49.86	41.85	-87.76	-804.65	6,335.57	4,194.32	4,116.14	78.18	53.648		
10,100.00	7,730.00	7,799.00	7,486.34	49.65	41.85	-87.76	-804.65	6,335.57	4,176.17	4,097.68	78.49	53.204		
10,200.00	7,730.00	7,810.42	7,497.75	49.48	41.88	-87.92	-804.99	6,335.92	4,160.31	4,081.37	78.94	52.700		
10,300.00	7,730.00	7,812.39	7,499.73	49.35	41.89	-87.95	-805.05	6,335.98	4,146.83	4,067.29	79.53	52.140		
10,400.00	7,730.00	7,814.40	7,501.73	49.27	41.89	-87.98	-805.11	6,336.05	4,135.71	4,055.45	80.26	51.529		
10,500.00	7,730.00	7,816.43	7,503.76	49.26	41.90	-88.01	-805.17	6,336.11	4,126.99	4,045.87	81.12	50.876		
10,600.00	7,730.00	7,818.49	7,505.81	49.32	41.90	-88.03	-805.23	6,336.18	4,120.67	4,038.57	82.10	50.189		
10,700.00	7,730.00	7,820.57	7,507.90	49.51	41.91	-88.06	-805.30	6,336.25	4,116.78	4,033.57	83.21	49.477		
10,800.00	7,730.00	7,822.69	7,510.01	49.83	41.92	-88.09	-805.36	6,336.32	4,115.31	4,030.89	84.42	48.750		
10,810.59	7,730.00	7,822.92	7,510.24	49.87	41.92	-88.10	-805.37	6,336.33	4,115.29	4,030.74	84.55	48.671 CC		
10,900.00	7,730.00	7,824.84	7,512.16	50.31	41.92	-88.12	-805.43	6,336.39	4,116.26	4,030.54	85.72	48.018 ES		
11,000.00	7,730.00	7,827.01	7,514.33	50.96	41.93	-88.15	-805.50	6,336.46	4,119.65	4,032.53	87.11	47.290		
11,100.00	7,730.00	7,829.22	7,516.54	51.75	41.93	-88.18	-805.57	6,336.54	4,125.45	4,036.87	88.58	46.573		
11,200.00	7,730.00	7,831.46	7,518.77	52.66	41.94	-88.21	-805.64	6,336.61	4,133.66	4,043.56	90.11	45.875		
11,300.00	7,730.00	7,833.73	7,521.04	53.67	41.95	-88.25	-805.71	6,336.69	4,144.27	4,052.59	91.68	45.202		
11,400.00	7,730.00	7,836.04	7,523.34	54.75	41.95	-88.28	-805.79	6,336.77	4,157.26	4,063.96	93.30	44.558		
11,500.00	7,730.00	7,838.38	7,525.68	55.89	41.96	-88.31	-805.86	6,336.85	4,172.60	4,077.66	94.94	43.948		
11,600.00	7,730.00	7,840.75	7,528.05	57.07	41.97	-88.34	-805.94	6,336.93	4,190.27	4,093.67	96.61	43.375		
11,700.00	7,730.00	7,843.16	7,530.46	58.30	41.98	-88.38	-806.02	6,337.02	4,210.24	4,111.96	98.28	42.840		
11,800.00	7,730.00	7,845.60	7,532.90	59.55	41.98	-88.41	-806.10	6,337.10	4,232.48	4,132.53	99.95	42.345		
11,900.00	7,730.00	7,848.09	7,535.38	60.84	41.99	-88.45	-806.18	6,337.19	4,256.95	4,155.33	101.62	41.890		
12,000.00	7,730.00	7,850.61	7,537.90	62.15	42.00	-88.48	-806.27	6,337.28	4,283.61	4,180.33	103.28	41.477		
12,100.00	7,730.00	7,853.16	7,540.45	63.49	42.00	-88.52	-806.36	6,337.38	4,312.43	4,207.51	104.91	41.104		
12,200.00	7,730.00	7,855.76	7,543.05	64.85	42.01	-88.55	-806.45	6,337.47	4,343.35	4,236.82	106.53	40.772		
12,300.00	7,730.00	7,858.40	7,545.68	66.22	42.02	-88.59	-806.54	6,337.57	4,376.34	4,268.23	108.11	40.479		
12,400.00	7,730.00	7,861.08	7,548.36	67.62	42.03	-88.63	-806.63	6,337.67	4,411.35	4,301.68	109.67	40.225		
12,500.00	7,730.00	7,863.80	7,551.08	69.03	42.03	-88.66	-806.73	6,337.77	4,448.33	4,337.14	111.19	40.008		
12,600.00	7,730.00	7,866.57	7,553.84	70.45	42.04	-88.70	-806.83	6,337.88	4,487.23	4,374.56	112.67	39.827		
12,700.00	7,730.00	7,869.38	7,556.65	71.90	42.05	-88.74	-806.93	6,337.98	4,528.00	4,413.89	114.11	39.681		
12,800.00	7,730.00	7,872.24	7,559.50	73.35	42.06	-88.78	-807.03	6,338.09	4,570.60	4,455.09	115.51	39.568		
12,900.00	7,730.00	7,875.14	7,562.40	74.81	42.07	-88.82	-807.13	6,338.20	4,614.97	4,498.10	116.87	39.488		
13,000.00	7,730.00	7,878.09	7,565.35	76.29	42.08	-88.86	-807.24	6,338.32	4,661.05	4,542.87	118.19	39.438		
13,100.00	7,730.00	7,881.09	7,568.34	77.78	42.09	-88.90	-807.35	6,338.44	4,708.81	4,589.36	119.46	39.418		
13,200.00	7,730.00	7,884.14	7,571.39	79.28	42.09	-88.95	-807.47	6,338.56	4,758.19	4,637.51	120.68	39.427		
13,300.00	7,730.00	7,887.25	7,574.49	80.79	42.10	-88.99	-807.58	6,338.68	4,809.14	4,687.27	121.87	39.462		
13,400.00	7,730.00	7,890.40	7,577.64	82.31	42.11	-89.03	-807.70	6,338.81	4,861.61	4,738.60	123.01	39.522		
13,500.00	7,730.00	7,897.82	7,585.04	83.84	42.13	-89.14	-807.98	6,339.11	4,915.56	4,791.45	124.11	39.607		
13,600.00	7,730.00	7,909.13	7,596.33	85.37	42.17	-89.29	-808.41	6,339.54	4,970.92	4,845.75	125.17	39.714		
13,700.00	7,730.00	7,919.99	7,607.19	86.92	42.20	-89.45	-808.81	6,339.93	5,027.65	4,901.46	126.18	39.844		
13,800.00	7,730.00	7,930.45	7,617.63	88.47	42.23	-89.59	-809.18	6,340.29	5,085.71	4,958.55	127.16	39.994		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,900.00	7,730.00	7,940.51	7,627.68	90.03	42.26	-89.73	-809.54	6,340.61	5,145.04	5,016.95	128.10	40.165		
14,000.00	7,730.00	7,950.20	7,637.36	91.59	42.29	-89.87	-809.87	6,340.89	5,205.62	5,076.63	129.00	40.355		
14,100.00	7,730.00	7,959.55	7,646.70	93.16	42.31	-90.00	-810.19	6,341.15	5,267.40	5,137.54	129.86	40.563		
14,200.00	7,730.00	7,968.56	7,655.70	94.74	42.34	-90.12	-810.49	6,341.39	5,330.32	5,199.64	130.68	40.789		
14,300.00	7,730.00	7,977.26	7,664.40	96.33	42.36	-90.24	-810.78	6,341.60	5,394.37	5,262.89	131.47	41.031		
14,400.00	7,730.00	7,985.66	7,672.79	97.92	42.39	-90.36	-811.05	6,341.78	5,459.48	5,327.26	132.23	41.289		
14,500.00	7,730.00	7,993.78	7,680.90	99.51	42.41	-90.47	-811.31	6,341.95	5,525.64	5,392.69	132.95	41.562		
14,600.00	7,730.00	8,001.63	7,688.75	101.11	42.44	-90.58	-811.55	6,342.10	5,592.80	5,459.15	133.64	41.849		
14,700.00	7,730.00	14,700.00	7,654.65	102.72	62.18	-90.11	-810.41	6,341.22	5,660.91	5,506.53	154.38	36.668 SF		
14,800.00	7,730.00	14,800.00	7,658.15	104.33	62.48	-90.16	-810.53	6,341.32	5,729.98	5,574.67	155.32	36.892		
14,900.00	7,730.00	8,003.63	7,690.74	105.94	42.44	-90.61	-811.59	6,342.13	5,799.95	5,664.43	135.52	42.797		
15,000.00	7,730.00	8,006.74	7,693.85	107.56	42.44	-90.65	-811.68	6,342.18	5,870.78	5,734.68	136.09	43.137		
15,100.00	7,730.00	8,009.72	7,696.83	109.18	42.45	-90.69	-811.76	6,342.23	5,942.45	5,805.80	136.64	43.489		
15,200.00	7,730.00	8,012.57	7,699.69	110.81	42.46	-90.73	-811.84	6,342.28	6,014.92	5,877.76	137.17	43.852		
15,300.00	7,730.00	8,015.32	7,702.43	112.44	42.47	-90.77	-811.91	6,342.32	6,088.17	5,950.51	137.66	44.225		
15,400.00	7,730.00	8,017.96	7,705.07	114.08	42.47	-90.81	-811.98	6,342.36	6,162.18	6,024.04	138.14	44.608		
15,500.00	7,730.00	8,020.50	7,707.61	115.72	42.48	-90.84	-812.05	6,342.40	6,236.91	6,098.31	138.60	45.000		
15,600.00	7,730.00	8,022.94	7,710.05	117.36	42.49	-90.88	-812.11	6,342.43	6,312.33	6,173.30	139.03	45.402		
15,700.00	7,730.00	8,025.29	7,712.40	119.00	42.49	-90.91	-812.17	6,342.46	6,388.43	6,248.99	139.45	45.813		
15,800.00	7,730.00	8,027.56	7,714.67	120.65	42.50	-90.94	-812.22	6,342.49	6,465.18	6,325.34	139.84	46.232		
15,900.00	7,730.00	8,029.75	7,716.86	122.30	42.51	-90.97	-812.27	6,342.51	6,542.56	6,402.34	140.22	46.659		
16,000.00	7,730.00	8,031.86	7,718.97	123.96	42.51	-91.00	-812.32	6,342.54	6,620.54	6,479.96	140.58	47.094		
16,100.00	7,730.00	8,033.90	7,721.01	125.61	42.52	-91.03	-812.37	6,342.56	6,699.11	6,558.18	140.93	47.536		
16,200.00	7,730.00	8,035.87	7,722.98	127.27	42.52	-91.06	-812.41	6,342.58	6,778.24	6,636.99	141.26	47.985		
16,300.00	7,730.00	8,037.78	7,724.88	128.94	42.53	-91.08	-812.45	6,342.60	6,857.92	6,716.35	141.57	48.441		
16,400.00	7,730.00	8,039.62	7,726.73	130.60	42.53	-91.11	-812.49	6,342.62	6,938.12	6,796.25	141.87	48.904		
16,500.00	7,730.00	8,041.41	7,728.51	132.27	42.54	-91.13	-812.53	6,342.64	7,018.83	6,876.67	142.16	49.373		
16,600.00	7,730.00	8,043.14	7,730.24	133.94	42.54	-91.16	-812.57	6,342.65	7,100.03	6,957.60	142.43	49.848		
16,700.00	7,730.00	8,044.81	7,731.91	135.61	42.55	-91.18	-812.60	6,342.67	7,181.70	7,039.01	142.70	50.328		
16,800.00	7,730.00	8,046.44	7,733.54	137.28	42.55	-91.20	-812.64	6,342.68	7,263.84	7,120.89	142.95	50.815		
16,900.00	7,730.00	8,048.01	7,735.11	138.96	42.55	-91.23	-812.67	6,342.70	7,346.41	7,203.22	143.19	51.306		
17,000.00	7,730.00	8,049.54	7,736.64	140.64	42.56	-91.25	-812.70	6,342.71	7,429.41	7,285.99	143.42	51.803		
17,100.00	7,730.00	8,051.02	7,738.12	142.32	42.56	-91.27	-812.73	6,342.72	7,512.83	7,369.19	143.64	52.304		
17,200.00	7,730.00	8,052.46	7,739.56	144.00	42.57	-91.29	-812.75	6,342.73	7,596.64	7,452.80	143.85	52.810		
17,300.00	7,730.00	8,053.86	7,740.96	145.69	42.57	-91.31	-812.78	6,342.74	7,680.85	7,536.80	144.05	53.321		
17,400.00	7,730.00	8,055.22	7,742.32	147.37	42.57	-91.33	-812.81	6,342.75	7,765.42	7,621.18	144.24	53.837		
17,500.00	7,730.00	8,056.54	7,743.64	149.06	42.58	-91.34	-812.83	6,342.76	7,850.36	7,705.94	144.43	54.356		
17,600.00	7,730.00	8,057.83	7,744.93	150.75	42.58	-91.36	-812.85	6,342.76	7,935.65	7,791.05	144.60	54.879		
17,700.00	7,730.00	8,059.08	7,746.18	152.44	42.58	-91.38	-812.88	6,342.77	8,021.28	7,876.51	144.77	55.407		
17,800.00	7,730.00	8,060.30	7,747.40	154.13	42.59	-91.40	-812.90	6,342.78	8,107.24	7,962.31	144.93	55.938		
17,900.00	7,730.00	8,061.49	7,748.59	155.83	42.59	-91.41	-812.92	6,342.78	8,193.52	8,048.43	145.09	56.473		
18,000.00	7,730.00	8,062.65	7,749.74	157.52	42.59	-91.43	-812.94	6,342.79	8,280.10	8,134.87	145.24	57.011		
18,100.00	7,730.00	8,063.77	7,750.87	159.22	42.60	-91.44	-812.96	6,342.79	8,366.99	8,221.61	145.38	57.552		
18,200.00	7,730.00	8,064.87	7,751.97	160.92	42.60	-91.46	-812.98	6,342.80	8,454.16	8,308.64	145.52	58.097		
18,300.00	7,730.00	8,065.94	7,753.04	162.62	42.60	-91.47	-812.99	6,342.80	8,541.62	8,395.97	145.65	58.645		
18,400.00	7,730.00	8,066.99	7,754.08	164.32	42.60	-91.49	-813.01	6,342.81	8,629.34	8,483.57	145.78	59.196		
18,426.22	7,730.00	8,067.26	7,754.35	164.76	42.60	-91.49	-813.02	6,342.81	8,652.39	8,506.58	145.81	59.341		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	1,150.30	1,127.63	0.00	5.10	83.38	612.60	5,276.18	5,447.62					
100.00	100.00	1,215.00	1,189.69	0.13	5.49	83.51	599.21	5,263.76	5,425.78	5,420.50	5.28	1,027.823		
200.00	200.00	1,303.40	1,274.50	0.49	6.01	83.69	580.60	5,247.14	5,404.36	5,398.47	5.89	916.966		
300.00	300.00	1,573.85	1,532.32	0.85	7.69	84.30	518.60	5,194.19	5,382.94	5,375.35	7.59	709.049		
400.00	400.00	1,729.50	1,680.08	1.21	8.70	84.63	485.24	5,158.38	5,357.20	5,348.50	8.70	615.765		
500.00	500.00	1,785.11	1,733.00	1.57	9.06	84.74	473.76	5,145.74	5,332.20	5,322.89	9.31	572.860		
600.00	600.00	1,869.00	1,812.87	1.93	9.59	84.91	456.34	5,126.90	5,307.55	5,297.47	10.07	526.938		
700.00	700.00	1,931.89	1,872.91	2.29	9.98	85.04	443.85	5,112.95	5,283.38	5,272.65	10.73	492.390		
800.00	800.00	1,989.97	1,928.64	2.64	10.34	85.14	433.36	5,100.42	5,260.01	5,248.65	11.37	462.751		
900.00	900.00	2,056.00	1,992.03	3.00	10.74	85.27	421.03	5,086.65	5,237.33	5,225.29	12.04	434.873		
1,000.00	1,000.00	2,232.09	2,160.68	3.36	11.82	85.61	387.73	5,048.49	5,213.62	5,200.36	13.26	393.277		
1,100.00	1,100.00	2,337.96	2,262.05	3.72	12.47	85.81	368.33	5,024.93	5,189.73	5,175.60	14.13	367.317		
1,200.00	1,200.00	2,412.04	2,333.06	4.08	12.93	85.95	355.04	5,008.49	5,165.99	5,151.14	14.85	347.897		
1,300.00	1,299.98	2,510.11	2,427.10	4.43	13.53	86.34	337.45	4,986.95	5,141.21	5,125.52	15.69	327.777		
1,400.00	1,399.84	2,574.15	2,488.49	4.79	13.92	86.57	325.69	4,973.01	5,114.04	5,097.67	16.37	312.454		
1,500.00	1,499.45	2,645.60	2,557.02	5.15	14.36	86.81	312.18	4,957.98	5,085.00	5,067.91	17.09	297.573		
1,600.00	1,598.70	2,729.75	2,637.76	5.51	14.87	87.06	296.42	4,940.27	5,053.57	5,035.70	17.87	282.769		
1,700.00	1,697.47	2,777.24	2,683.47	5.89	15.15	87.31	287.96	4,930.54	5,020.37	5,001.89	18.48	271.626		
1,800.00	1,795.62	3,019.19	2,916.26	6.28	16.59	87.57	247.54	4,878.56	4,984.29	4,964.32	19.97	249.548		
1,900.00	1,893.06	3,054.90	2,950.52	6.69	16.81	87.81	241.56	4,870.48	4,944.70	4,924.15	20.55	240.618		
2,000.00	1,989.64	3,111.47	3,004.96	7.13	17.15	88.06	232.25	4,858.26	4,903.85	4,882.62	21.23	230.950		
2,100.00	2,085.27	3,222.49	3,111.68	7.61	17.81	88.31	213.74	4,833.88	4,860.68	4,838.50	22.18	219.169		
2,200.00	2,179.82	3,296.23	3,182.50	8.12	18.26	88.56	201.13	4,817.65	4,815.54	4,792.56	22.98	209.531		
2,300.00	2,273.17	3,373.66	3,244.03	8.67	18.73	88.81	189.71	4,803.72	4,768.78	4,744.94	23.84	200.027		
2,400.00	2,365.21	3,437.62	3,318.16	9.27	19.12	89.06	175.60	4,787.08	4,720.44	4,695.78	24.66	191.413		
2,500.00	2,455.84	3,498.03	3,376.12	9.92	19.49	89.31	164.53	4,774.13	4,670.60	4,645.09	25.51	183.114		
2,580.62	2,527.80	3,540.60	3,416.98	10.49	19.75	89.56	156.66	4,765.17	4,629.56	4,603.37	26.19	176.769		
2,600.00	2,544.97	3,554.00	3,429.85	10.63	19.83	89.69	154.16	4,762.38	4,619.62	4,593.25	26.37	175.162		
2,700.00	2,633.58	3,593.48	3,467.79	11.37	20.07	89.83	146.80	4,754.31	4,568.89	4,541.70	27.19	168.020		
2,800.00	2,722.19	3,647.00	3,519.30	12.13	20.39	89.97	136.81	4,743.74	4,519.14	4,491.04	28.11	160.783		
2,900.00	2,810.80	3,647.00	3,519.30	12.91	20.39	89.97	136.81	4,743.74	4,470.53	4,441.74	28.80	155.236		
3,000.00	2,899.41	3,700.26	3,570.68	13.71	20.69	89.97	126.86	4,733.87	4,422.89	4,393.12	29.76	148.607		
3,100.00	2,988.02	3,741.00	3,610.10	14.52	20.93	89.97	119.26	4,726.92	4,376.65	4,345.96	30.69	142.599		
3,200.00	3,076.63	3,938.39	3,800.66	15.34	22.07	89.97	82.02	4,691.47	4,330.90	4,298.52	32.38	133.739		
3,300.00	3,165.24	4,023.54	3,882.65	16.16	22.57	89.97	66.50	4,674.54	4,283.77	4,250.19	33.57	127.604		
3,400.00	3,253.85	4,079.73	3,936.84	17.00	22.90	89.97	56.61	4,663.41	4,237.25	4,202.61	34.64	122.312		
3,500.00	3,342.46	4,156.72	4,011.24	17.84	23.34	89.97	43.62	4,648.45	4,191.56	4,155.73	35.83	116.998		
3,600.00	3,431.07	4,258.41	4,109.36	18.69	23.94	89.97	26.41	4,628.08	4,146.00	4,108.85	37.14	111.622		
3,700.00	3,519.68	4,363.71	4,210.38	19.55	24.58	89.97	6.32	4,606.17	4,100.70	4,062.18	38.53	106.442		
3,800.00	3,608.29	4,466.16	4,308.38	20.40	25.22	89.97	-13.54	4,583.88	4,055.37	4,015.44	39.93	101.564		
3,900.00	3,696.90	4,567.67	4,405.09	21.26	25.87	89.97	-34.21	4,560.99	4,010.31	3,968.94	41.37	96.944		
4,000.00	3,785.51	4,664.46	4,497.00	22.13	26.50	89.97	-54.48	4,538.37	3,965.47	3,922.65	42.82	92.615		
4,100.00	3,874.12	4,756.79	4,584.66	23.00	27.11	89.97	-73.25	4,516.31	3,921.01	3,876.75	44.26	88.591		
4,200.00	3,962.73	4,808.98	4,634.30	23.87	27.45	89.97	-83.41	4,503.82	3,877.25	3,831.72	45.53	85.157		
4,300.00	4,051.34	4,852.83	4,675.96	24.74	27.74	89.97	-92.46	4,493.54	3,834.79	3,788.00	46.78	81.969		
4,400.00	4,139.95	4,895.37	4,716.36	25.62	28.01	89.97	-101.57	4,483.79	3,793.69	3,745.64	48.05	78.952		
4,500.00	4,228.56	4,938.05	4,756.98	26.49	28.29	89.97	-110.62	4,474.34	3,754.02	3,704.69	49.33	76.093		
4,600.00	4,317.17	5,016.46	4,831.79	27.37	28.79	89.97	-126.90	4,457.41	3,715.63	3,664.82	50.81	73.122		
4,700.00	4,405.78	5,088.43	4,900.50	28.25	29.24	89.97	-141.39	4,441.62	3,677.83	3,625.56	52.27	70.359		
4,800.00	4,494.39	5,141.81	4,951.58	29.13	29.58	89.97	-151.86	4,430.20	3,641.28	3,587.63	53.65	67.871		
4,900.00	4,583.00	5,191.15	4,998.96	30.02	29.87	89.97	-161.10	4,420.05	3,606.11	3,551.11	55.01	65.559		
5,000.00	4,671.61	5,240.00	5,046.14	30.90	30.16	89.97	-169.49	4,410.53	3,572.39	3,516.02	56.36	63.380		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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	4,760.22	5,280.03	5,085.01	31.79	30.37	68.34	-175.75	4,403.28	3,540.23	3,482.57	57.66	61.393		
5,200.00	4,848.83	5,334.00	5,137.72	32.67	30.66	68.89	-183.26	4,394.49	3,509.83	3,450.81	59.03	59.461		
5,300.00	4,937.44	5,362.00	5,165.19	33.56	30.79	69.17	-186.77	4,390.37	3,481.03	3,420.77	60.26	57.763		
5,400.00	5,026.05	5,404.96	5,207.46	34.45	30.98	69.59	-191.80	4,384.59	3,453.98	3,392.42	61.56	56.110		
5,500.00	5,114.66	5,447.34	5,249.29	35.34	31.17	70.00	-196.33	4,379.52	3,428.63	3,365.79	62.84	54.564		
5,600.00	5,203.27	5,488.93	5,290.45	36.23	31.34	70.40	-200.47	4,375.19	3,405.04	3,340.94	64.10	53.121		
5,700.00	5,291.88	5,535.11	5,336.25	37.12	31.53	70.83	-204.71	4,371.13	3,383.22	3,317.85	65.37	51.755		
5,800.00	5,380.50	5,593.63	5,394.42	38.01	31.74	71.37	-209.50	4,366.78	3,362.92	3,296.25	66.67	50.443		
5,900.00	5,469.11	5,651.93	5,452.47	38.90	31.94	71.90	-213.54	4,363.26	3,344.02	3,276.08	67.94	49.218		
6,000.00	5,557.72	5,708.00	5,508.40	39.79	32.12	72.39	-216.53	4,360.80	3,326.54	3,257.34	69.20	48.074		
6,100.00	5,646.33	5,775.90	5,576.23	40.68	32.31	72.96	-219.01	4,358.95	3,310.37	3,239.92	70.45	46.990		
6,200.00	5,734.94	5,843.62	5,643.93	41.58	32.47	73.51	-220.36	4,358.20	3,295.41	3,223.74	71.67	45.979		
6,300.00	5,823.55	5,919.08	5,719.39	42.47	32.64	74.11	-220.92	4,358.37	3,281.56	3,208.67	72.89	45.020		
6,400.00	5,912.16	6,010.87	5,811.17	43.36	32.83	74.84	-221.41	4,358.76	3,268.40	3,194.26	74.14	44.085		
6,500.00	6,000.77	6,102.76	5,903.06	44.26	33.04	75.57	-222.02	4,358.93	3,255.72	3,180.33	75.40	43.182		
6,600.00	6,089.38	6,186.90	5,987.20	45.15	33.23	76.25	-222.69	4,359.07	3,243.71	3,167.07	76.64	42.326		
6,700.00	6,177.99	6,274.01	6,074.31	46.05	33.42	76.96	-223.42	4,359.28	3,232.40	3,154.52	77.88	41.503		
6,800.00	6,266.60	6,362.33	6,162.62	46.94	33.62	77.68	-224.00	4,359.61	3,221.74	3,142.62	79.12	40.718		
6,900.00	6,355.21	6,456.50	6,256.79	47.84	33.83	78.44	-224.42	4,360.02	3,211.65	3,131.28	80.37	39.961		
7,000.00	6,443.82	6,554.13	6,354.42	48.74	34.05	79.24	-224.77	4,360.21	3,202.00	3,120.37	81.63	39.226		
7,100.00	6,532.43	6,639.46	6,439.75	49.63	34.24	79.95	-225.03	4,360.33	3,192.92	3,110.06	82.86	38.536		
7,200.00	6,621.04	6,732.92	6,533.21	50.53	34.45	80.72	-225.21	4,360.51	3,184.46	3,100.37	84.09	37.870		
7,300.00	6,709.65	6,809.12	6,609.41	51.42	34.62	81.35	-225.38	4,360.73	3,176.74	3,091.46	85.28	37.252		
7,400.00	6,798.26	6,890.41	6,690.70	52.32	34.81	82.02	-225.74	4,361.18	3,170.00	3,083.53	86.47	36.659		
7,500.00	6,886.87	6,973.00	6,773.28	53.22	34.99	82.71	-226.12	4,361.83	3,164.07	3,076.41	87.66	36.095		
7,600.00	6,975.48	7,062.98	6,863.26	54.12	35.19	83.45	-226.42	4,362.80	3,158.94	3,070.09	88.86	35.551		
7,656.30	7,025.36	7,119.16	6,919.43	54.62	35.31	83.92	-226.55	4,363.32	3,156.25	3,066.71	89.54	35.250		
7,700.00	7,064.54	7,157.21	6,957.49	55.00	35.40	84.39	-226.64	4,363.64	3,153.12	3,063.08	90.04	35.021		
7,750.00	7,110.29	7,202.63	7,002.90	55.40	35.50	84.86	-226.76	4,364.02	3,146.82	3,056.26	90.56	34.748		
7,800.00	7,156.67	7,248.73	7,049.00	55.75	35.61	85.33	-226.90	4,364.39	3,137.61	3,046.58	91.03	34.467		
7,850.00	7,203.34	7,295.13	7,095.40	56.05	35.71	85.80	-227.06	4,364.77	3,125.53	3,034.08	91.45	34.179		
7,900.00	7,249.95	7,341.39	7,141.66	56.30	35.82	86.27	-227.23	4,365.13	3,110.62	3,018.83	91.80	33.886		
7,950.00	7,296.14	7,387.25	7,187.51	56.50	35.93	86.74	-227.44	4,365.47	3,092.98	3,000.89	92.09	33.588		
8,000.00	7,341.56	7,435.46	7,235.73	56.64	36.04	87.21	-227.67	4,365.80	3,072.69	2,980.36	92.32	33.281		
8,050.00	7,385.86	7,482.83	7,283.09	56.74	36.16	87.68	-227.89	4,366.06	3,049.87	2,957.37	92.50	32.971		
8,100.00	7,428.71	7,528.61	7,328.88	56.79	36.27	88.15	-228.11	4,366.26	3,024.70	2,932.08	92.62	32.658		
8,150.00	7,469.77	7,572.48	7,372.75	56.80	36.37	88.62	-228.31	4,366.40	2,997.38	2,904.71	92.67	32.345		
8,200.00	7,508.75	7,608.44	7,408.70	56.77	36.46	89.09	-228.49	4,366.50	2,968.20	2,875.55	92.65	32.038		
8,250.00	7,545.33	7,641.28	7,441.54	56.70	36.54	89.56	-228.66	4,366.64	2,937.45	2,844.89	92.56	31.736		
8,300.00	7,579.25	7,671.81	7,472.07	56.59	36.62	90.03	-228.84	4,366.81	2,905.41	2,813.00	92.41	31.440		
8,350.00	7,610.24	7,703.47	7,503.73	56.45	36.70	90.50	-229.01	4,367.02	2,872.36	2,780.14	92.21	31.149		
8,400.00	7,638.06	7,732.02	7,532.28	56.28	36.77	90.97	-229.15	4,367.23	2,838.58	2,746.63	91.95	30.869		
8,450.00	7,662.52	7,757.09	7,557.34	56.09	36.83	91.44	-229.24	4,367.42	2,804.43	2,712.79	91.64	30.604		
8,500.00	7,683.41	7,778.44	7,578.70	55.88	36.88	91.91	-229.30	4,367.60	2,770.23	2,678.97	91.26	30.354		
8,550.00	7,700.59	7,795.98	7,596.24	55.64	36.92	92.38	-229.35	4,367.74	2,736.35	2,645.51	90.83	30.125		
8,600.00	7,713.91	7,809.61	7,609.86	55.39	36.95	92.85	-229.39	4,367.86	2,703.12	2,612.77	90.35	29.917		
8,650.00	7,723.29	7,819.23	7,619.48	55.14	36.97	93.32	-229.41	4,367.94	2,670.90	2,581.07	89.82	29.735		
8,700.00	7,728.64	7,824.77	7,625.02	54.87	36.99	93.79	-229.42	4,367.98	2,640.00	2,550.75	89.25	29.580		
8,740.83	7,730.00	7,826.24	7,626.49	54.65	36.99	94.26	-229.43	4,367.99	2,615.98	2,527.23	88.75	29.475		
8,800.00	7,730.00	7,826.38	7,626.63	54.33	36.99	94.73	-229.43	4,368.00	2,582.50	2,494.49	88.01	29.344		
8,900.00	7,730.00	7,826.62	7,626.87	53.82	36.99	95.20	-229.43	4,368.00	2,528.05	2,441.34	86.71	29.155		
9,000.00	7,730.00	7,826.85	7,627.10	53.33	36.99	95.67	-229.43	4,368.00	2,476.44	2,391.07	85.37	29.007		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,827.09	7,627.34	52.87	36.99	-89.45	-229.43	4,368.00	2,427.85	2,343.85	84.01	28.900		
9,200.00	7,730.00	7,827.32	7,627.57	52.44	36.99	-89.45	-229.43	4,368.00	2,382.48	2,299.85	82.63	28.834		
9,300.00	7,730.00	7,827.56	7,627.81	52.03	36.99	-89.46	-229.43	4,368.01	2,340.50	2,259.25	81.25	28.806 SF		
9,400.00	7,730.00	7,827.79	7,628.04	51.65	36.99	-89.47	-229.43	4,368.01	2,302.10	2,222.20	79.90	28.812		
9,500.00	7,730.00	7,828.02	7,628.28	51.29	36.99	-89.47	-229.43	4,368.01	2,267.46	2,188.86	78.60	28.848		
9,600.00	7,730.00	7,828.26	7,628.51	50.95	37.00	-89.48	-229.43	4,368.01	2,236.77	2,159.38	77.38	28.906		
9,700.00	7,730.00	7,828.49	7,628.74	50.64	37.00	-89.49	-229.43	4,368.01	2,210.17	2,133.89	76.27	28.977		
9,800.00	7,730.00	7,828.72	7,628.98	50.35	37.00	-89.49	-229.43	4,368.02	2,187.82	2,112.51	75.31	29.051		
9,900.00	7,730.00	7,828.95	7,629.21	50.09	37.00	-89.50	-229.43	4,368.02	2,169.86	2,095.34	74.52	29.118		
10,000.00	7,730.00	7,829.19	7,629.44	49.86	37.00	-89.50	-229.43	4,368.02	2,156.39	2,082.46	73.93	29.169		
10,100.00	7,730.00	7,829.42	7,629.67	49.65	37.00	-89.51	-229.43	4,368.02	2,147.50	2,073.95	73.55	29.196		
10,200.00	7,730.00	7,829.65	7,629.90	49.48	37.00	-89.52	-229.43	4,368.02	2,143.24	2,069.83	73.41	29.197		
10,241.37	7,730.00	7,829.74	7,630.00	49.42	37.00	-89.52	-229.43	4,368.02	2,142.84	2,069.42	73.42	29.186 CC, ES		
10,300.00	7,730.00	7,829.88	7,630.13	49.35	37.00	-89.52	-229.44	4,368.02	2,143.64	2,070.16	73.49	29.171		
10,400.00	7,730.00	7,830.11	7,630.36	49.27	37.00	-89.53	-229.44	4,368.03	2,148.71	2,074.92	73.78	29.122		
10,500.00	7,730.00	7,830.34	7,630.59	49.26	37.00	-89.53	-229.44	4,368.03	2,158.39	2,084.11	74.28	29.057		
10,600.00	7,730.00	7,830.57	7,630.82	49.32	37.00	-89.54	-229.44	4,368.03	2,172.65	2,097.69	74.96	28.985		
10,700.00	7,730.00	7,830.79	7,631.05	49.51	37.00	-89.55	-229.44	4,368.03	2,191.37	2,115.59	75.78	28.916		
10,800.00	7,730.00	7,831.02	7,631.27	49.83	37.00	-89.55	-229.44	4,368.03	2,214.46	2,137.73	76.73	28.860		
10,900.00	7,730.00	7,831.25	7,631.50	50.31	37.00	-89.56	-229.44	4,368.04	2,241.78	2,164.00	77.78	28.824		
11,000.00	7,730.00	7,831.48	7,631.73	50.96	37.00	-89.56	-229.44	4,368.04	2,273.17	2,194.28	78.89	28.816		
11,100.00	7,730.00	7,831.70	7,631.96	51.75	37.00	-89.57	-229.44	4,368.04	2,308.47	2,228.42	80.04	28.840		
11,200.00	7,730.00	7,831.93	7,632.18	52.66	37.00	-89.58	-229.44	4,368.04	2,347.50	2,266.27	81.23	28.901		
11,300.00	7,730.00	7,832.15	7,632.41	53.67	37.00	-89.58	-229.44	4,368.04	2,390.08	2,307.66	82.42	29.000		
11,400.00	7,730.00	7,832.38	7,632.63	54.75	37.01	-89.59	-229.44	4,368.05	2,436.02	2,352.42	83.60	29.139		
11,500.00	7,730.00	7,832.60	7,632.86	55.89	37.01	-89.60	-229.44	4,368.05	2,485.14	2,400.37	84.77	29.317		
11,600.00	7,730.00	7,832.83	7,633.08	57.07	37.01	-89.60	-229.44	4,368.05	2,537.25	2,451.34	85.91	29.534		
11,700.00	7,730.00	7,833.05	7,633.31	58.30	37.01	-89.61	-229.44	4,368.05	2,592.18	2,505.16	87.02	29.789		
11,800.00	7,730.00	7,833.28	7,633.53	59.55	37.01	-89.61	-229.44	4,368.05	2,649.74	2,561.65	88.09	30.081		
11,900.00	7,730.00	7,833.50	7,633.75	60.84	37.01	-89.62	-229.44	4,368.06	2,709.76	2,620.65	89.12	30.407		
12,000.00	7,730.00	7,833.72	7,633.98	62.15	37.01	-89.63	-229.44	4,368.06	2,772.10	2,682.00	90.11	30.765		
12,100.00	7,730.00	7,833.94	7,634.20	63.49	37.01	-89.63	-229.44	4,368.06	2,836.60	2,745.55	91.05	31.155		
12,200.00	7,730.00	7,834.17	7,634.42	64.85	37.01	-89.64	-229.45	4,368.06	2,903.10	2,811.15	91.95	31.573		
12,300.00	7,730.00	7,834.39	7,634.64	66.22	37.01	-89.64	-229.45	4,368.06	2,971.48	2,878.68	92.80	32.019		
12,400.00	7,730.00	7,834.61	7,634.86	67.62	37.01	-89.65	-229.45	4,368.06	3,041.62	2,948.00	93.62	32.490		
12,500.00	7,730.00	7,834.83	7,635.08	69.03	37.01	-89.65	-229.45	4,368.07	3,113.39	3,019.00	94.39	32.985		
12,600.00	7,730.00	7,835.05	7,635.30	70.45	37.01	-89.66	-229.45	4,368.07	3,186.67	3,091.55	95.12	33.501		
12,700.00	7,730.00	7,835.27	7,635.52	71.90	37.01	-89.67	-229.45	4,368.07	3,261.38	3,165.57	95.81	34.039		
12,800.00	7,730.00	7,835.49	7,635.74	73.35	37.01	-89.67	-229.45	4,368.07	3,337.42	3,240.95	96.47	34.596		
12,900.00	7,730.00	7,835.71	7,635.96	74.81	37.01	-89.68	-229.45	4,368.07	3,414.68	3,317.59	97.09	35.170		
13,000.00	7,730.00	7,835.93	7,636.18	76.29	37.01	-89.68	-229.45	4,368.08	3,493.11	3,395.43	97.68	35.761		
13,100.00	7,730.00	7,836.14	7,636.40	77.78	37.01	-89.69	-229.45	4,368.08	3,572.61	3,474.37	98.23	36.368		
13,200.00	7,730.00	7,836.36	7,636.62	79.28	37.01	-89.70	-229.45	4,368.08	3,653.11	3,554.35	98.76	36.989		
13,300.00	7,730.00	7,836.58	7,636.83	80.79	37.02	-89.70	-229.45	4,368.08	3,734.56	3,635.30	99.26	37.624		
13,400.00	7,730.00	7,836.80	7,637.05	82.31	37.02	-89.71	-229.45	4,368.08	3,816.89	3,717.16	99.73	38.271		
13,500.00	7,730.00	7,837.01	7,637.27	83.84	37.02	-89.71	-229.45	4,368.08	3,900.05	3,799.87	100.18	38.930		
13,600.00	7,730.00	7,837.23	7,637.48	85.37	37.02	-89.72	-229.45	4,368.09	3,983.98	3,883.38	100.61	39.600		
13,700.00	7,730.00	7,837.45	7,637.70	86.92	37.02	-89.72	-229.45	4,368.09	4,068.64	3,967.63	101.01	40.280		
13,800.00	7,730.00	7,837.66	7,637.91	88.47	37.02	-89.73	-229.45	4,368.09	4,153.98	4,052.59	101.39	40.970		
13,900.00	7,730.00	7,837.88	7,638.13	90.03	37.02	-89.74	-229.45	4,368.09	4,239.97	4,138.21	101.75	41.669		
14,000.00	7,730.00	7,838.09	7,638.34	91.59	37.02	-89.74	-229.45	4,368.09	4,326.55	4,224.45	102.10	42.376		
14,100.00	7,730.00	7,838.30	7,638.56	93.16	37.02	-89.75	-229.45	4,368.10	4,413.70	4,311.27	102.43	43.091		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,838.52	7,638.77	94.74	37.02	-89.75	-229.46	4,368.10	4,501.39	4,398.64	102.74	43.813		
14,300.00	7,730.00	7,838.73	7,638.98	96.33	37.02	-89.76	-229.46	4,368.10	4,589.57	4,486.54	103.04	44.542		
14,400.00	7,730.00	7,838.94	7,639.20	97.92	37.02	-89.76	-229.46	4,368.10	4,678.24	4,574.92	103.32	45.278		
14,500.00	7,730.00	7,839.16	7,639.41	99.51	37.02	-89.77	-229.46	4,368.10	4,767.35	4,663.76	103.59	46.020		
14,600.00	7,730.00	7,839.37	7,639.62	101.11	37.02	-89.78	-229.46	4,368.10	4,856.89	4,753.04	103.85	46.767		
14,700.00	7,730.00	7,839.58	7,639.83	102.72	37.02	-89.78	-229.46	4,368.11	4,946.83	4,842.73	104.10	47.520		
14,800.00	7,730.00	7,839.79	7,640.04	104.33	37.02	-89.79	-229.46	4,368.11	5,037.14	4,932.81	104.34	48.278		
14,900.00	7,730.00	7,840.00	7,640.25	105.94	37.02	-89.79	-229.46	4,368.11	5,127.82	5,023.26	104.56	49.040		
15,000.00	7,730.00	7,840.21	7,640.47	107.56	37.02	-89.80	-229.46	4,368.11	5,218.84	5,114.06	104.78	49.808		
15,100.00	7,730.00	7,840.42	7,640.68	109.18	37.02	-89.80	-229.46	4,368.11	5,310.18	5,205.19	104.99	50.579		
15,200.00	7,730.00	7,840.63	7,640.89	110.81	37.02	-89.81	-229.46	4,368.12	5,401.82	5,296.64	105.19	51.354		
15,300.00	7,730.00	7,840.84	7,641.09	112.44	37.03	-89.82	-229.46	4,368.12	5,493.76	5,388.38	105.38	52.133		
15,400.00	7,730.00	7,841.05	7,641.30	114.08	37.03	-89.82	-229.46	4,368.12	5,585.98	5,480.41	105.56	52.915		
15,500.00	7,730.00	7,841.26	7,641.51	115.72	37.03	-89.83	-229.46	4,368.12	5,678.46	5,572.71	105.74	53.701		
15,600.00	7,730.00	7,841.47	7,641.72	117.36	37.03	-89.83	-229.46	4,368.12	5,771.19	5,665.27	105.91	54.490		
15,700.00	7,730.00	7,841.68	7,641.93	119.00	37.03	-89.84	-229.46	4,368.12	5,864.15	5,758.08	106.08	55.282		
15,800.00	7,730.00	7,841.88	7,642.14	120.65	37.03	-89.84	-229.46	4,368.13	5,957.35	5,851.11	106.24	56.076		
15,900.00	7,730.00	7,842.09	7,642.34	122.30	37.03	-89.85	-229.46	4,368.13	6,050.76	5,944.37	106.39	56.874		
16,000.00	7,730.00	7,842.30	7,642.55	123.96	37.03	-89.85	-229.46	4,368.13	6,144.39	6,037.85	106.54	57.673		
16,100.00	7,730.00	7,842.50	7,642.76	125.61	37.03	-89.86	-229.46	4,368.13	6,238.20	6,131.52	106.68	58.475		
16,200.00	7,730.00	7,842.71	7,642.96	127.27	37.03	-89.87	-229.46	4,368.13	6,332.21	6,225.39	106.82	59.279		
16,300.00	7,730.00	7,842.91	7,643.17	128.94	37.03	-89.87	-229.46	4,368.13	6,426.40	6,319.45	106.95	60.085		
16,400.00	7,730.00	7,843.12	7,643.37	130.60	37.03	-89.88	-229.47	4,368.14	6,520.76	6,413.68	107.08	60.894		
16,500.00	7,730.00	7,843.32	7,643.58	132.27	37.03	-89.88	-229.47	4,368.14	6,615.29	6,508.08	107.21	61.704		
16,600.00	7,730.00	7,843.53	7,643.78	133.94	37.03	-89.89	-229.47	4,368.14	6,709.98	6,602.64	107.33	62.515		
16,700.00	7,730.00	7,843.73	7,643.99	135.61	37.03	-89.89	-229.47	4,368.14	6,804.82	6,697.36	107.45	63.328		
16,800.00	7,730.00	7,843.94	7,644.19	137.28	37.03	-89.90	-229.47	4,368.14	6,899.80	6,792.23	107.57	64.143		
16,900.00	7,730.00	7,844.14	7,644.39	138.96	37.03	-89.90	-229.47	4,368.14	6,994.92	6,887.24	107.68	64.959		
17,000.00	7,730.00	7,844.34	7,644.60	140.64	37.03	-89.91	-229.47	4,368.15	7,090.18	6,982.39	107.79	65.777		
17,100.00	7,730.00	7,844.55	7,644.80	142.32	37.03	-89.91	-229.47	4,368.15	7,185.57	7,077.67	107.90	66.596		
17,200.00	7,730.00	7,844.75	7,645.00	144.00	37.03	-89.92	-229.47	4,368.15	7,281.08	7,173.08	108.00	67.416		
17,300.00	7,730.00	7,844.95	7,645.20	145.69	37.03	-89.93	-229.47	4,368.15	7,376.71	7,268.60	108.10	68.237		
17,400.00	7,730.00	7,845.15	7,645.40	147.37	37.04	-89.93	-229.47	4,368.15	7,472.45	7,364.25	108.20	69.059		
17,500.00	7,730.00	7,845.35	7,645.60	149.06	37.04	-89.94	-229.47	4,368.15	7,568.31	7,460.01	108.30	69.882		
17,600.00	7,730.00	7,845.55	7,645.81	150.75	37.04	-89.94	-229.47	4,368.16	7,664.27	7,555.87	108.40	70.706		
17,700.00	7,730.00	7,845.75	7,646.01	152.44	37.04	-89.95	-229.47	4,368.16	7,760.33	7,651.84	108.49	71.531		
17,800.00	7,730.00	7,845.95	7,646.21	154.13	37.04	-89.95	-229.47	4,368.16	7,856.49	7,747.91	108.58	72.356		
17,900.00	7,730.00	7,846.15	7,646.41	155.83	37.04	-89.96	-229.47	4,368.16	7,952.75	7,844.08	108.67	73.183		
18,000.00	7,730.00	7,846.35	7,646.60	157.52	37.04	-89.96	-229.47	4,368.16	8,049.09	7,940.33	108.76	74.010		
18,100.00	7,730.00	7,846.55	7,646.80	159.22	37.04	-89.97	-229.47	4,368.17	8,145.53	8,036.68	108.84	74.837		
18,200.00	7,730.00	7,846.75	7,647.00	160.92	37.04	-89.97	-229.47	4,368.17	8,242.05	8,133.12	108.93	75.665		
18,300.00	7,730.00	7,846.95	7,647.20	162.62	37.04	-89.98	-229.47	4,368.17	8,338.65	8,229.64	109.01	76.494		
18,400.00	7,730.00	7,847.15	7,647.40	164.32	37.04	-89.98	-229.47	4,368.17	8,435.33	8,326.24	109.09	77.323		
18,426.22	7,730.00	7,847.20	7,647.45	164.76	37.04	-89.99	-229.47	4,368.17	8,460.69	8,351.58	109.11	77.540		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.59	-2,069.43	2,174.12	3,001.92					
100.00	100.00	70.63	70.63	0.13	0.11	133.59	-2,069.32	2,173.93	3,001.40	3,001.15	0.25	N/A		
200.00	200.00	184.09	184.08	0.49	0.42	133.59	-2,068.76	2,173.02	3,000.46	2,999.55	0.91	3,284.990		
300.00	300.00	299.31	299.29	0.85	0.83	133.59	-2,067.78	2,172.00	2,999.24	2,997.55	1.68	1,780.213		
400.00	400.00	394.81	394.78	1.21	1.18	133.59	-2,066.78	2,170.99	2,997.76	2,995.37	2.39	1,256.807		
500.00	500.00	484.62	484.58	1.57	1.50	133.58	-2,065.68	2,170.52	2,996.53	2,993.47	3.06	978.414		
600.00	600.00	645.48	645.40	1.93	2.07	133.56	-2,062.28	2,168.87	2,994.25	2,990.26	4.00	749.355		
700.00	700.00	765.73	765.57	2.29	2.51	133.54	-2,058.66	2,166.57	2,990.79	2,986.00	4.78	625.037		
800.00	800.00	856.04	855.82	2.64	2.83	133.51	-2,055.55	2,165.06	2,987.20	2,981.73	5.47	546.394		
900.00	900.00	1,736.70	1,721.52	3.00	6.50	133.14	-1,945.52	2,076.02	2,974.76	2,965.87	8.89	334.534		
1,000.00	1,000.00	2,015.60	1,985.36	3.36	8.09	132.96	-1,877.81	2,016.40	2,942.41	2,932.19	10.22	287.921		
1,100.00	1,100.00	2,167.49	2,126.90	3.72	9.06	132.84	-1,836.24	1,980.26	2,906.28	2,895.16	11.12	261.350		
1,200.00	1,200.00	2,224.52	2,180.04	4.08	9.44	132.80	-1,820.78	1,966.45	2,870.01	2,858.30	11.71	245.068		
1,300.00	1,299.98	2,301.45	2,251.95	4.43	9.94	86.42	-1,800.53	1,948.10	2,834.48	2,822.11	12.37	229.161		
1,400.00	1,399.84	2,387.84	2,332.81	4.79	10.51	87.23	-1,778.43	1,927.22	2,799.03	2,785.97	13.06	214.334		
1,500.00	1,499.45	2,474.22	2,413.72	5.15	11.08	88.10	-1,755.83	1,907.09	2,763.67	2,749.91	13.76	200.917		
1,600.00	1,598.70	2,575.05	2,508.18	5.51	11.76	89.07	-1,729.03	1,884.20	2,728.37	2,713.86	14.51	188.082		
1,700.00	1,697.47	2,679.25	2,605.58	5.89	12.46	90.15	-1,701.33	1,859.62	2,692.40	2,677.12	15.28	176.224		
1,800.00	1,795.62	2,761.62	2,682.60	6.28	13.03	91.25	-1,679.47	1,840.23	2,656.60	2,640.61	16.00	166.066		
1,900.00	1,893.06	2,865.44	2,779.75	6.69	13.74	92.51	-1,651.58	1,816.53	2,621.30	2,604.50	16.80	156.008		
2,000.00	1,989.64	3,020.01	2,923.43	7.13	14.83	94.22	-1,608.93	1,778.75	2,584.68	2,566.90	17.78	145.385		
2,100.00	2,085.27	3,107.50	3,004.41	7.61	15.47	95.64	-1,584.10	1,756.82	2,547.58	2,528.99	18.59	137.043		
2,200.00	2,179.82	3,168.73	3,061.20	8.12	15.91	96.91	-1,567.18	1,741.42	2,511.54	2,492.18	19.36	129.697		
2,300.00	2,273.17	3,252.32	3,138.93	8.67	16.52	98.42	-1,544.57	1,720.60	2,476.94	2,456.70	20.24	122.357		
2,400.00	2,365.21	3,346.63	3,226.54	9.27	17.20	100.08	-1,518.47	1,697.41	2,443.16	2,421.96	21.20	115.259		
2,500.00	2,455.84	3,449.05	3,321.50	9.92	17.95	101.93	-1,490.05	1,671.62	2,410.23	2,388.01	22.22	108.469		
2,580.62	2,527.80	3,546.87	3,411.81	10.49	18.68	103.67	-1,462.13	1,646.47	2,384.08	2,360.96	23.12	103.128		
2,600.00	2,544.97	3,571.43	3,434.40	10.63	18.87	103.98	-1,454.92	1,640.07	2,377.79	2,354.45	23.34	101.881		
2,700.00	2,633.58	3,630.34	3,488.66	11.37	19.31	104.74	-1,437.66	1,624.97	2,346.18	2,321.83	24.36	96.316		
2,800.00	2,722.19	3,687.86	3,541.87	12.13	19.74	105.48	-1,421.07	1,610.72	2,316.36	2,290.96	25.41	91.170		
2,900.00	2,810.80	3,742.55	3,592.69	12.91	20.14	106.19	-1,405.83	1,597.48	2,288.52	2,262.04	26.48	86.439		
3,000.00	2,899.41	3,823.21	3,667.91	13.71	20.72	107.26	-1,383.85	1,578.35	2,262.42	2,234.80	27.62	81.915		
3,100.00	2,988.02	3,935.96	3,772.76	14.52	21.54	108.79	-1,352.56	1,551.17	2,236.85	2,208.01	28.84	77.553		
3,200.00	3,076.63	4,019.36	3,850.02	15.34	22.16	109.95	-1,329.21	1,530.14	2,211.66	2,181.63	30.03	73.644		
3,300.00	3,165.24	4,092.66	3,918.02	16.16	22.70	110.98	-1,308.47	1,512.31	2,187.83	2,156.61	31.22	70.081		
3,400.00	3,253.85	4,165.15	3,985.43	17.00	23.23	112.00	-1,288.04	1,495.21	2,165.61	2,133.19	32.42	66.804		
3,500.00	3,342.46	4,242.81	4,057.76	17.84	23.80	113.11	-1,266.56	1,476.80	2,144.94	2,111.30	33.64	63.765		
3,600.00	3,431.07	4,343.70	4,151.59	18.69	24.54	114.57	-1,238.24	1,452.87	2,125.19	2,090.28	34.91	60.883		
3,700.00	3,519.68	4,433.35	4,234.77	19.55	25.20	115.89	-1,212.80	1,431.19	2,106.28	2,070.11	36.17	58.234		
3,800.00	3,608.29	4,500.75	4,297.38	20.40	25.70	116.90	-1,193.88	1,414.89	2,088.93	2,051.52	37.41	55.833		
3,900.00	3,696.90	4,561.40	4,353.88	21.26	26.13	117.81	-1,177.20	1,400.49	2,073.60	2,034.94	38.65	53.644		
4,000.00	3,785.51	4,609.00	4,398.48	22.13	26.48	118.53	-1,164.55	1,389.43	2,060.68	2,020.80	39.88	51.676		
4,100.00	3,874.12	4,670.73	4,456.48	23.00	26.90	119.46	-1,148.82	1,375.58	2,050.28	2,009.16	41.11	49.867		
4,200.00	3,962.73	4,723.62	4,506.54	23.87	27.25	120.26	-1,136.03	1,364.27	2,042.60	2,000.27	42.33	48.255		
4,300.00	4,051.34	4,777.46	4,557.77	24.74	27.60	121.06	-1,123.67	1,353.26	2,037.59	1,994.06	43.53	46.809		
4,400.00	4,139.95	4,826.70	4,604.87	25.62	27.90	121.79	-1,112.99	1,343.66	2,035.30	1,990.60	44.70	45.532		
4,427.94	4,164.71	4,839.68	4,617.33	25.86	27.97	121.98	-1,110.30	1,341.23	2,035.18	1,990.16	45.02	45.205		
4,500.00	4,228.56	4,873.30	4,649.71	26.49	28.17	122.47	-1,103.61	1,335.13	2,035.95	1,990.11	45.84	44.415		
4,600.00	4,317.17	4,930.94	4,705.48	27.37	28.50	123.31	-1,092.88	1,325.28	2,039.41	1,992.43	46.98	43.412		
4,700.00	4,405.78	4,987.00	4,759.89	28.25	28.80	124.10	-1,082.85	1,316.26	2,045.10	1,997.01	48.09	42.529		
4,800.00	4,494.39	5,050.29	4,821.54	29.13	29.13	124.98	-1,072.21	1,306.69	2,053.11	2,003.92	49.19	41.741		
4,900.00	4,583.00	5,108.70	4,878.66	30.02	29.42	125.79	-1,063.25	1,298.42	2,063.62	2,013.38	50.24	41.074		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	5,176.00	4,944.67	30.90	29.74	126.69	-1,053.68	1,289.47	2,076.33	2,025.03	51.30	40.475		
5,100.00	4,760.22	5,220.58	4,988.56	31.79	29.93	127.27	-1,047.92	1,284.20	2,091.39	2,039.16	52.23	40.043		
5,200.00	4,848.83	5,270.00	5,037.43	32.67	30.14	127.89	-1,042.32	1,279.40	2,109.08	2,055.93	53.14	39.689		
5,300.00	4,937.44	5,326.72	5,093.69	33.56	30.35	128.57	-1,036.75	1,274.89	2,129.11	2,075.08	54.03	39.406		
5,400.00	5,026.05	5,385.25	5,151.88	34.45	30.56	129.24	-1,031.79	1,271.01	2,151.25	2,096.35	54.89	39.189		
5,500.00	5,114.66	5,445.96	5,212.35	35.34	30.76	129.91	-1,027.43	1,267.88	2,175.31	2,119.58	55.73	39.033		
5,600.00	5,203.27	5,509.34	5,275.58	36.23	30.94	130.58	-1,023.64	1,265.63	2,201.16	2,144.62	56.54	38.930		
5,700.00	5,291.88	5,570.27	5,336.42	37.12	31.11	131.18	-1,020.68	1,264.46	2,228.65	2,171.33	57.31	38.886		
5,800.00	5,380.50	5,623.64	5,389.76	38.01	31.25	131.69	-1,018.91	1,263.86	2,258.02	2,200.00	58.01	38.923		
5,900.00	5,469.11	5,683.19	5,449.30	38.90	31.39	132.25	-1,017.85	1,263.42	2,289.24	2,230.52	58.72	38.989		
6,000.00	5,557.72	5,750.29	5,516.40	39.79	31.55	132.86	-1,017.39	1,262.98	2,321.91	2,262.48	59.44	39.066		
6,100.00	5,646.33	5,842.07	5,608.18	40.68	31.75	133.67	-1,017.10	1,262.77	2,355.36	2,295.09	60.28	39.077		
6,200.00	5,734.94	5,946.28	5,712.38	41.58	31.99	134.57	-1,016.34	1,262.35	2,388.88	2,327.71	61.17	39.051		
6,300.00	5,823.55	6,029.20	5,795.29	42.47	32.19	135.28	-1,015.59	1,261.69	2,422.70	2,360.75	61.95	39.107		
6,400.00	5,912.16	6,120.37	5,886.46	43.36	32.41	136.04	-1,014.75	1,260.84	2,456.93	2,394.16	62.76	39.147		
6,500.00	6,000.77	6,202.94	5,969.02	44.26	32.61	136.71	-1,014.03	1,259.95	2,491.61	2,428.09	63.52	39.228		
6,600.00	6,089.38	6,290.60	6,056.67	45.15	32.82	137.42	-1,013.38	1,258.91	2,526.80	2,462.51	64.29	39.304		
6,700.00	6,177.99	6,382.56	6,148.62	46.05	33.05	138.13	-1,012.66	1,257.86	2,562.32	2,497.24	65.08	39.373		
6,800.00	6,266.60	6,468.92	6,234.97	46.94	33.26	138.78	-1,011.94	1,256.99	2,598.12	2,532.29	65.83	39.469		
6,900.00	6,355.21	6,553.23	6,319.28	47.84	33.47	139.40	-1,011.40	1,256.37	2,634.39	2,567.83	66.56	39.581		
7,000.00	6,443.82	6,642.80	6,408.85	48.74	33.69	140.03	-1,011.02	1,256.18	2,671.07	2,603.77	67.30	39.687		
7,100.00	6,532.43	6,732.67	6,498.71	49.63	33.90	140.63	-1,010.64	1,256.65	2,707.92	2,639.88	68.04	39.797		
7,200.00	6,621.04	6,825.49	6,591.54	50.53	34.13	141.25	-1,010.15	1,256.55	2,745.08	2,676.28	68.80	39.901		
7,300.00	6,709.65	6,915.25	6,681.29	51.42	34.35	141.84	-1,009.38	1,256.24	2,782.24	2,712.71	69.53	40.013		
7,400.00	6,798.26	6,997.28	6,763.32	52.32	34.56	142.36	-1,008.90	1,255.86	2,819.93	2,749.71	70.22	40.159		
7,500.00	6,886.87	7,093.28	6,859.32	53.22	34.80	142.96	-1,008.30	1,255.62	2,857.79	2,786.81	70.98	40.262		
7,600.00	6,975.48	7,188.73	6,954.77	54.12	35.04	143.53	-1,007.57	1,255.87	2,895.67	2,823.94	71.73	40.368		
7,656.30	7,025.36	7,242.14	7,008.17	54.62	35.18	143.84	-1,007.08	1,256.04	2,917.01	2,844.87	72.15	40.430		
7,700.00	7,064.54	7,281.06	7,047.09	55.00	35.28	136.53	-1,006.69	1,256.11	2,932.10	2,859.64	72.46	40.465		
7,750.00	7,110.29	7,324.96	7,090.99	55.40	35.39	126.42	-1,006.23	1,256.04	2,945.67	2,872.86	72.81	40.457		
7,800.00	7,156.67	7,376.50	7,142.53	55.75	35.53	114.62	-1,005.63	1,255.75	2,955.21	2,882.01	73.20	40.371		
7,850.00	7,203.34	7,435.97	7,201.98	56.05	35.69	101.95	-1,004.67	1,255.20	2,960.49	2,886.86	73.63	40.207		
7,900.00	7,249.95	7,484.46	7,250.46	56.30	35.83	89.57	-1,003.70	1,254.57	2,961.53	2,887.54	73.99	40.026		
7,950.00	7,296.14	7,530.83	7,296.81	56.50	35.96	78.74	-1,002.70	1,253.79	2,958.48	2,884.15	74.32	39.806		
8,000.00	7,341.56	7,570.04	7,336.01	56.64	36.07	69.95	-1,001.88	1,253.09	2,951.40	2,876.81	74.60	39.565		
8,050.00	7,385.86	7,607.48	7,373.43	56.74	36.18	63.20	-1,001.22	1,252.59	2,940.45	2,865.60	74.85	39.285		
8,100.00	7,428.71	7,643.46	7,409.42	56.79	36.27	58.20	-1,000.73	1,252.29	2,925.70	2,850.63	75.08	38.970		
8,150.00	7,469.77	7,677.71	7,443.66	56.80	36.36	54.62	-1,000.47	1,252.41	2,907.28	2,832.01	75.28	38.621		
8,200.00	7,508.75	7,710.80	7,476.75	56.77	36.44	52.19	-1,000.44	1,252.97	2,885.33	2,809.86	75.46	38.234		
8,250.00	7,545.33	7,742.16	7,508.09	56.70	36.52	50.74	-1,000.57	1,253.82	2,859.98	2,784.35	75.63	37.814		
8,300.00	7,579.25	7,771.03	7,536.95	56.59	36.58	50.14	-1,000.71	1,254.45	2,831.44	2,755.66	75.78	37.365		
8,350.00	7,610.24	7,797.30	7,563.22	56.45	36.64	50.34	-1,000.83	1,254.86	2,799.92	2,724.01	75.91	36.887		
8,400.00	7,638.06	7,819.00	7,584.92	56.28	36.69	51.31	-1,000.93	1,255.08	2,765.64	2,689.63	76.00	36.388		
8,450.00	7,662.52	7,839.61	7,605.53	56.09	36.74	53.14	-1,001.03	1,255.21	2,728.86	2,652.76	76.10	35.859		
8,500.00	7,683.41	7,855.88	7,621.80	55.88	36.78	55.88	-1,001.13	1,255.26	2,689.85	2,613.68	76.18	35.311		
8,550.00	7,700.59	7,869.34	7,635.26	55.64	36.81	59.73	-1,001.22	1,255.27	2,648.89	2,572.65	76.24	34.744		
8,600.00	7,713.91	7,879.89	7,645.81	55.39	36.84	64.91	-1,001.30	1,255.27	2,606.24	2,529.94	76.30	34.158		
8,650.00	7,723.29	7,887.43	7,653.35	55.14	36.86	71.66	-1,001.37	1,255.25	2,562.22	2,485.87	76.35	33.558		
8,700.00	7,728.64	7,891.90	7,657.82	54.87	36.87	80.23	-1,001.41	1,255.24	2,517.13	2,440.73	76.40	32.946		
8,740.83	7,730.00	7,893.23	7,659.15	54.65	36.87	88.59	-1,001.42	1,255.23	2,479.73	2,403.29	76.44	32.439		
8,800.00	7,730.00	7,893.65	7,659.57	54.33	36.87	88.61	-1,001.42	1,255.23	2,425.36	2,348.86	76.50	31.704		
8,900.00	7,730.00	7,894.35	7,660.27	53.82	36.87	88.65	-1,001.43	1,255.23	2,334.00	2,257.40	76.61	30.468		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,895.06	7,660.98	53.33	36.88	88.70	-1,001.43	1,255.23	2,243.39	2,166.66	76.72	29.241		
9,100.00	7,730.00	7,895.78	7,661.70	52.87	36.88	88.74	-1,001.44	1,255.22	2,153.60	2,076.75	76.85	28.024		
9,200.00	7,730.00	7,896.50	7,662.42	52.44	36.88	88.78	-1,001.45	1,255.22	2,064.75	1,987.76	76.99	26.818		
9,300.00	7,730.00	7,897.23	7,663.15	52.03	36.88	88.82	-1,001.45	1,255.22	1,976.97	1,899.82	77.15	25.626		
9,400.00	7,730.00	7,897.97	7,663.89	51.65	36.88	88.87	-1,001.46	1,255.21	1,890.39	1,813.08	77.32	24.449		
9,500.00	7,730.00	7,898.72	7,664.64	51.29	36.88	88.91	-1,001.47	1,255.21	1,805.21	1,727.70	77.51	23.290		
9,600.00	7,730.00	7,899.47	7,665.39	50.95	36.89	88.96	-1,001.47	1,255.21	1,721.62	1,643.90	77.72	22.152		
9,700.00	7,730.00	7,900.23	7,666.15	50.64	36.89	89.00	-1,001.48	1,255.20	1,639.87	1,561.92	77.95	21.037		
9,800.00	7,730.00	7,901.00	7,666.92	50.35	36.89	89.05	-1,001.49	1,255.20	1,560.25	1,482.05	78.20	19.951		
9,900.00	7,730.00	7,901.78	7,667.70	50.09	36.89	89.09	-1,001.50	1,255.20	1,483.10	1,404.62	78.48	18.898		
10,000.00	7,730.00	7,902.57	7,668.48	49.86	36.89	89.14	-1,001.50	1,255.19	1,408.82	1,330.04	78.78	17.883		
10,100.00	7,730.00	7,903.36	7,669.28	49.65	36.90	89.19	-1,001.51	1,255.19	1,337.89	1,258.80	79.10	16.915		
10,200.00	7,730.00	7,904.16	7,670.08	49.48	36.90	89.23	-1,001.52	1,255.18	1,270.88	1,191.46	79.43	16.000		
10,300.00	7,730.00	7,904.97	7,670.89	49.35	36.90	89.28	-1,001.53	1,255.18	1,208.44	1,128.68	79.77	15.150		
10,400.00	7,730.00	7,905.79	7,671.71	49.27	36.90	89.33	-1,001.53	1,255.18	1,151.31	1,071.22	80.09	14.375		
10,500.00	7,730.00	7,906.62	7,672.54	49.26	36.90	89.38	-1,001.54	1,255.17	1,100.32	1,019.93	80.39	13.688		
10,600.00	7,730.00	7,907.46	7,673.38	49.32	36.91	89.43	-1,001.55	1,255.17	1,056.36	975.73	80.62	13.102		
10,700.00	7,730.00	7,908.31	7,674.22	49.51	36.91	89.48	-1,001.56	1,255.16	1,020.33	939.56	80.77	12.633		
10,800.00	7,730.00	7,909.16	7,675.08	49.83	36.91	89.53	-1,001.57	1,255.16	993.10	912.31	80.79	12.292		
10,900.00	7,730.00	7,910.03	7,675.94	50.31	36.91	89.58	-1,001.58	1,255.15	975.41	894.75	80.66	12.093		
11,000.00	7,730.00	7,910.90	7,676.82	50.96	36.91	89.63	-1,001.59	1,255.15	967.78	887.41	80.37	12.042 SF		
11,024.13	7,730.00	7,911.11	7,677.03	51.13	36.91	89.65	-1,001.59	1,255.15	967.48	887.20	80.28	12.051 CC, ES		
11,100.00	7,730.00	7,911.79	7,677.70	51.75	36.92	89.69	-1,001.59	1,255.14	970.45	890.52	79.93	12.142		
11,200.00	7,730.00	7,912.68	7,678.60	52.66	36.92	89.74	-1,001.60	1,255.14	983.33	903.97	79.37	12.390		
11,300.00	7,730.00	7,913.59	7,679.50	53.67	36.92	89.79	-1,001.61	1,255.13	1,006.04	927.31	78.73	12.779		
11,400.00	7,730.00	7,914.53	7,680.45	54.75	36.92	89.85	-1,001.62	1,255.12	1,037.92	959.86	78.07	13.295		
11,500.00	7,730.00	7,915.53	7,681.45	55.89	36.93	89.91	-1,001.63	1,255.12	1,078.17	1,000.75	77.42	13.926		
11,600.00	7,730.00	7,916.54	7,682.46	57.07	36.93	89.97	-1,001.64	1,255.11	1,125.88	1,049.06	76.83	14.655		
11,700.00	7,730.00	7,917.57	7,683.49	58.30	36.93	90.03	-1,001.65	1,255.10	1,180.16	1,103.86	76.30	15.468		
11,800.00	7,730.00	7,918.62	7,684.54	59.55	36.93	90.09	-1,001.67	1,255.10	1,240.14	1,164.30	75.84	16.352		
11,900.00	7,730.00	7,919.69	7,685.61	60.84	36.94	90.15	-1,001.68	1,255.09	1,305.03	1,229.57	75.46	17.295		
12,000.00	7,730.00	7,920.78	7,686.70	62.15	36.94	90.22	-1,001.69	1,255.08	1,374.14	1,299.00	75.14	18.288		
12,100.00	7,730.00	7,921.90	7,687.81	63.49	36.94	90.29	-1,001.70	1,255.07	1,446.86	1,371.98	74.88	19.322		
12,200.00	7,730.00	7,923.03	7,688.95	64.85	36.94	90.35	-1,001.71	1,255.06	1,522.68	1,448.01	74.67	20.392		
12,300.00	7,730.00	7,924.19	7,690.11	66.22	36.95	90.42	-1,001.73	1,255.05	1,601.16	1,526.65	74.50	21.491		
12,400.00	7,730.00	7,925.37	7,691.29	67.62	36.95	90.49	-1,001.74	1,255.05	1,681.92	1,607.55	74.37	22.615		
12,500.00	7,730.00	7,926.58	7,692.49	69.03	36.95	90.56	-1,001.75	1,255.04	1,764.65	1,690.38	74.27	23.761		
12,600.00	7,730.00	7,927.81	7,693.72	70.45	36.95	90.63	-1,001.77	1,255.03	1,849.09	1,774.90	74.19	24.925		
12,700.00	7,730.00	7,929.06	7,694.98	71.90	36.96	90.71	-1,001.78	1,255.02	1,935.01	1,860.89	74.12	26.105		
12,800.00	7,730.00	7,930.35	7,696.26	73.35	36.96	90.79	-1,001.80	1,255.01	2,022.23	1,948.15	74.08	27.299		
12,900.00	7,730.00	7,931.65	7,697.57	74.81	36.96	90.86	-1,001.81	1,255.00	2,110.58	2,036.53	74.05	28.504		
13,000.00	7,730.00	7,932.99	7,698.91	76.29	36.97	90.94	-1,001.83	1,254.98	2,199.92	2,125.90	74.02	29.720		
13,100.00	7,730.00	7,934.36	7,700.28	77.78	36.97	91.02	-1,001.85	1,254.97	2,290.15	2,216.14	74.01	30.944		
13,200.00	7,730.00	7,935.76	7,701.67	79.28	36.97	91.11	-1,001.86	1,254.96	2,381.16	2,307.15	74.00	32.177		
13,300.00	7,730.00	7,937.18	7,703.10	80.79	36.98	91.19	-1,001.88	1,254.95	2,472.86	2,398.86	74.00	33.416		
13,400.00	7,730.00	7,938.64	7,704.56	82.31	36.98	91.28	-1,001.90	1,254.94	2,565.18	2,491.17	74.01	34.661		
13,500.00	7,730.00	7,940.14	7,706.05	83.84	36.98	91.36	-1,001.92	1,254.92	2,658.05	2,584.04	74.02	35.912		
13,600.00	7,730.00	7,941.66	7,707.58	85.37	36.99	91.46	-1,001.94	1,254.91	2,751.43	2,677.40	74.03	37.167		
13,700.00	7,730.00	7,943.23	7,709.14	86.92	36.99	91.55	-1,001.96	1,254.89	2,845.25	2,771.21	74.05	38.425		
13,800.00	7,730.00	7,944.83	7,710.74	88.47	37.00	91.64	-1,001.98	1,254.88	2,939.48	2,865.42	74.06	39.688		
13,900.00	7,730.00	7,946.47	7,712.38	90.03	37.00	91.74	-1,002.00	1,254.86	3,034.08	2,960.00	74.09	40.953		
14,000.00	7,730.00	7,948.14	7,714.06	91.59	37.00	91.84	-1,002.02	1,254.85	3,129.02	3,054.91	74.11	42.221		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,949.86	7,715.78	93.16	37.01	91.94	-1,002.05	1,254.83	3,224.26	3,150.12	74.13	43.492		
14,200.00	7,730.00	7,951.62	7,717.54	94.74	37.01	92.04	-1,002.07	1,254.81	3,319.77	3,245.61	74.16	44.764		
14,300.00	7,730.00	7,953.43	7,719.34	96.33	37.02	92.15	-1,002.10	1,254.80	3,415.55	3,341.36	74.19	46.038		
14,400.00	7,730.00	7,955.28	7,721.19	97.92	37.02	92.26	-1,002.12	1,254.78	3,511.56	3,437.34	74.22	47.313		
14,500.00	7,730.00	7,957.17	7,723.09	99.51	37.03	92.37	-1,002.15	1,254.76	3,607.79	3,533.54	74.25	48.590		
14,600.00	7,730.00	7,959.12	7,725.03	101.11	37.03	92.49	-1,002.18	1,254.74	3,704.21	3,629.93	74.28	49.867		
14,700.00	7,730.00	7,961.12	7,727.03	102.72	37.04	92.60	-1,002.21	1,254.72	3,800.82	3,726.51	74.31	51.146		
14,800.00	7,730.00	7,963.17	7,729.08	104.33	37.04	92.73	-1,002.24	1,254.69	3,897.60	3,823.25	74.35	52.424		
14,900.00	7,730.00	7,965.28	7,731.19	105.94	37.05	92.85	-1,002.27	1,254.67	3,994.54	3,920.15	74.38	53.703		
15,000.00	7,730.00	7,967.44	7,733.35	107.56	37.05	92.98	-1,002.30	1,254.64	4,091.62	4,017.20	74.42	54.983		
15,100.00	7,730.00	7,969.67	7,735.58	109.18	37.06	93.11	-1,002.34	1,254.62	4,188.84	4,114.39	74.45	56.262		
15,200.00	7,730.00	7,971.96	7,737.87	110.81	37.06	93.24	-1,002.37	1,254.59	4,286.19	4,211.70	74.49	57.542		
15,300.00	7,730.00	7,974.31	7,740.22	112.44	37.07	93.38	-1,002.41	1,254.56	4,383.65	4,309.13	74.53	58.821		
15,400.00	7,730.00	7,976.73	7,742.64	114.08	37.07	93.53	-1,002.45	1,254.54	4,481.23	4,406.67	74.56	60.100		
15,500.00	7,730.00	7,979.22	7,745.13	115.72	37.08	93.67	-1,002.49	1,254.50	4,578.91	4,504.31	74.60	61.378		
15,600.00	7,730.00	7,981.79	7,747.70	117.36	37.09	93.82	-1,002.53	1,254.47	4,676.69	4,602.05	74.64	62.656		
15,700.00	7,730.00	7,984.43	7,750.34	119.00	37.09	93.98	-1,002.58	1,254.44	4,774.56	4,699.88	74.68	63.934		
15,800.00	7,730.00	7,987.16	7,753.06	120.65	37.10	94.14	-1,002.62	1,254.40	4,872.51	4,797.79	74.72	65.211		
15,900.00	7,730.00	7,989.97	7,755.87	122.30	37.10	94.30	-1,002.67	1,254.37	4,970.55	4,895.79	74.76	66.487		
16,000.00	7,730.00	7,992.87	7,758.77	123.96	37.11	94.47	-1,002.72	1,254.33	5,068.66	4,993.85	74.80	67.762		
16,100.00	7,730.00	7,995.86	7,761.77	125.61	37.12	94.65	-1,002.78	1,254.29	5,166.84	5,092.00	74.84	69.036		
16,200.00	7,730.00	7,998.95	7,764.86	127.27	37.13	94.83	-1,002.83	1,254.24	5,265.09	5,190.20	74.88	70.310		
16,300.00	7,730.00	8,002.15	7,768.05	128.94	37.13	95.02	-1,002.89	1,254.20	5,363.40	5,288.47	74.93	71.582		
16,400.00	7,730.00	8,005.45	7,771.35	130.60	37.14	95.21	-1,002.96	1,254.15	5,461.77	5,386.80	74.97	72.853		
16,500.00	7,730.00	8,008.87	7,774.77	132.27	37.15	95.41	-1,003.02	1,254.10	5,560.20	5,485.19	75.01	74.123		
16,600.00	7,730.00	8,012.40	7,778.30	133.94	37.16	95.62	-1,003.09	1,254.04	5,658.69	5,583.63	75.06	75.392		
16,700.00	7,730.00	8,016.07	7,781.97	135.61	37.17	95.83	-1,003.16	1,253.99	5,757.22	5,682.12	75.10	76.660		
16,800.00	7,730.00	8,019.86	7,785.76	137.28	37.18	96.06	-1,003.24	1,253.93	5,855.81	5,780.66	75.15	77.926		
16,900.00	7,730.00	8,023.80	7,789.70	138.96	37.19	96.29	-1,003.32	1,253.86	5,954.43	5,879.24	75.19	79.190		
17,000.00	7,730.00	17,000.00	7,761.05	140.64	59.87	94.61	-1,002.82	1,254.25	6,053.11	5,952.38	100.73	60.094		
17,100.00	7,730.00	8,019.18	7,785.07	142.32	37.18	96.02	-1,003.22	1,253.95	6,151.83	6,076.54	75.30	81.701		
17,200.00	7,730.00	8,020.93	7,786.83	144.00	37.18	96.12	-1,003.25	1,253.92	6,250.59	6,175.25	75.35	82.959		
17,300.00	7,730.00	8,022.67	7,788.57	145.69	37.18	96.22	-1,003.28	1,253.90	6,349.39	6,273.99	75.40	84.215		
17,400.00	7,730.00	8,024.41	7,790.30	147.37	37.19	96.32	-1,003.32	1,253.88	6,448.22	6,372.78	75.45	85.469		
17,500.00	7,730.00	8,026.13	7,792.03	149.06	37.19	96.42	-1,003.35	1,253.85	6,547.09	6,471.60	75.50	86.721		
17,600.00	7,730.00	8,027.85	7,793.74	150.75	37.20	96.52	-1,003.38	1,253.83	6,645.99	6,570.45	75.55	87.972		
17,700.00	7,730.00	8,029.56	7,795.45	152.44	37.20	96.62	-1,003.41	1,253.81	6,744.93	6,669.33	75.60	89.220		
17,800.00	7,730.00	8,031.25	7,797.15	154.13	37.20	96.72	-1,003.45	1,253.79	6,843.89	6,768.24	75.65	90.467		
17,900.00	7,730.00	8,032.94	7,798.84	155.83	37.21	96.82	-1,003.48	1,253.77	6,942.88	6,867.18	75.70	91.712		
18,000.00	7,730.00	8,034.62	7,800.52	157.52	37.21	96.92	-1,003.51	1,253.75	7,041.91	6,966.15	75.76	92.955		
18,100.00	7,730.00	8,036.29	7,802.19	159.22	37.22	97.01	-1,003.54	1,253.72	7,140.95	7,065.14	75.81	94.195		
18,200.00	7,730.00	8,037.96	7,803.85	160.92	37.22	97.11	-1,003.57	1,253.70	7,240.03	7,164.16	75.86	95.434		
18,300.00	7,730.00	8,039.61	7,805.50	162.62	37.22	97.21	-1,003.60	1,253.68	7,339.13	7,263.21	75.92	96.671		
18,400.00	7,730.00	8,041.25	7,807.15	164.32	37.23	97.30	-1,003.63	1,253.67	7,438.25	7,362.27	75.97	97.905		
18,426.22	7,730.00	8,041.68	7,807.58	164.76	37.23	97.33	-1,003.64	1,253.66	7,464.24	7,388.25	75.99	98.229		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.75	-2,073.07	2,165.72	2,998.36					
100.00	100.00	61.56	61.56	0.13	0.10	133.75	-2,072.96	2,165.70	2,997.92	2,997.69	0.23	N/A		
200.00	200.00	165.72	165.72	0.49	0.36	133.74	-2,072.38	2,165.61	2,997.46	2,996.61	0.85	3,524.479		
300.00	300.00	264.54	264.54	0.85	0.71	133.74	-2,071.98	2,165.51	2,997.11	2,995.55	1.56	1,917.520		
400.00	400.00	372.00	372.00	1.21	1.10	133.73	-2,071.48	2,165.26	2,996.62	2,994.31	2.31	1,299.872		
500.00	500.00	615.66	615.49	1.57	1.97	133.80	-2,069.48	2,157.94	2,994.30	2,990.77	3.53	847.498		
600.00	600.00	734.57	733.94	1.93	2.40	133.94	-2,069.84	2,147.60	2,988.17	2,983.85	4.32	691.918		
700.00	700.00	823.86	822.72	2.29	2.74	134.10	-2,071.90	2,138.36	2,982.30	2,977.30	5.01	595.815		
800.00	800.00	899.84	898.15	2.64	3.03	134.26	-2,075.00	2,129.66	2,976.94	2,971.29	5.65	526.799		
900.00	900.00	967.92	965.58	3.00	3.30	134.43	-2,079.30	2,121.37	2,972.60	2,966.33	6.27	473.810		
1,000.00	1,000.00	1,034.57	1,031.40	3.36	3.57	134.62	-2,085.10	2,112.70	2,969.39	2,962.49	6.90	430.399		
1,100.00	1,100.00	1,086.20	1,082.26	3.72	3.78	134.79	-2,090.72	2,105.78	2,967.54	2,960.07	7.47	397.219		
1,156.56	1,156.56	1,113.96	1,109.56	3.92	3.90	134.89	-2,094.16	2,102.17	2,967.26	2,959.47	7.79	380.949		
1,200.00	1,200.00	1,139.00	1,134.18	4.08	4.00	134.98	-2,097.51	2,098.98	2,967.43	2,959.38	8.05	368.655		
1,300.00	1,299.98	1,182.68	1,177.06	4.43	4.19	88.00	-2,103.90	2,093.62	2,969.02	2,960.43	8.59	345.664		
1,400.00	1,399.84	1,233.00	1,226.36	4.79	4.40	88.18	-2,112.09	2,087.82	2,972.32	2,963.16	9.16	324.642		
1,500.00	1,499.45	1,262.00	1,254.72	5.15	4.53	88.24	-2,117.26	2,084.67	2,977.46	2,967.83	9.63	309.222		
1,600.00	1,598.70	1,338.00	1,328.86	5.51	4.86	88.58	-2,132.02	2,076.87	2,984.19	2,973.86	10.33	288.948		
1,700.00	1,697.47	1,376.34	1,366.15	5.89	5.03	88.68	-2,140.11	2,073.11	2,992.51	2,981.65	10.86	275.436		
1,800.00	1,795.62	1,433.00	1,421.04	6.28	5.29	88.93	-2,153.09	2,067.74	3,002.71	2,991.21	11.50	261.036		
1,900.00	1,893.06	1,462.58	1,449.59	6.69	5.43	88.94	-2,160.35	2,065.07	3,014.75	3,002.72	12.03	250.650		
2,000.00	1,989.64	1,500.77	1,486.34	7.13	5.62	89.01	-2,170.22	2,061.88	3,028.88	3,016.26	12.62	240.059		
2,100.00	2,085.27	1,527.00	1,511.51	7.61	5.74	88.93	-2,177.32	2,059.85	3,045.16	3,031.99	13.17	231.254		
2,200.00	2,179.82	1,573.97	1,556.45	8.12	5.98	89.04	-2,190.61	2,056.63	3,063.47	3,049.61	13.86	221.008		
2,300.00	2,273.17	1,622.00	1,602.22	8.67	6.22	89.15	-2,204.91	2,053.97	3,084.03	3,069.44	14.60	211.304		
2,400.00	2,365.21	1,661.04	1,639.37	9.27	6.42	89.13	-2,216.80	2,052.19	3,106.47	3,091.16	15.31	202.845		
2,500.00	2,455.84	1,734.50	1,709.33	9.92	6.80	89.50	-2,239.02	2,049.52	3,130.45	3,114.18	16.27	192.420		
2,580.62	2,527.80	1,827.51	1,798.23	10.49	7.28	90.20	-2,266.16	2,046.21	3,150.02	3,132.76	17.26	182.498		
2,600.00	2,544.97	1,837.63	1,807.92	10.63	7.33	90.32	-2,269.08	2,045.87	3,154.83	3,137.40	17.43	180.968		
2,700.00	2,633.58	1,890.03	1,858.05	11.37	7.61	90.94	-2,284.24	2,044.38	3,180.65	3,162.32	18.33	173.476		
2,800.00	2,722.19	1,987.47	1,951.42	12.13	8.13	92.07	-2,312.06	2,042.50	3,207.79	3,188.29	19.50	164.520		
2,900.00	2,810.80	2,059.54	2,020.68	12.91	8.51	92.89	-2,331.94	2,041.54	3,235.61	3,215.08	20.52	157.674		
3,000.00	2,899.41	2,136.54	2,094.64	13.71	8.92	93.75	-2,353.35	2,040.52	3,264.62	3,243.04	21.58	151.288		
3,100.00	2,988.02	2,205.46	2,160.69	14.52	9.30	94.53	-2,372.94	2,038.62	3,294.57	3,271.97	22.59	145.813		
3,200.00	3,076.63	2,248.98	2,202.31	15.34	9.55	95.02	-2,385.60	2,037.52	3,326.11	3,302.64	23.46	141.770		
3,300.00	3,165.24	2,308.28	2,258.95	16.16	9.88	95.68	-2,403.15	2,036.63	3,359.32	3,334.90	24.41	137.612		
3,400.00	3,253.85	2,398.05	2,345.06	17.00	10.38	96.63	-2,428.48	2,037.04	3,393.20	3,367.67	25.53	132.903		
3,500.00	3,342.46	2,453.47	2,398.19	17.84	10.69	97.21	-2,444.29	2,037.26	3,428.20	3,401.76	26.44	129.653		
3,600.00	3,431.07	2,536.82	2,477.89	18.69	11.16	98.08	-2,468.65	2,036.93	3,464.32	3,436.80	27.52	125.905		
3,700.00	3,519.68	2,604.72	2,542.90	19.55	11.54	98.78	-2,488.26	2,036.81	3,501.11	3,472.62	28.49	122.904		
3,800.00	3,608.29	2,865.44	2,793.50	20.40	13.02	101.40	-2,559.60	2,033.18	3,538.15	3,507.55	30.60	115.634		
3,900.00	3,696.90	2,908.03	2,834.53	21.26	13.26	101.84	-2,570.79	2,030.85	3,573.15	3,541.72	31.43	113.702		
4,000.00	3,785.51	2,954.78	2,879.54	22.13	13.52	102.31	-2,583.26	2,028.96	3,609.67	3,577.40	32.26	111.879		
4,100.00	3,874.12	3,013.42	2,936.03	23.00	13.86	102.88	-2,598.95	2,027.43	3,647.44	3,614.28	33.16	109.999		
4,200.00	3,962.73	3,116.79	3,035.63	23.87	14.44	103.86	-2,626.51	2,025.07	3,686.03	3,651.71	34.32	107.416		
4,300.00	4,051.34	3,180.49	3,096.92	24.74	14.81	104.48	-2,643.62	2,022.31	3,724.98	3,689.75	35.23	105.735		
4,400.00	4,139.95	3,245.46	3,159.27	25.62	15.19	105.11	-2,661.59	2,018.91	3,765.03	3,728.88	36.14	104.173		
4,500.00	4,228.56	3,333.52	3,243.82	26.49	15.71	105.95	-2,685.75	2,014.25	3,805.65	3,768.46	37.19	102.328		
4,600.00	4,317.17	3,396.00	3,303.86	27.37	16.07	106.53	-2,702.79	2,011.44	3,847.05	3,808.98	38.07	101.056		
4,700.00	4,405.78	3,448.47	3,354.27	28.25	16.38	107.01	-2,717.20	2,009.48	3,889.44	3,850.57	38.87	100.054		
4,800.00	4,494.39	3,507.00	3,410.40	29.13	16.73	107.54	-2,733.68	2,007.43	3,933.00	3,893.29	39.71	99.054		
4,900.00	4,583.00	3,566.75	3,467.66	30.02	17.08	108.07	-2,750.66	2,005.68	3,977.48	3,936.95	40.53	98.126		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	3,637.55	3,535.57	30.90	17.50	108.67	-2,770.63	2,004.31	4,022.61	3,981.18	41.43	97.104		
5,100.00	4,760.22	3,704.35	3,599.65	31.79	17.89	109.23	-2,789.48	2,003.58	4,068.43	4,026.15	42.28	96.219		
5,200.00	4,848.83	3,770.00	3,662.58	32.67	18.28	109.77	-2,808.18	2,002.69	4,114.95	4,071.83	43.13	95.418		
5,300.00	4,937.44	3,832.41	3,722.29	33.56	18.65	110.29	-2,826.27	2,001.12	4,162.19	4,118.25	43.94	94.720		
5,400.00	5,026.05	3,901.69	3,788.36	34.45	19.08	110.88	-2,846.83	1,997.90	4,210.20	4,165.40	44.80	93.986		
5,500.00	5,114.66	5,063.99	4,931.37	35.34	24.27	118.97	-3,030.06	1,971.56	4,240.26	4,189.05	51.21	82.795		
5,600.00	5,203.27	5,166.90	5,034.22	36.23	24.58	119.57	-3,033.44	1,970.34	4,268.24	4,216.06	52.19	81.788		
5,700.00	5,291.88	5,246.94	5,114.22	37.12	24.83	120.04	-3,035.88	1,969.45	4,296.42	4,243.35	53.08	80.949		
5,800.00	5,380.50	5,800.00	5,224.37	38.01	26.47	120.67	-3,039.24	1,968.56	4,325.02	4,269.50	55.52	77.894		
5,900.00	5,469.11	5,474.01	5,341.20	38.90	25.50	121.31	-3,041.59	1,968.48	4,353.08	4,298.01	55.07	79.045		
6,000.00	5,557.72	5,565.52	5,432.70	39.79	25.76	121.81	-3,043.27	1,968.74	4,381.42	4,325.44	55.99	78.260		
6,100.00	5,646.33	5,661.45	5,528.62	40.68	26.04	122.32	-3,044.88	1,968.95	4,409.95	4,353.03	56.91	77.487		
6,200.00	5,734.94	5,765.18	5,632.33	41.58	26.33	122.87	-3,046.38	1,969.06	4,438.57	4,380.71	57.86	76.708		
6,300.00	5,823.55	5,876.59	5,743.74	42.47	26.65	123.45	-3,047.48	1,969.35	4,467.13	4,408.29	58.83	75.927		
6,400.00	5,912.16	6,010.29	5,877.43	43.36	27.00	124.13	-3,047.77	1,969.62	4,495.31	4,435.45	59.86	75.093		
6,500.00	6,000.77	6,109.58	5,976.73	44.26	27.26	124.63	-3,047.28	1,969.30	4,523.10	4,462.33	60.77	74.429		
6,600.00	6,089.38	6,185.15	6,052.29	45.15	27.45	125.02	-3,047.04	1,968.73	4,551.33	4,489.73	61.60	73.882		
6,700.00	6,177.99	6,259.90	6,127.04	46.05	27.65	125.40	-3,047.06	1,968.11	4,580.16	4,517.73	62.43	73.365		
6,800.00	6,266.60	6,358.47	6,225.61	46.94	27.91	125.89	-3,047.11	1,967.79	4,609.35	4,546.02	63.33	72.785		
6,900.00	6,355.21	6,486.26	6,353.39	47.84	28.24	126.50	-3,046.27	1,967.78	4,638.17	4,573.86	64.31	72.122		
7,000.00	6,443.82	6,585.55	6,452.68	48.74	28.49	126.99	-3,045.24	1,966.74	4,666.91	4,601.71	65.20	71.579		
7,100.00	6,532.43	6,671.67	6,538.75	49.63	28.72	127.42	-3,044.29	1,964.49	4,695.82	4,629.77	66.04	71.101		
7,200.00	6,621.04	6,745.40	6,612.44	50.53	28.93	127.80	-3,043.65	1,961.97	4,725.21	4,658.37	66.85	70.688		
7,300.00	6,709.65	6,813.52	6,680.51	51.42	29.12	128.14	-3,043.31	1,959.43	4,755.24	4,687.61	67.62	70.319		
7,400.00	6,798.26	6,877.57	6,744.52	52.32	29.30	128.46	-3,043.28	1,957.22	4,785.96	4,717.57	68.38	69.987		
7,500.00	6,886.87	6,948.80	6,815.73	53.22	29.51	128.81	-3,043.58	1,955.25	4,817.36	4,748.20	69.17	69.649		
7,600.00	6,975.48	7,108.59	6,975.41	54.12	29.98	129.59	-3,043.76	1,949.71	4,849.04	4,778.78	70.26	69.018		
7,656.30	7,025.36	7,212.34	7,079.06	54.62	30.26	130.10	-3,041.96	1,945.24	4,865.84	4,794.94	70.90	68.628		
7,700.00	7,064.54	7,235.38	7,102.08	55.00	30.33	123.05	-3,041.51	1,944.35	4,877.36	4,806.15	71.21	68.492		
7,750.00	7,110.29	7,262.31	7,128.99	55.40	30.40	113.12	-3,041.09	1,943.45	4,886.78	4,815.22	71.56	68.286		
7,800.00	7,156.67	7,290.00	7,156.66	55.75	30.48	101.34	-3,040.76	1,942.70	4,892.14	4,820.23	71.91	68.029		
7,850.00	7,203.34	7,326.12	7,192.77	56.05	30.57	88.55	-3,040.45	1,942.01	4,893.36	4,821.08	72.28	67.702		
7,900.00	7,249.95	7,362.89	7,229.54	56.30	30.68	76.01	-3,040.20	1,941.70	4,890.38	4,817.74	72.63	67.330		
7,950.00	7,296.14	7,400.72	7,267.38	56.50	30.78	64.92	-3,040.04	1,941.73	4,883.21	4,810.24	72.97	66.917		
8,000.00	7,341.56	7,439.37	7,306.02	56.64	30.89	55.81	-3,039.92	1,941.65	4,871.89	4,798.59	73.30	66.465		
8,050.00	7,385.86	7,476.93	7,343.58	56.74	30.99	48.64	-3,039.84	1,941.38	4,856.50	4,782.90	73.60	65.984		
8,100.00	7,428.71	7,513.81	7,380.45	56.79	31.10	43.11	-3,039.82	1,940.98	4,837.14	4,763.26	73.88	65.469		
8,150.00	7,469.77	7,549.21	7,415.85	56.80	31.21	38.86	-3,039.83	1,940.58	4,813.95	4,739.81	74.14	64.927		
8,200.00	7,508.75	7,644.33	7,510.97	56.77	31.48	35.96	-3,039.57	1,940.13	4,787.02	4,712.41	74.60	64.165		
8,250.00	7,545.33	8,250.00	7,526.92	56.70	33.18	33.44	-3,039.34	1,940.36	4,756.16	4,679.47	76.69	62.020		
8,300.00	7,579.25	7,699.93	7,566.56	56.59	31.63	31.72	-3,038.97	1,940.79	4,722.06	4,647.07	74.99	62.970		
8,350.00	7,610.24	7,715.31	7,581.94	56.45	31.68	30.41	-3,038.89	1,940.97	4,685.10	4,609.99	75.11	62.374		
8,400.00	7,638.06	7,729.23	7,595.86	56.28	31.71	29.59	-3,038.86	1,941.14	4,645.48	4,570.26	75.22	61.759		
8,450.00	7,662.52	7,741.56	7,608.19	56.09	31.75	29.27	-3,038.87	1,941.27	4,603.46	4,528.15	75.31	61.129		
8,500.00	7,683.41	7,761.00	7,627.63	55.88	31.80	29.63	-3,038.96	1,941.48	4,559.34	4,483.92	75.41	60.457		
8,550.00	7,700.59	7,761.00	7,627.63	55.64	31.80	30.50	-3,038.96	1,941.48	4,513.38	4,437.94	75.44	59.828		
8,600.00	7,713.91	7,761.00	7,627.63	55.39	31.80	32.53	-3,038.96	1,941.48	4,465.96	4,390.50	75.46	59.185		
8,650.00	7,723.29	7,761.00	7,627.63	55.14	31.80	36.93	-3,038.96	1,941.48	4,417.39	4,341.92	75.47	58.531		
8,700.00	7,728.64	7,761.00	7,627.63	54.87	31.80	48.25	-3,038.96	1,941.48	4,368.03	4,292.54	75.48	57.867		
8,740.83	7,730.00	7,761.00	7,627.63	54.65	31.80	78.58	-3,038.96	1,941.48	4,327.36	4,251.87	75.49	57.321		
8,800.00	7,730.00	7,761.00	7,627.63	54.33	31.80	78.58	-3,038.96	1,941.48	4,268.32	4,192.81	75.51	56.528		
8,900.00	7,730.00	7,778.04	7,644.67	53.82	31.86	82.04	-3,039.10	1,941.66	4,168.48	4,092.87	75.61	55.134		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,778.58	7,645.21	53.33	31.86	82.15	-3,039.10	1,941.67	4,068.70	3,993.06	75.64	53.792		
9,100.00	7,730.00	7,779.13	7,645.76	52.87	31.86	82.26	-3,039.11	1,941.67	3,968.94	3,893.27	75.67	52.449		
9,200.00	7,730.00	7,779.69	7,646.32	52.44	31.86	82.37	-3,039.11	1,941.68	3,869.19	3,793.48	75.71	51.106		
9,300.00	7,730.00	7,780.26	7,646.89	52.03	31.86	82.49	-3,039.12	1,941.68	3,769.45	3,693.70	75.75	49.762		
9,400.00	7,730.00	7,780.85	7,647.48	51.65	31.86	82.61	-3,039.13	1,941.69	3,669.73	3,593.93	75.79	48.418		
9,500.00	7,730.00	7,781.45	7,648.08	51.29	31.87	82.74	-3,039.13	1,941.70	3,570.02	3,494.18	75.84	47.074		
9,600.00	7,730.00	7,782.07	7,648.70	50.95	31.87	82.86	-3,039.14	1,941.70	3,470.33	3,394.44	75.89	45.729		
9,700.00	7,730.00	7,782.70	7,649.33	50.64	31.87	82.99	-3,039.15	1,941.71	3,370.65	3,294.71	75.94	44.384		
9,800.00	7,730.00	7,783.35	7,649.98	50.35	31.87	83.13	-3,039.15	1,941.72	3,271.00	3,195.00	76.00	43.038		
9,900.00	7,730.00	7,784.01	7,650.64	50.09	31.87	83.26	-3,039.16	1,941.72	3,171.37	3,095.30	76.06	41.693		
10,000.00	7,730.00	7,784.69	7,651.32	49.86	31.88	83.40	-3,039.17	1,941.73	3,071.76	2,995.62	76.13	40.347		
10,100.00	7,730.00	7,785.39	7,652.02	49.65	31.88	83.55	-3,039.18	1,941.74	2,972.17	2,895.97	76.21	39.001		
10,200.00	7,730.00	7,786.11	7,652.73	49.48	31.88	83.69	-3,039.18	1,941.74	2,872.62	2,796.33	76.29	37.655		
10,300.00	7,730.00	7,786.84	7,653.47	49.35	31.88	83.85	-3,039.19	1,941.75	2,773.10	2,696.72	76.38	36.309		
10,400.00	7,730.00	7,787.60	7,654.22	49.27	31.88	84.00	-3,039.20	1,941.76	2,673.61	2,597.14	76.47	34.963		
10,500.00	7,730.00	7,788.37	7,655.00	49.26	31.89	84.16	-3,039.21	1,941.77	2,574.16	2,497.59	76.57	33.617		
10,600.00	7,730.00	7,789.17	7,655.79	49.32	31.89	84.33	-3,039.22	1,941.78	2,474.76	2,398.07	76.69	32.271		
10,700.00	7,730.00	7,789.99	7,656.61	49.51	31.89	84.50	-3,039.23	1,941.78	2,375.41	2,298.60	76.81	30.925		
10,800.00	7,730.00	7,790.83	7,657.45	49.83	31.89	84.67	-3,039.24	1,941.79	2,276.11	2,199.16	76.95	29.580		
10,900.00	7,730.00	7,791.69	7,658.32	50.31	31.90	84.85	-3,039.25	1,941.80	2,176.88	2,099.78	77.10	28.235		
11,000.00	7,730.00	7,792.59	7,659.21	50.96	31.90	85.04	-3,039.26	1,941.81	2,077.71	2,000.45	77.27	26.891		
11,100.00	7,730.00	7,793.50	7,660.13	51.75	31.90	85.23	-3,039.28	1,941.82	1,978.64	1,901.19	77.45	25.547		
11,200.00	7,730.00	7,794.45	7,661.08	52.66	31.91	85.42	-3,039.29	1,941.83	1,879.66	1,802.00	77.66	24.204		
11,300.00	7,730.00	7,795.42	7,662.05	53.67	31.91	85.62	-3,039.30	1,941.84	1,780.79	1,702.90	77.89	22.862		
11,400.00	7,730.00	7,796.43	7,663.05	54.75	31.91	85.83	-3,039.31	1,941.85	1,682.06	1,603.90	78.16	21.522		
11,500.00	7,730.00	7,797.46	7,664.09	55.89	31.92	86.05	-3,039.33	1,941.86	1,583.48	1,505.02	78.46	20.183		
11,600.00	7,730.00	7,798.53	7,665.16	57.07	31.92	86.27	-3,039.34	1,941.87	1,485.10	1,406.29	78.80	18.846		
11,700.00	7,730.00	7,799.64	7,666.26	58.30	31.92	86.50	-3,039.36	1,941.88	1,386.94	1,307.74	79.20	17.511		
11,800.00	7,730.00	7,800.78	7,667.40	59.55	31.93	86.74	-3,039.38	1,941.90	1,289.07	1,209.39	79.67	16.180		
11,900.00	7,730.00	7,801.96	7,668.58	60.84	31.93	86.98	-3,039.39	1,941.91	1,191.54	1,111.32	80.23	14.852		
12,000.00	7,730.00	7,803.18	7,669.80	62.15	31.93	87.24	-3,039.41	1,941.92	1,094.47	1,013.57	80.89	13.530		
12,100.00	7,730.00	7,804.44	7,671.06	63.49	31.94	87.50	-3,039.43	1,941.93	997.97	916.27	81.70	12.215		
12,200.00	7,730.00	7,805.74	7,672.37	64.85	31.94	87.78	-3,039.45	1,941.95	902.23	819.53	82.70	10.910		
12,300.00	7,730.00	7,807.09	7,673.72	66.22	31.94	88.06	-3,039.47	1,941.96	807.52	723.56	83.96	9.618		
12,400.00	7,730.00	7,808.50	7,675.12	67.62	31.95	88.35	-3,039.50	1,941.98	714.25	628.68	85.57	8.347		
12,500.00	7,730.00	7,809.95	7,676.58	69.03	31.95	88.66	-3,039.52	1,941.99	623.06	535.38	87.68	7.106		
12,600.00	7,730.00	7,811.46	7,678.08	70.45	31.96	88.97	-3,039.55	1,942.01	535.04	444.55	90.49	5.913		
12,700.00	7,730.00	7,813.03	7,679.65	71.90	31.96	89.30	-3,039.57	1,942.02	452.01	357.79	94.23	4.797		
12,800.00	7,730.00	7,814.66	7,681.28	73.35	31.97	89.64	-3,039.60	1,942.04	377.31	278.29	99.02	3.810		
12,900.00	7,730.00	7,816.36	7,682.98	74.81	31.97	90.00	-3,039.63	1,942.06	316.86	212.63	104.23	3.040		
13,000.00	7,730.00	7,818.12	7,684.74	76.29	31.98	90.37	-3,039.66	1,942.07	280.06	172.95	107.11	2.615		
13,059.87	7,730.00	7,819.22	7,685.84	77.18	31.98	90.59	-3,039.68	1,942.09	273.59	167.67	105.92	2.583 CC, ES, SF		
13,100.00	7,730.00	7,819.96	7,686.58	77.78	31.98	90.75	-3,039.70	1,942.09	276.52	172.84	103.68	2.667		
13,200.00	7,730.00	7,821.88	7,688.50	79.28	31.99	91.15	-3,039.73	1,942.11	307.38	212.36	95.02	3.235		
13,300.00	7,730.00	7,823.89	7,690.51	80.79	32.00	91.57	-3,039.77	1,942.13	364.00	277.53	86.47	4.210		
13,400.00	7,730.00	7,825.98	7,692.60	82.31	32.00	92.01	-3,039.81	1,942.16	436.46	355.93	80.53	5.420		
13,500.00	7,730.00	7,828.17	7,694.79	83.84	32.01	92.47	-3,039.86	1,942.18	518.16	441.23	76.93	6.735		
13,600.00	7,730.00	7,830.46	7,697.08	85.37	32.02	92.95	-3,039.90	1,942.20	605.38	530.52	74.85	8.088		
13,700.00	7,730.00	7,832.87	7,699.48	86.92	32.02	93.45	-3,039.95	1,942.23	696.03	622.36	73.67	9.448		
13,800.00	7,730.00	7,835.39	7,702.00	88.47	32.03	93.98	-3,040.01	1,942.25	788.94	715.94	73.00	10.808		
13,900.00	7,730.00	7,838.03	7,704.65	90.03	32.04	94.53	-3,040.07	1,942.28	883.39	810.77	72.63	12.164		
14,000.00	7,730.00	7,840.82	7,707.44	91.59	32.05	95.11	-3,040.13	1,942.31	978.94	906.51	72.43	13.515		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,843.75	7,710.37	93.16	32.06	95.72	-3,040.20	1,942.34	1,075.29	1,002.94	72.35	14.862		
14,200.00	7,730.00	7,846.85	7,713.46	94.74	32.07	96.36	-3,040.27	1,942.37	1,172.25	1,099.92	72.33	16.206		
14,300.00	7,730.00	7,850.12	7,716.73	96.33	32.08	97.04	-3,040.35	1,942.40	1,269.67	1,197.32	72.35	17.548		
14,400.00	7,730.00	7,853.57	7,720.18	97.92	32.09	97.75	-3,040.44	1,942.44	1,367.46	1,295.06	72.40	18.887		
14,500.00	7,730.00	7,857.24	7,723.85	99.51	32.10	98.50	-3,040.54	1,942.48	1,465.54	1,393.08	72.47	20.224		
14,600.00	7,730.00	7,861.12	7,727.73	101.11	32.11	99.30	-3,040.64	1,942.52	1,563.86	1,491.32	72.54	21.559		
14,700.00	7,730.00	7,865.26	7,731.86	102.72	32.12	100.14	-3,040.76	1,942.56	1,662.37	1,589.76	72.62	22.893		
14,800.00	7,730.00	7,869.66	7,736.27	104.33	32.14	101.04	-3,040.88	1,942.60	1,761.05	1,688.35	72.70	24.225		
14,900.00	7,730.00	7,874.36	7,740.97	105.94	32.15	101.99	-3,041.02	1,942.65	1,859.85	1,787.08	72.78	25.555		
15,000.00	7,730.00	7,870.23	7,736.83	107.56	32.14	101.15	-3,040.88	1,942.61	1,958.81	1,885.92	72.89	26.873		
15,100.00	7,730.00	7,873.00	7,739.60	109.18	32.15	101.71	-3,040.95	1,942.63	2,057.84	1,984.86	72.98	28.197		
15,200.00	7,730.00	7,875.78	7,742.38	110.81	32.16	102.27	-3,041.02	1,942.66	2,156.96	2,083.90	73.07	29.521		
15,300.00	7,730.00	7,878.58	7,745.18	112.44	32.17	102.83	-3,041.10	1,942.69	2,256.15	2,183.00	73.15	30.842		
15,400.00	7,730.00	7,881.39	7,747.99	114.08	32.18	103.39	-3,041.17	1,942.72	2,355.41	2,282.18	73.23	32.162		
15,500.00	7,730.00	7,884.22	7,750.82	115.72	32.19	103.96	-3,041.25	1,942.74	2,454.73	2,381.41	73.32	33.481		
15,600.00	7,730.00	7,887.06	7,753.66	117.36	32.20	104.52	-3,041.33	1,942.77	2,554.09	2,480.70	73.40	34.798		
15,700.00	7,730.00	7,889.93	7,756.52	119.00	32.20	105.08	-3,041.40	1,942.80	2,653.50	2,580.03	73.48	36.113		
15,800.00	7,730.00	7,892.80	7,759.40	120.65	32.21	105.64	-3,041.48	1,942.83	2,752.96	2,679.40	73.56	37.427		
15,900.00	7,730.00	7,895.70	7,762.29	122.30	32.22	106.21	-3,041.56	1,942.85	2,852.44	2,778.81	73.63	38.739		
16,000.00	7,730.00	7,898.60	7,765.20	123.96	32.23	106.77	-3,041.64	1,942.88	2,951.96	2,878.25	73.71	40.049		
16,100.00	7,730.00	7,901.53	7,768.12	125.61	32.24	107.33	-3,041.72	1,942.91	3,051.51	2,977.72	73.78	41.358		
16,200.00	7,730.00	7,904.47	7,771.06	127.27	32.25	107.90	-3,041.80	1,942.94	3,151.08	3,077.22	73.86	42.665		
16,300.00	7,730.00	7,907.43	7,774.02	128.94	32.26	108.46	-3,041.88	1,942.96	3,250.68	3,176.75	73.93	43.971		
16,400.00	7,730.00	7,910.41	7,777.00	130.60	32.27	109.02	-3,041.96	1,942.99	3,350.30	3,276.30	74.00	45.275		
16,500.00	7,730.00	7,913.40	7,779.99	132.27	32.28	109.58	-3,042.04	1,943.02	3,449.93	3,375.86	74.07	46.576		
16,600.00	7,730.00	7,916.41	7,783.00	133.94	32.29	110.14	-3,042.12	1,943.05	3,549.59	3,475.45	74.14	47.877		
16,700.00	7,730.00	7,919.44	7,786.02	135.61	32.30	110.70	-3,042.21	1,943.07	3,649.26	3,575.05	74.21	49.175		
16,800.00	7,730.00	7,922.48	7,789.07	137.28	32.31	111.26	-3,042.29	1,943.10	3,748.95	3,674.67	74.28	50.472		
16,900.00	7,730.00	7,925.55	7,792.13	138.96	32.32	111.82	-3,042.38	1,943.13	3,848.65	3,774.31	74.35	51.766		
17,000.00	7,730.00	7,928.63	7,795.21	140.64	32.33	112.38	-3,042.46	1,943.15	3,948.37	3,873.95	74.41	53.059		
17,100.00	7,730.00	7,931.72	7,798.30	142.32	32.34	112.94	-3,042.55	1,943.18	4,048.10	3,973.61	74.48	54.350		
17,200.00	7,730.00	7,934.84	7,801.42	144.00	32.35	113.49	-3,042.64	1,943.21	4,147.83	4,073.28	74.55	55.639		
17,300.00	7,730.00	7,937.98	7,804.55	145.69	32.36	114.05	-3,042.72	1,943.24	4,247.58	4,172.97	74.62	56.926		
17,400.00	7,730.00	7,941.13	7,807.70	147.37	32.37	114.60	-3,042.81	1,943.26	4,347.34	4,272.66	74.68	58.211		
17,500.00	7,730.00	7,944.30	7,810.87	149.06	32.38	115.15	-3,042.90	1,943.29	4,447.11	4,372.36	74.75	59.494		
17,600.00	7,730.00	7,947.49	7,814.06	150.75	32.39	115.70	-3,042.99	1,943.32	4,546.88	4,472.07	74.81	60.775		
17,700.00	7,730.00	7,950.70	7,817.27	152.44	32.40	116.25	-3,043.08	1,943.34	4,646.66	4,571.78	74.88	62.054		
17,800.00	7,730.00	7,953.96	7,820.53	154.13	32.41	116.80	-3,043.18	1,943.37	4,746.45	4,671.51	74.95	63.331		
17,900.00	7,730.00	7,957.23	7,823.80	155.83	32.42	117.35	-3,043.27	1,943.40	4,846.25	4,771.24	75.01	64.606		
18,000.00	7,730.00	7,960.53	7,827.09	157.52	32.43	117.89	-3,043.37	1,943.42	4,946.05	4,870.97	75.08	65.879		
18,100.00	7,730.00	7,963.84	7,830.41	159.22	32.44	118.44	-3,043.46	1,943.45	5,045.86	4,970.72	75.14	67.150		
18,200.00	7,730.00	7,967.19	7,833.75	160.92	32.46	118.98	-3,043.56	1,943.47	5,145.68	5,070.47	75.21	68.418		
18,300.00	7,730.00	7,970.55	7,837.11	162.62	32.47	119.52	-3,043.66	1,943.50	5,245.50	5,170.22	75.28	69.684		
18,400.00	7,730.00	7,973.94	7,840.50	164.32	32.48	120.06	-3,043.75	1,943.52	5,345.32	5,269.98	75.34	70.948		
18,426.22	7,730.00	7,974.83	7,841.39	164.76	32.48	120.20	-3,043.78	1,943.53	5,371.50	5,296.14	75.36	71.279		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	109.03	-1,475.36	4,277.01	4,524.61					
100.00	100.00	32.64	32.64	0.13	0.05	109.03	-1,475.36	4,277.08	4,524.42	4,524.24	0.19	N/A		
200.00	200.00	97.93	97.93	0.49	0.16	109.03	-1,475.29	4,277.64	4,525.19	4,524.54	0.65	6,991.227		
300.00	300.00	242.43	242.42	0.85	0.62	109.02	-1,474.80	4,279.09	4,526.11	4,524.64	1.47	3,071.838		
400.00	400.00	524.19	523.77	1.21	1.61	109.16	-1,483.83	4,270.67	4,524.44	4,521.61	2.82	1,602.643		
500.00	500.00	620.02	618.88	1.57	1.98	109.30	-1,492.92	4,263.37	4,520.36	4,516.81	3.55	1,275.011		
600.00	600.00	689.79	687.76	1.93	2.26	109.44	-1,502.42	4,257.65	4,517.06	4,512.87	4.19	1,078.831		
700.00	700.00	794.63	790.45	2.29	2.73	109.70	-1,520.95	4,247.63	4,513.91	4,508.90	5.01	901.148		
800.00	800.00	876.99	870.53	2.64	3.13	109.94	-1,538.11	4,238.93	4,510.97	4,505.21	5.76	783.054		
900.00	900.00	950.00	941.29	3.00	3.49	110.17	-1,554.39	4,231.27	4,508.67	4,502.18	6.48	695.257		
1,000.00	1,000.00	1,113.15	1,099.27	3.36	4.34	110.69	-1,591.07	4,213.51	4,506.38	4,498.69	7.69	585.756		
1,100.00	1,100.00	1,214.00	1,197.02	3.72	4.88	111.00	-1,612.76	4,201.51	4,502.81	4,494.22	8.58	524.558		
1,200.00	1,200.00	1,278.12	1,259.24	4.08	5.22	111.19	-1,626.42	4,194.25	4,499.88	4,490.60	9.28	484.782		
1,300.00	1,299.98	1,373.09	1,351.40	4.43	5.73	64.44	-1,647.04	4,184.10	4,496.99	4,486.84	10.15	443.183		
1,400.00	1,399.84	1,456.41	1,431.89	4.79	6.18	64.84	-1,666.29	4,174.55	4,492.59	4,481.63	10.96	409.883		
1,500.00	1,499.45	1,538.16	1,510.68	5.15	6.64	65.29	-1,686.02	4,165.31	4,487.39	4,475.61	11.78	380.999		
1,600.00	1,598.70	1,621.64	1,591.07	5.51	7.12	65.81	-1,706.44	4,155.77	4,481.06	4,468.44	12.62	355.190		
1,700.00	1,697.47	1,686.00	1,653.05	5.89	7.49	66.27	-1,722.29	4,148.74	4,474.10	4,460.75	13.36	335.001		
1,800.00	1,795.62	1,805.86	1,768.67	6.28	8.17	67.08	-1,751.14	4,135.84	4,466.07	4,451.65	14.42	309.687		
1,900.00	1,893.06	1,925.00	1,883.81	6.69	8.83	67.95	-1,778.79	4,122.73	4,456.65	4,441.15	15.49	287.640		
2,000.00	1,989.64	2,049.46	2,004.35	7.13	9.52	68.92	-1,806.28	4,108.45	4,445.57	4,428.96	16.61	267.622		
2,100.00	2,085.27	2,229.43	2,178.85	7.61	10.51	70.33	-1,843.71	4,085.26	4,431.84	4,413.79	18.05	245.538		
2,200.00	2,179.82	2,310.99	2,258.04	8.12	10.95	71.17	-1,859.99	4,074.51	4,417.37	4,398.38	18.99	232.663		
2,300.00	2,273.17	2,376.34	2,321.49	8.67	11.31	71.93	-1,873.10	4,065.96	4,402.54	4,382.67	19.88	221.505		
2,400.00	2,365.21	2,429.29	2,372.94	9.27	11.59	72.62	-1,883.73	4,059.38	4,387.84	4,367.09	20.74	211.532		
2,500.00	2,455.84	2,490.76	2,432.70	9.92	11.93	73.39	-1,896.16	4,052.07	4,373.31	4,351.60	21.71	201.482		
2,580.62	2,527.80	2,555.28	2,495.37	10.49	12.28	74.16	-1,909.47	4,044.45	4,361.68	4,339.08	22.60	192.982		
2,600.00	2,544.97	2,594.81	2,533.75	10.63	12.49	74.50	-1,917.56	4,039.61	4,358.83	4,335.88	22.95	189.915		
2,700.00	2,633.58	2,674.91	2,611.56	11.37	12.92	75.19	-1,933.65	4,029.46	4,344.25	4,320.14	24.11	180.213		
2,800.00	2,722.19	2,724.00	2,659.29	12.13	13.19	75.61	-1,943.44	4,023.50	4,330.95	4,305.83	25.12	172.419		
2,900.00	2,810.80	2,784.20	2,717.91	12.91	13.51	76.13	-1,955.31	4,016.62	4,318.94	4,292.74	26.20	164.816		
3,000.00	2,899.41	2,850.92	2,782.98	13.71	13.86	76.70	-1,968.23	4,009.53	4,308.22	4,280.88	27.34	157.582		
3,100.00	2,988.02	2,937.26	2,867.23	14.52	14.31	77.43	-1,984.73	4,000.39	4,298.37	4,269.78	28.59	150.350		
3,200.00	3,076.63	3,023.76	2,951.67	15.34	14.76	78.17	-2,001.06	3,991.15	4,289.28	4,259.42	29.85	143.685		
3,300.00	3,165.24	3,086.30	3,012.60	16.16	15.09	78.71	-2,013.39	3,984.18	4,281.20	4,250.20	31.01	138.076		
3,400.00	3,253.85	3,147.36	3,071.92	17.00	15.42	79.24	-2,026.01	3,977.16	4,274.30	4,242.14	32.17	132.882		
3,500.00	3,342.46	3,205.88	3,128.68	17.84	15.74	79.76	-2,038.52	3,970.40	4,268.69	4,235.37	33.32	128.113		
3,600.00	3,431.07	3,261.95	3,183.14	18.69	16.04	80.25	-2,050.38	3,964.32	4,264.40	4,229.94	34.46	123.750		
3,700.00	3,519.68	3,318.53	3,238.24	19.55	16.34	80.74	-2,062.02	3,958.78	4,261.45	4,225.85	35.60	119.704		
3,800.00	3,608.29	3,378.00	3,296.21	20.40	16.66	81.25	-2,074.16	3,953.41	4,259.83	4,223.08	36.75	115.907		
3,900.00	3,696.90	3,478.59	3,394.20	21.26	17.19	82.12	-2,094.87	3,944.05	4,259.13	4,220.99	38.14	111.670		
4,000.00	3,785.51	3,585.87	3,498.48	22.13	17.76	83.06	-2,117.40	3,932.75	4,258.89	4,219.32	39.56	107.645		
4,031.12	3,813.08	3,624.49	3,536.04	22.40	17.97	83.40	-2,125.31	3,928.56	4,258.88	4,218.85	40.03	106.381		
4,100.00	3,874.12	3,711.43	3,620.83	23.00	18.42	84.15	-2,142.17	3,919.34	4,258.90	4,217.82	41.08	103.671		
4,200.00	3,962.73	3,807.18	3,714.55	23.87	18.90	84.96	-2,159.20	3,909.65	4,259.16	4,216.75	42.41	100.427		
4,300.00	4,051.34	3,888.16	3,794.13	24.74	19.29	85.63	-2,172.37	3,902.48	4,260.24	4,216.59	43.65	97.610		
4,400.00	4,139.95	4,013.22	3,917.57	25.62	19.85	86.62	-2,190.15	3,893.30	4,262.01	4,216.95	45.06	94.594		
4,500.00	4,228.56	4,188.67	4,091.87	26.49	20.54	87.94	-2,207.34	3,883.31	4,262.73	4,216.13	46.61	91.465		
4,600.00	4,317.17	4,314.83	4,217.72	27.37	20.98	88.82	-2,214.69	3,878.67	4,263.07	4,215.17	47.90	89.004		
4,700.00	4,405.78	4,426.42	4,329.22	28.25	21.31	89.57	-2,218.52	3,876.07	4,263.34	4,214.25	49.08	86.860		
4,800.00	4,494.39	4,538.98	4,441.74	29.13	21.64	90.30	-2,220.65	3,874.35	4,263.67	4,213.41	50.27	84.822		
4,900.00	4,583.00	4,657.26	4,560.02	30.02	21.97	91.05	-2,221.12	3,873.36	4,264.00	4,212.55	51.45	82.876		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,773.92	4,676.66	30.90	22.27	91.78	-2,220.55	3,872.28	4,264.18	4,211.58	52.60	81.066		
5,100.00	4,760.22	4,873.26	4,775.99	31.79	22.51	92.40	-2,219.45	3,871.36	4,264.47	4,210.76	53.70	79.408		
5,200.00	4,848.83	4,975.74	4,878.46	32.67	22.77	93.04	-2,218.23	3,870.11	4,265.04	4,210.22	54.81	77.809		
5,300.00	4,937.44	5,049.48	4,952.19	33.56	22.97	93.50	-2,217.46	3,869.06	4,266.09	4,210.22	55.87	76.359		
5,400.00	5,026.05	5,120.81	5,023.52	34.45	23.16	93.95	-2,217.02	3,868.10	4,268.01	4,211.09	56.92	74.988		
5,500.00	5,114.66	5,191.97	5,094.67	35.34	23.35	94.40	-2,216.90	3,867.21	4,270.79	4,212.83	57.96	73.687		
5,600.00	5,203.27	5,266.00	5,168.69	36.23	23.55	94.87	-2,217.11	3,866.36	4,274.45	4,215.44	59.00	72.443		
5,700.00	5,291.88	5,343.86	5,246.55	37.12	23.78	95.36	-2,217.56	3,865.52	4,278.88	4,218.81	60.07	71.233		
5,800.00	5,380.50	5,431.33	5,334.01	38.01	24.04	95.92	-2,218.14	3,864.62	4,283.92	4,222.76	61.16	70.046		
5,900.00	5,469.11	5,539.80	5,442.48	38.90	24.36	96.60	-2,218.65	3,863.43	4,289.31	4,227.01	62.30	68.845		
6,000.00	5,557.72	5,636.79	5,539.45	39.79	24.63	97.21	-2,218.70	3,862.25	4,294.85	4,231.44	63.41	67.732		
6,100.00	5,646.33	5,731.93	5,634.59	40.68	24.91	97.80	-2,218.55	3,861.10	4,300.75	4,236.25	64.50	66.674		
6,200.00	5,734.94	5,803.17	5,705.82	41.58	25.11	98.25	-2,218.53	3,860.23	4,307.25	4,241.72	65.53	65.728		
6,300.00	5,823.55	5,874.00	5,814.04	42.47	25.55	98.92	-2,218.47	3,858.76	4,314.14	4,246.31	67.83	63.598		
6,400.00	5,912.16	6,035.49	5,938.11	43.36	25.77	99.69	-2,217.27	3,856.93	4,320.73	4,252.91	67.81	63.715		
6,500.00	6,000.77	6,110.85	6,013.46	44.26	25.98	100.15	-2,216.50	3,855.87	4,327.91	4,259.07	68.83	62.876		
6,600.00	6,089.38	6,200.89	6,103.49	45.15	26.24	100.70	-2,215.67	3,854.73	4,335.70	4,265.81	69.89	62.038		
6,700.00	6,177.99	6,296.33	6,198.92	46.05	26.51	101.29	-2,214.74	3,853.39	4,343.89	4,272.94	70.95	61.221		
6,800.00	6,266.60	6,380.30	6,282.87	46.94	26.75	101.80	-2,214.04	3,851.94	4,352.53	4,280.54	71.99	60.461		
6,900.00	6,355.21	6,467.88	6,370.44	47.84	27.01	102.34	-2,213.46	3,850.32	4,361.73	4,288.69	73.03	59.724		
7,000.00	6,443.82	6,541.14	6,443.67	48.74	27.23	102.79	-2,213.08	3,848.93	4,371.51	4,297.48	74.03	59.053		
7,100.00	6,532.43	6,611.57	6,514.10	49.63	27.44	103.22	-2,212.94	3,847.88	4,382.19	4,307.18	75.01	58.422		
7,200.00	6,621.04	6,692.40	6,594.92	50.53	27.68	103.70	-2,212.85	3,846.94	4,393.56	4,317.55	76.02	57.797		
7,300.00	6,709.65	6,764.97	6,667.49	51.42	27.91	104.14	-2,212.93	3,846.21	4,405.65	4,328.65	76.99	57.221		
7,400.00	6,798.26	6,844.59	6,747.10	52.32	28.16	104.62	-2,213.30	3,845.37	4,418.46	4,340.47	77.99	56.655		
7,500.00	6,886.87	6,926.18	6,828.69	53.22	28.41	105.11	-2,213.89	3,844.36	4,431.88	4,352.89	78.99	56.109		
7,600.00	6,975.48	7,009.96	6,912.46	54.12	28.68	105.62	-2,214.72	3,843.11	4,445.88	4,365.89	79.99	55.582		
7,656.30	7,025.36	7,058.10	6,960.58	54.62	28.84	105.91	-2,215.31	3,842.21	4,453.99	4,373.44	80.55	55.294		
7,700.00	7,064.54	7,103.72	7,006.19	55.00	28.99	99.22	-2,215.91	3,841.22	4,458.85	4,377.84	81.01	55.040		
7,750.00	7,110.29	7,157.97	7,060.41	55.40	29.17	89.55	-2,216.59	3,839.84	4,460.69	4,379.16	81.53	54.716		
7,800.00	7,156.67	7,198.83	7,101.26	55.75	29.30	77.78	-2,217.12	3,838.72	4,458.59	4,376.62	81.97	54.393		
7,850.00	7,203.34	7,240.45	7,142.86	56.05	29.44	64.80	-2,217.73	3,837.54	4,452.61	4,370.22	82.39	54.044		
7,900.00	7,249.95	7,283.70	7,186.08	56.30	29.58	51.90	-2,218.43	3,836.26	4,442.77	4,359.98	82.78	53.668		
7,950.00	7,296.14	7,327.08	7,229.43	56.50	29.73	40.25	-2,219.17	3,834.93	4,429.10	4,345.96	83.14	53.271		
8,000.00	7,341.56	7,369.78	7,272.11	56.64	29.87	30.36	-2,219.96	3,833.57	4,411.71	4,328.24	83.47	52.856		
8,050.00	7,385.86	7,411.50	7,313.80	56.74	30.01	22.16	-2,220.76	3,832.19	4,390.68	4,306.93	83.76	52.423		
8,100.00	7,428.71	7,593.99	7,496.20	56.79	30.59	15.66	-2,220.48	3,827.36	4,365.32	4,280.87	84.46	51.688		
8,150.00	7,469.77	7,642.50	7,544.69	56.80	30.73	9.64	-2,219.18	3,826.90	4,336.12	4,251.43	84.69	51.201		
8,200.00	7,508.75	7,675.37	7,577.54	56.77	30.82	4.14	-2,218.27	3,826.66	4,303.86	4,219.02	84.85	50.725		
8,250.00	7,545.33	7,706.17	7,608.33	56.70	30.90	-1.14	-2,217.46	3,826.44	4,268.83	4,183.86	84.97	50.240		
8,300.00	7,579.25	7,735.30	7,637.45	56.59	30.98	-6.51	-2,216.71	3,826.26	4,231.28	4,146.22	85.06	49.745		
8,350.00	7,610.24	7,762.46	7,664.60	56.45	31.06	-12.31	-2,216.02	3,826.13	4,191.48	4,106.37	85.12	49.244		
8,400.00	7,638.06	7,786.72	7,688.86	56.28	31.13	-18.88	-2,215.40	3,826.08	4,149.74	4,064.60	85.14	48.739		
8,450.00	7,662.52	7,807.89	7,710.02	56.09	31.19	-26.60	-2,214.85	3,826.07	4,106.37	4,021.24	85.13	48.234		
8,500.00	7,683.41	7,826.18	7,728.30	55.88	31.24	-35.84	-2,214.37	3,826.09	4,061.72	3,976.63	85.10	47.731		
8,550.00	7,700.59	7,841.25	7,743.37	55.64	31.28	-46.80	-2,213.97	3,826.12	4,016.13	3,931.10	85.03	47.232		
8,600.00	7,713.91	7,852.66	7,754.77	55.39	31.31	-59.21	-2,213.68	3,826.14	3,969.98	3,885.04	84.94	46.741		
8,650.00	7,723.29	7,860.32	7,762.42	55.14	31.33	-72.15	-2,213.48	3,826.16	3,923.62	3,838.80	84.81	46.261		
8,700.00	7,728.64	7,864.15	7,766.26	54.87	31.34	-84.36	-2,213.38	3,826.17	3,877.44	3,792.77	84.67	45.795		
8,740.83	7,730.00	7,864.44	7,766.54	54.65	31.34	-93.08	-2,213.37	3,826.17	3,840.11	3,755.58	84.53	45.427		
8,800.00	7,730.00	7,862.98	7,765.09	54.33	31.34	-93.03	-2,213.41	3,826.17	3,786.48	3,702.15	84.32	44.904		
8,900.00	7,730.00	7,860.52	7,762.63	53.82	31.33	-92.94	-2,213.47	3,826.16	3,696.21	3,612.25	83.96	44.022		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,858.06	7,760.17	53.33	31.33	-92.85	-2,213.54	3,826.16	3,606.45	3,522.87	83.59	43.146		
9,100.00	7,730.00	7,855.60	7,757.71	52.87	31.32	-92.77	-2,213.60	3,826.15	3,517.25	3,434.05	83.20	42.276		
9,200.00	7,730.00	7,853.14	7,755.25	52.44	31.31	-92.68	-2,213.67	3,826.15	3,428.64	3,345.84	82.80	41.411		
9,300.00	7,730.00	7,850.67	7,752.78	52.03	31.30	-92.59	-2,213.73	3,826.14	3,340.67	3,258.29	82.38	40.551		
9,400.00	7,730.00	7,848.21	7,750.32	51.65	31.30	-92.50	-2,213.79	3,826.13	3,253.39	3,171.44	81.95	39.698		
9,500.00	7,730.00	7,845.74	7,747.85	51.29	31.29	-92.42	-2,213.86	3,826.13	3,166.87	3,085.36	81.51	38.852		
9,600.00	7,730.00	7,843.27	7,745.39	50.95	31.28	-92.33	-2,213.92	3,826.12	3,081.16	3,000.10	81.06	38.011		
9,700.00	7,730.00	7,840.80	7,742.92	50.64	31.28	-92.24	-2,213.99	3,826.12	2,996.33	2,915.73	80.60	37.177		
9,800.00	7,730.00	7,838.33	7,740.45	50.35	31.27	-92.15	-2,214.05	3,826.11	2,912.46	2,832.34	80.12	36.350		
9,900.00	7,730.00	7,835.86	7,737.97	50.09	31.26	-92.07	-2,214.12	3,826.11	2,829.64	2,749.99	79.65	35.528		
10,000.00	7,730.00	7,833.39	7,735.50	49.86	31.26	-91.98	-2,214.18	3,826.11	2,747.96	2,668.79	79.16	34.712		
10,100.00	7,730.00	7,830.91	7,733.03	49.65	31.25	-91.89	-2,214.24	3,826.10	2,667.52	2,588.84	78.68	33.902		
10,200.00	7,730.00	7,828.43	7,730.55	49.48	31.24	-91.80	-2,214.31	3,826.10	2,588.45	2,510.24	78.21	33.095		
10,300.00	7,730.00	7,825.96	7,728.07	49.35	31.24	-91.71	-2,214.37	3,826.09	2,510.86	2,433.11	77.75	32.293		
10,400.00	7,730.00	7,823.48	7,725.60	49.27	31.23	-91.62	-2,214.44	3,826.09	2,434.91	2,357.59	77.32	31.492		
10,500.00	7,730.00	7,820.99	7,723.12	49.26	31.22	-91.54	-2,214.50	3,826.09	2,360.75	2,283.83	76.92	30.691		
10,600.00	7,730.00	7,818.51	7,720.63	49.32	31.22	-91.45	-2,214.57	3,826.08	2,288.56	2,211.99	76.57	29.889		
10,700.00	7,730.00	7,816.03	7,718.15	49.51	31.21	-91.36	-2,214.63	3,826.08	2,218.52	2,142.23	76.28	29.083		
10,800.00	7,730.00	7,813.70	7,715.82	49.83	31.20	-91.28	-2,214.69	3,826.08	2,150.85	2,074.76	76.08	28.270		
10,900.00	7,730.00	7,811.37	7,713.49	50.31	31.20	-91.19	-2,214.76	3,826.08	2,085.77	2,009.78	75.99	27.448		
11,000.00	7,730.00	7,809.05	7,711.17	50.96	31.19	-91.11	-2,214.82	3,826.07	2,023.54	1,947.52	76.03	26.616		
11,100.00	7,730.00	7,806.73	7,708.85	51.75	31.18	-91.03	-2,214.88	3,826.07	1,964.43	1,888.21	76.22	25.773		
11,200.00	7,730.00	7,804.41	7,706.54	52.66	31.18	-90.95	-2,214.94	3,826.07	1,908.73	1,832.14	76.60	24.920		
11,300.00	7,730.00	7,802.10	7,704.23	53.67	31.17	-90.86	-2,215.00	3,826.07	1,856.75	1,779.58	77.17	24.059		
11,400.00	7,730.00	7,799.79	7,701.92	54.75	31.16	-90.78	-2,215.06	3,826.07	1,808.80	1,730.83	77.98	23.197		
11,500.00	7,730.00	7,797.49	7,699.62	55.89	31.16	-90.70	-2,215.12	3,826.07	1,765.22	1,686.21	79.01	22.342		
11,600.00	7,730.00	7,795.19	7,697.32	57.07	31.15	-90.62	-2,215.18	3,826.07	1,726.33	1,646.05	80.28	21.505		
11,700.00	7,730.00	7,792.89	7,695.02	58.30	31.14	-90.54	-2,215.24	3,826.07	1,692.46	1,610.69	81.77	20.699		
11,800.00	7,730.00	7,790.60	7,692.73	59.55	31.14	-90.45	-2,215.30	3,826.08	1,663.91	1,580.45	83.46	19.937		
11,900.00	7,730.00	7,788.31	7,690.44	60.84	31.13	-90.37	-2,215.35	3,826.08	1,640.97	1,555.65	85.32	19.233		
12,000.00	7,730.00	7,786.03	7,688.16	62.15	31.13	-90.29	-2,215.41	3,826.08	1,623.87	1,536.56	87.31	18.598		
12,100.00	7,730.00	7,783.75	7,685.88	63.49	31.12	-90.21	-2,215.47	3,826.08	1,612.80	1,523.41	89.39	18.043		
12,200.00	7,730.00	7,781.47	7,683.60	64.85	31.11	-90.13	-2,215.53	3,826.09	1,607.88	1,516.39	91.49	17.575		
12,229.32	7,730.00	7,780.80	7,682.94	65.25	31.11	-90.10	-2,215.55	3,826.09	1,607.61	1,515.50	92.11	17.454 CC, ES		
12,300.00	7,730.00	7,779.20	7,681.33	66.22	31.11	-90.05	-2,215.59	3,826.09	1,609.16	1,515.59	93.57	17.197		
12,400.00	7,730.00	7,776.93	7,679.06	67.62	31.10	-89.97	-2,215.65	3,826.10	1,616.64	1,521.05	95.59	16.912		
12,500.00	7,730.00	7,774.66	7,676.80	69.03	31.09	-89.89	-2,215.71	3,826.10	1,630.22	1,532.72	97.51	16.719		
12,600.00	7,730.00	7,772.40	7,674.54	70.45	31.09	-89.81	-2,215.77	3,826.11	1,649.77	1,550.47	99.29	16.615		
12,700.00	7,730.00	7,770.14	7,672.28	71.90	31.08	-89.72	-2,215.82	3,826.11	1,675.06	1,574.13	100.92	16.597 SF		
12,800.00	7,730.00	7,767.89	7,670.02	73.35	31.08	-89.64	-2,215.88	3,826.12	1,705.84	1,603.45	102.39	16.660		
12,900.00	7,730.00	7,765.64	7,667.77	74.81	31.07	-89.56	-2,215.94	3,826.12	1,741.83	1,638.14	103.69	16.799		
13,000.00	7,730.00	7,763.39	7,665.53	76.29	31.06	-89.48	-2,216.00	3,826.13	1,782.70	1,677.88	104.81	17.008		
13,100.00	7,730.00	7,761.14	7,663.28	77.78	31.06	-89.40	-2,216.05	3,826.14	1,828.13	1,722.35	105.78	17.282		
13,200.00	7,730.00	7,758.90	7,661.05	79.28	31.05	-89.32	-2,216.11	3,826.15	1,877.79	1,771.19	106.60	17.615		
13,300.00	7,730.00	7,756.67	7,658.81	80.79	31.04	-89.24	-2,216.17	3,826.16	1,931.35	1,824.06	107.28	18.002		
13,400.00	7,730.00	7,754.44	7,656.58	82.31	31.04	-89.17	-2,216.23	3,826.16	1,988.49	1,880.65	107.84	18.439		
13,500.00	7,730.00	7,752.21	7,654.35	83.84	31.03	-89.09	-2,216.28	3,826.17	2,048.93	1,940.63	108.29	18.920		
13,600.00	7,730.00	7,749.98	7,652.13	85.37	31.03	-89.01	-2,216.34	3,826.18	2,112.37	2,003.71	108.65	19.442		
13,700.00	7,730.00	7,747.76	7,649.90	86.92	31.02	-88.93	-2,216.40	3,826.19	2,178.55	2,069.62	108.93	20.000		
13,800.00	7,730.00	7,745.54	7,647.69	88.47	31.01	-88.85	-2,216.45	3,826.20	2,247.23	2,138.10	109.13	20.592		
13,900.00	7,730.00	7,743.33	7,645.47	90.03	31.01	-88.77	-2,216.51	3,826.21	2,318.18	2,208.91	109.27	21.215		
14,000.00	7,730.00	7,741.12	7,643.26	91.59	31.00	-88.69	-2,216.57	3,826.22	2,391.22	2,281.85	109.37	21.864		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,738.91	7,641.06	93.16	30.99	-88.61	-2,216.62	3,826.24	2,466.14	2,356.72	109.42	22.539		
14,200.00	7,730.00	7,736.71	7,638.85	94.74	30.99	-88.53	-2,216.68	3,826.25	2,542.79	2,433.36	109.43	23.237		
14,300.00	7,730.00	7,734.51	7,636.66	96.33	30.98	-88.46	-2,216.73	3,826.26	2,621.00	2,511.59	109.41	23.955		
14,400.00	7,730.00	7,732.31	7,634.46	97.92	30.98	-88.38	-2,216.79	3,826.27	2,700.66	2,591.28	109.38	24.692		
14,500.00	7,730.00	7,732.37	7,634.52	99.51	30.98	-88.38	-2,216.79	3,826.27	2,781.62	2,672.31	109.31	25.447		
14,600.00	7,730.00	7,729.68	7,631.83	101.11	30.97	-88.28	-2,216.86	3,826.28	2,863.79	2,754.55	109.24	26.216		
14,700.00	7,730.00	7,726.97	7,629.12	102.72	30.96	-88.19	-2,216.93	3,826.30	2,947.06	2,837.91	109.15	27.000		
14,800.00	7,730.00	7,724.24	7,626.39	104.33	30.95	-88.09	-2,217.00	3,826.32	3,031.34	2,922.29	109.05	27.797		
14,900.00	7,730.00	7,721.48	7,623.64	105.94	30.95	-87.99	-2,217.06	3,826.34	3,116.55	3,007.60	108.95	28.606		
15,000.00	7,730.00	7,718.71	7,620.86	107.56	30.94	-87.89	-2,217.14	3,826.36	3,202.61	3,093.77	108.83	29.427		
15,100.00	7,730.00	7,715.91	7,618.06	109.18	30.93	-87.79	-2,217.21	3,826.38	3,289.45	3,180.74	108.72	30.257		
15,200.00	7,730.00	7,713.09	7,615.24	110.81	30.92	-87.69	-2,217.28	3,826.40	3,377.02	3,268.43	108.60	31.097		
15,300.00	7,730.00	7,710.24	7,612.40	112.44	30.91	-87.59	-2,217.35	3,826.42	3,465.27	3,356.79	108.48	31.945		
15,400.00	7,730.00	7,707.37	7,609.53	114.08	30.91	-87.49	-2,217.43	3,826.44	3,554.13	3,445.78	108.35	32.802		
15,500.00	7,730.00	7,704.48	7,606.64	115.72	30.90	-87.39	-2,217.50	3,826.46	3,643.57	3,535.34	108.23	33.665		
15,600.00	7,730.00	7,701.56	7,603.72	117.36	30.89	-87.28	-2,217.58	3,826.48	3,733.54	3,625.44	108.11	34.536		
15,700.00	7,730.00	7,698.62	7,600.78	119.00	30.88	-87.18	-2,217.65	3,826.50	3,824.01	3,716.03	107.98	35.413		
15,800.00	7,730.00	7,695.66	7,597.82	120.65	30.87	-87.07	-2,217.73	3,826.52	3,914.94	3,807.08	107.86	36.295		
15,900.00	7,730.00	7,692.67	7,594.83	122.30	30.87	-86.97	-2,217.81	3,826.54	4,006.30	3,898.56	107.75	37.183		
16,000.00	7,730.00	7,689.65	7,591.82	123.96	30.86	-86.86	-2,217.89	3,826.56	4,098.07	3,990.44	107.63	38.076		
16,100.00	7,730.00	7,686.61	7,588.77	125.61	30.85	-86.75	-2,217.97	3,826.58	4,190.20	4,082.69	107.51	38.974		
16,200.00	7,730.00	7,683.54	7,585.71	127.27	30.84	-86.64	-2,218.05	3,826.60	4,282.69	4,175.29	107.40	39.876		
16,300.00	7,730.00	7,680.45	7,582.62	128.94	30.83	-86.53	-2,218.13	3,826.62	4,375.51	4,268.22	107.29	40.782		
16,400.00	7,730.00	7,677.33	7,579.50	130.60	30.82	-86.42	-2,218.22	3,826.65	4,468.63	4,361.45	107.18	41.691		
16,500.00	7,730.00	7,674.18	7,576.35	132.27	30.81	-86.31	-2,218.30	3,826.67	4,562.05	4,454.97	107.08	42.605		
16,600.00	7,730.00	7,671.00	7,573.18	133.94	30.80	-86.20	-2,218.39	3,826.69	4,655.73	4,548.76	106.98	43.521		
16,700.00	7,730.00	7,667.80	7,569.98	135.61	30.80	-86.09	-2,218.47	3,826.71	4,749.68	4,642.80	106.88	44.440		
16,800.00	7,730.00	7,664.57	7,566.75	137.28	30.79	-85.97	-2,218.56	3,826.74	4,843.86	4,737.08	106.78	45.362		
16,900.00	7,730.00	7,661.31	7,563.49	138.96	30.78	-85.86	-2,218.65	3,826.76	4,938.27	4,831.58	106.69	46.287		
17,000.00	7,730.00	7,658.02	7,560.20	140.64	30.77	-85.74	-2,218.74	3,826.78	5,032.89	4,926.30	106.60	47.214		
17,100.00	7,730.00	7,654.71	7,556.89	142.32	30.76	-85.62	-2,218.83	3,826.81	5,127.72	5,021.21	106.51	48.144		
17,200.00	7,730.00	7,651.36	7,553.54	144.00	30.75	-85.50	-2,218.93	3,826.83	5,222.74	5,116.31	106.42	49.075		
17,300.00	7,730.00	7,647.98	7,550.17	145.69	30.74	-85.38	-2,219.02	3,826.86	5,317.93	5,211.59	106.34	50.008		
17,400.00	7,730.00	7,644.58	7,546.76	147.37	30.73	-85.26	-2,219.12	3,826.88	5,413.30	5,307.04	106.26	50.943		
17,500.00	7,730.00	7,641.14	7,543.32	149.06	30.72	-85.14	-2,219.21	3,826.91	5,508.84	5,402.65	106.18	51.880		
17,600.00	7,730.00	7,637.67	7,539.86	150.75	30.71	-85.02	-2,219.31	3,826.93	5,604.52	5,498.41	106.11	52.819		
17,700.00	7,730.00	7,634.17	7,536.36	152.44	30.70	-84.90	-2,219.41	3,826.96	5,700.35	5,594.32	106.04	53.758		
17,800.00	7,730.00	7,630.64	7,532.83	154.13	30.69	-84.77	-2,219.51	3,826.98	5,796.33	5,690.36	105.97	54.699		
17,900.00	7,730.00	7,628.00	7,530.19	155.83	30.68	-84.68	-2,219.59	3,827.00	5,892.43	5,786.53	105.90	55.642		
18,000.00	7,730.00	7,628.00	7,530.19	157.52	30.68	-84.68	-2,219.59	3,827.00	5,988.66	5,882.83	105.84	56.585		
18,100.00	7,730.00	7,628.00	7,530.19	159.22	30.68	-84.68	-2,219.59	3,827.00	6,085.01	5,979.24	105.77	57.529		
18,200.00	7,730.00	7,628.00	7,530.19	160.92	30.68	-84.68	-2,219.59	3,827.00	6,181.48	6,075.77	105.71	58.474		
18,300.00	7,730.00	7,628.00	7,530.19	162.62	30.68	-84.68	-2,219.59	3,827.00	6,278.06	6,172.40	105.66	59.420		
18,400.00	7,730.00	7,628.00	7,530.19	164.32	30.68	-84.68	-2,219.59	3,827.00	6,374.74	6,269.14	105.60	60.367		
18,426.22	7,730.00	7,628.00	7,530.19	164.76	30.68	-84.68	-2,219.59	3,827.00	6,400.11	6,294.53	105.59	60.615		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	123.62	-3,056.32	4,596.53	5,520.09					
100.00	100.00	48.13	48.13	0.13	0.08	123.62	-3,056.40	4,596.50	5,519.91	5,519.70	0.21	N/A		
200.00	200.00	148.98	148.98	0.49	0.35	123.63	-3,056.99	4,596.26	5,520.03	5,519.19	0.84	6,549.819		
300.00	300.00	207.31	207.31	0.85	0.56	123.63	-3,057.36	4,596.17	5,520.35	5,518.94	1.41	3,918.316		
400.00	400.00	245.36	245.36	1.21	0.69	123.63	-3,057.70	4,596.58	5,521.74	5,519.84	1.90	2,902.997		
500.00	500.00	273.00	272.98	1.57	0.79	123.63	-3,058.01	4,597.15	5,524.28	5,521.92	2.36	2,342.494		
600.00	600.00	315.51	315.47	1.93	0.94	123.63	-3,058.55	4,598.60	5,527.95	5,525.08	2.87	1,928.850		
700.00	700.00	364.00	363.88	2.29	1.11	123.62	-3,059.22	4,601.16	5,532.91	5,529.52	3.39	1,630.966		
800.00	800.00	364.00	363.88	2.64	1.11	123.62	-3,059.22	4,601.16	5,539.04	5,535.29	3.75	1,476.929		
900.00	900.00	404.28	404.05	3.00	1.26	123.61	-3,059.92	4,604.11	5,546.40	5,542.15	4.25	1,304.945		
1,000.00	1,000.00	455.00	454.51	3.36	1.45	123.59	-3,061.13	4,609.02	5,555.36	5,550.58	4.78	1,161.141		
1,100.00	1,100.00	455.00	454.51	3.72	1.45	123.59	-3,061.13	4,609.02	5,565.23	5,560.09	5.14	1,083.321		
1,200.00	1,200.00	778.65	774.82	4.08	2.71	123.34	-3,055.29	4,644.84	5,572.46	5,565.77	6.69	833.195		
1,300.00	1,299.98	824.00	819.44	4.43	2.88	76.04	-3,054.98	4,652.69	5,582.45	5,575.25	7.21	774.702		
1,400.00	1,399.84	824.00	819.44	4.79	2.88	75.90	-3,054.98	4,652.69	5,589.85	5,582.30	7.55	740.117		
1,500.00	1,499.45	824.00	819.44	5.15	2.88	75.74	-3,054.98	4,652.69	5,598.18	5,590.28	7.90	708.594		
1,600.00	1,598.70	824.00	819.44	5.51	2.88	75.56	-3,054.98	4,652.69	5,607.43	5,599.18	8.25	679.504		
1,700.00	1,697.47	824.00	819.44	5.89	2.88	75.36	-3,054.98	4,652.69	5,617.57	5,608.96	8.61	652.291		
1,800.00	1,795.62	824.00	819.44	6.28	2.88	75.14	-3,054.98	4,652.69	5,628.60	5,619.62	8.98	626.492		
1,900.00	1,893.06	824.00	819.44	6.69	2.88	74.91	-3,054.98	4,652.69	5,640.49	5,631.12	9.37	601.730		
2,000.00	1,989.64	824.00	819.44	7.13	2.88	74.67	-3,054.98	4,652.69	5,653.23	5,643.44	9.79	577.722		
2,100.00	2,085.27	824.00	819.44	7.61	2.88	74.40	-3,054.98	4,652.69	5,666.79	5,656.57	10.22	554.267		
2,200.00	2,179.82	862.36	856.73	8.12	3.07	74.22	-3,057.06	4,661.43	5,680.78	5,669.93	10.85	523.637		
2,300.00	2,273.17	919.00	911.53	8.67	3.35	74.10	-3,060.01	4,675.44	5,695.13	5,683.53	11.59	491.189		
2,400.00	2,365.21	919.00	911.53	9.27	3.35	73.82	-3,060.01	4,675.44	5,709.45	5,697.31	12.14	470.305		
2,500.00	2,455.84	953.41	944.65	9.92	3.53	73.64	-3,061.88	4,684.58	5,724.15	5,711.26	12.89	444.222		
2,580.62	2,527.80	974.31	964.70	10.49	3.65	73.48	-3,063.12	4,690.37	5,736.24	5,722.75	13.49	425.231		
2,600.00	2,544.97	979.31	969.48	10.63	3.67	73.50	-3,063.43	4,691.78	5,739.20	5,725.56	13.64	420.811		
2,700.00	2,633.58	1,013.00	1,001.65	11.37	3.85	73.62	-3,065.64	4,701.53	5,755.23	5,740.78	14.46	398.099		
2,800.00	2,722.19	1,013.00	1,001.65	12.13	3.85	73.62	-3,065.64	4,701.53	5,772.61	5,757.47	15.14	381.275		
2,900.00	2,810.80	1,055.08	1,041.64	12.91	4.11	73.77	-3,068.83	4,714.27	5,791.08	5,775.05	16.04	361.100		
3,000.00	2,899.41	1,107.00	1,090.64	13.71	4.42	73.95	-3,073.58	4,730.74	5,811.17	5,794.17	17.00	341.932		
3,100.00	2,988.02	1,107.00	1,090.64	14.52	4.42	73.95	-3,073.58	4,730.74	5,832.04	5,814.33	17.71	329.400		
3,200.00	3,076.63	1,145.86	1,127.11	15.34	4.67	74.09	-3,077.40	4,743.60	5,854.27	5,835.65	18.62	314.411		
3,300.00	3,165.24	1,189.71	1,168.10	16.16	4.96	74.24	-3,081.58	4,758.60	5,877.45	5,857.88	19.57	300.387		
3,400.00	3,253.85	1,247.56	1,221.95	17.00	5.36	74.43	-3,086.96	4,779.03	5,901.50	5,880.90	20.60	286.496		
3,500.00	3,342.46	1,326.83	1,295.71	17.84	5.91	74.70	-3,094.73	4,807.03	5,926.05	5,904.29	21.76	272.345		
3,600.00	3,431.07	1,424.34	1,386.35	18.69	6.62	75.02	-3,103.84	4,841.82	5,950.79	5,927.75	23.04	258.268		
3,700.00	3,519.68	1,497.00	1,453.80	19.55	7.15	75.25	-3,110.12	4,868.09	5,975.68	5,951.49	24.19	246.990		
3,800.00	3,608.29	1,561.72	1,513.75	20.40	7.64	75.45	-3,115.70	4,891.80	6,001.09	5,975.78	25.31	237.099		
3,900.00	3,696.90	1,628.27	1,575.26	21.26	8.15	75.65	-3,121.70	4,916.52	6,027.23	6,000.78	26.44	227.920		
4,000.00	3,785.51	4,000.00	1,690.83	22.13	26.45	76.03	-3,132.73	4,962.92	6,053.39	6,013.96	39.43	153.517		
4,100.00	3,874.12	1,840.85	1,771.89	23.00	9.79	76.30	-3,140.13	4,995.16	6,079.28	6,050.04	29.23	207.947		
4,200.00	3,962.73	1,915.67	1,841.06	23.87	10.37	76.53	-3,146.84	5,022.90	6,105.77	6,075.33	30.44	200.565		
4,300.00	4,051.34	2,169.76	2,077.62	24.74	12.29	77.30	-3,168.78	5,112.94	6,130.60	6,097.81	32.79	186.986		
4,400.00	4,139.95	2,196.75	2,102.75	25.62	12.50	77.38	-3,170.96	5,122.53	6,155.54	6,121.84	33.71	182.615		
4,500.00	4,228.56	2,252.00	2,153.97	26.49	12.93	77.54	-3,175.56	5,142.74	6,181.57	6,146.76	34.81	177.592		
4,600.00	4,317.17	4,600.00	2,218.41	27.37	31.31	77.75	-3,181.43	5,168.31	6,208.06	6,159.98	48.08	129.114		
4,700.00	4,405.78	2,419.43	2,309.14	28.25	14.23	78.03	-3,189.63	5,204.04	6,234.50	6,197.10	37.40	166.714		
4,800.00	4,494.39	4,800.00	2,414.51	29.13	32.72	78.36	-3,199.13	5,245.34	6,260.94	6,210.00	50.94	122.906		
4,900.00	4,583.00	2,587.48	2,465.08	30.02	15.54	78.51	-3,203.78	5,265.06	6,287.62	6,247.62	40.00	157.181		
5,000.00	4,671.61	2,630.00	2,504.38	30.90	15.88	78.63	-3,207.54	5,280.84	6,315.20	6,274.18	41.02	153.938		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	2,686.06	2,556.03	31.79	16.33	78.79	-3,212.59	5,302.04	6,343.54	6,301.39	42.14	150.519		
5,200.00	4,848.83	2,754.85	2,619.24	32.67	16.89	78.98	-3,218.81	5,328.45	6,372.44	6,329.09	43.36	146.979		
5,300.00	4,937.44	2,892.14	2,745.45	33.56	18.02	79.35	-3,231.31	5,381.02	6,401.54	6,356.47	45.07	142.042		
5,400.00	5,026.05	2,973.17	2,820.17	34.45	18.67	79.57	-3,238.59	5,411.52	6,430.11	6,383.74	46.37	138.658		
5,500.00	5,114.66	3,040.70	2,882.37	35.34	19.22	79.75	-3,244.93	5,437.04	6,459.18	6,411.59	47.58	135.744		
5,600.00	5,203.27	3,102.00	2,938.73	36.23	19.72	79.92	-3,250.66	5,460.46	6,488.68	6,439.93	48.75	133.106		
5,700.00	5,291.88	3,159.50	2,991.44	37.12	20.21	80.07	-3,256.05	5,482.79	6,518.75	6,468.86	49.89	130.664		
5,800.00	5,380.50	3,317.37	3,135.95	38.01	21.53	80.47	-3,270.08	5,544.77	6,548.98	6,497.17	51.80	126.423		
5,900.00	5,469.11	3,385.00	3,198.02	38.90	22.09	80.64	-3,276.15	5,570.93	6,578.85	6,525.82	53.03	124.065		
6,000.00	5,557.72	3,522.25	3,324.40	39.79	23.21	81.00	-3,289.18	5,622.86	6,608.57	6,553.79	54.78	120.647		
6,100.00	5,646.33	3,574.00	3,372.06	40.68	23.63	81.13	-3,293.84	5,642.46	6,638.25	6,582.38	55.88	118.800		
6,200.00	5,734.94	3,617.82	3,412.28	41.58	24.00	81.24	-3,297.82	5,659.40	6,668.67	6,611.75	56.92	117.157		
6,300.00	5,823.55	3,600.00	3,476.43	42.47	24.86	81.41	-3,304.60	5,687.41	6,700.15	6,626.56	57.59	115.049		
6,400.00	5,912.16	3,859.85	3,633.84	43.36	26.04	81.84	-3,320.61	5,754.07	6,730.83	6,670.61	60.23	111.755		
6,500.00	6,000.77	3,973.20	3,738.40	44.26	26.96	82.13	-3,331.90	5,796.38	6,761.08	6,699.27	61.81	109.387		
6,600.00	6,089.38	4,094.61	3,850.33	45.15	27.94	82.43	-3,343.03	5,842.06	6,791.11	6,727.65	63.46	107.015		
6,700.00	6,177.99	4,248.59	3,992.68	46.05	29.18	82.81	-3,356.37	5,899.23	6,820.51	6,755.15	65.37	104.341		
6,800.00	6,266.60	4,598.71	4,274.66	46.94	30.13	90.25	-3,454.53	6,315.26	6,828.92	6,751.83	77.08	88.593		
6,900.00	6,355.21	4,688.77	4,364.72	47.84	30.30	90.60	-3,453.80	6,314.97	6,828.38	6,750.08	78.30	87.210		
6,972.20	6,419.19	4,740.23	4,416.18	48.49	30.40	90.80	-3,453.37	6,314.87	6,828.24	6,749.08	79.16	86.264		
7,000.00	6,443.82	4,759.82	4,435.77	48.74	30.44	90.87	-3,453.19	6,314.89	6,828.26	6,748.77	79.48	85.907		
7,100.00	6,532.43	4,820.39	4,496.34	49.63	30.56	91.10	-3,452.61	6,315.17	6,828.72	6,748.07	80.65	84.668		
7,200.00	6,621.04	4,881.00	4,556.94	50.53	30.69	91.33	-3,452.04	6,315.93	6,829.93	6,748.11	81.82	83.474		
7,300.00	6,709.65	4,947.92	4,623.85	51.42	30.84	91.58	-3,451.38	6,317.18	6,831.77	6,748.77	83.00	82.306		
7,400.00	6,798.26	5,075.76	4,751.64	52.32	31.13	92.06	-3,449.88	6,319.66	6,833.87	6,749.56	84.32	81.047		
7,500.00	6,886.87	5,194.96	4,870.82	53.22	31.39	92.50	-3,447.94	6,321.40	6,835.62	6,750.01	85.61	79.845		
7,600.00	6,975.48	5,297.20	4,973.04	54.12	31.62	92.88	-3,446.22	6,322.71	6,837.53	6,750.67	86.86	78.717		
7,656.30	7,025.36	5,656.30	5,027.09	54.62	32.40	93.08	-3,445.27	6,323.15	6,838.55	6,750.18	88.38	77.380		
7,700.00	7,064.54	5,386.72	5,062.54	55.00	31.81	86.04	-3,444.74	6,323.33	6,838.08	6,750.01	88.06	77.649		
7,750.00	7,110.29	5,413.62	5,089.44	55.40	31.86	75.87	-3,444.50	6,323.40	6,834.45	6,745.87	88.58	77.157		
7,800.00	7,156.67	5,448.00	5,123.82	55.75	31.93	63.66	-3,444.42	6,323.39	6,827.51	6,738.45	89.06	76.662		
7,850.00	7,203.34	5,534.62	5,210.44	56.05	32.10	50.28	-3,444.23	6,323.06	6,817.14	6,727.55	89.59	76.097		
7,900.00	7,249.95	5,695.50	5,371.29	56.30	32.41	37.02	-3,442.33	6,321.38	6,802.92	6,712.73	90.18	75.435		
7,950.00	7,296.14	5,764.29	5,440.06	56.50	32.55	24.67	-3,440.59	6,320.50	6,784.81	6,694.25	90.56	74.921		
8,000.00	7,341.56	5,803.37	5,479.12	56.64	32.63	13.92	-3,439.57	6,320.04	6,763.62	6,672.79	90.83	74.464		
8,050.00	7,385.86	5,823.00	5,498.75	56.74	32.67	4.73	-3,439.06	6,319.83	6,739.55	6,648.54	91.01	74.052		
8,100.00	7,428.71	5,823.00	5,498.75	56.79	32.67	-3.21	-3,439.06	6,319.83	6,712.93	6,621.83	91.10	73.685		
8,150.00	7,469.77	5,823.00	5,498.75	56.80	32.67	-10.27	-3,439.06	6,319.83	6,683.98	6,592.84	91.14	73.339		
8,200.00	7,508.75	5,859.79	5,535.53	56.77	32.75	-16.88	-3,438.34	6,319.61	6,652.50	6,561.31	91.19	72.950		
8,250.00	7,545.33	5,869.21	5,544.95	56.70	32.77	-23.22	-3,438.23	6,319.61	6,619.24	6,528.10	91.14	72.625		
8,300.00	7,579.25	5,878.00	5,553.74	56.59	32.79	-29.55	-3,438.16	6,319.63	6,584.25	6,493.21	91.04	72.320		
8,350.00	7,610.24	5,918.00	5,593.74	56.45	32.87	-36.21	-3,438.13	6,320.00	6,548.06	6,457.10	90.96	71.988		
8,400.00	7,638.06	5,918.00	5,593.74	56.28	32.87	-42.90	-3,438.13	6,320.00	6,510.23	6,419.48	90.75	71.735		
8,450.00	7,662.52	5,918.00	5,593.74	56.09	32.87	-49.82	-3,438.13	6,320.00	6,471.50	6,381.00	90.51	71.504		
8,500.00	7,683.41	5,918.00	5,593.74	55.88	32.87	-56.93	-3,438.13	6,320.00	6,432.14	6,341.92	90.22	71.294		
8,550.00	7,700.59	5,918.00	5,593.74	55.64	32.87	-64.10	-3,438.13	6,320.00	6,392.45	6,302.55	89.90	71.106		
8,600.00	7,713.91	5,918.00	5,593.74	55.39	32.87	-71.15	-3,438.13	6,320.00	6,352.72	6,263.17	89.55	70.940		
8,650.00	7,723.29	5,918.00	5,593.74	55.14	32.87	-77.88	-3,438.13	6,320.00	6,313.27	6,224.09	89.17	70.796		
8,700.00	7,728.64	5,918.00	5,593.74	54.87	32.87	-84.12	-3,438.13	6,320.00	6,274.39	6,185.61	88.78	70.676		
8,740.83	7,730.00	5,918.00	5,593.74	54.65	32.87	-88.75	-3,438.13	6,320.00	6,243.28	6,154.84	88.44	70.596		
8,800.00	7,730.00	5,918.00	5,593.74	54.33	32.87	-88.75	-3,438.13	6,320.00	6,198.83	6,110.90	87.94	70.492		
8,900.00	7,730.00	5,918.00	5,593.74	53.82	32.87	-88.75	-3,438.13	6,320.00	6,124.28	6,037.19	87.09	70.319		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,918.00	7,593.74	53.33	42.87	-88.75	-3,438.13	6,320.00	6,050.47	5,964.22	86.25	70.152		
9,100.00	7,730.00	7,918.00	7,593.74	52.87	42.87	-88.75	-3,438.13	6,320.00	5,977.42	5,892.01	85.41	69.988		
9,200.00	7,730.00	7,918.00	7,593.74	52.44	42.87	-88.75	-3,438.13	6,320.00	5,905.15	5,820.58	84.57	69.827		
9,300.00	7,730.00	7,918.00	7,593.74	52.03	42.87	-88.75	-3,438.13	6,320.00	5,833.71	5,749.97	83.74	69.665		
9,400.00	7,730.00	7,918.00	7,593.74	51.65	42.87	-88.75	-3,438.13	6,320.00	5,763.11	5,680.19	82.92	69.502		
9,500.00	7,730.00	7,918.00	7,593.74	51.29	42.87	-88.75	-3,438.13	6,320.00	5,693.40	5,611.28	82.12	69.334		
9,600.00	7,730.00	7,918.00	7,593.74	50.95	42.87	-88.75	-3,438.13	6,320.00	5,624.60	5,543.27	81.33	69.158		
9,700.00	7,730.00	7,918.00	7,593.74	50.64	42.87	-88.75	-3,438.13	6,320.00	5,556.75	5,476.18	80.57	68.971		
9,800.00	7,730.00	7,918.00	7,593.74	50.35	42.87	-88.75	-3,438.13	6,320.00	5,489.88	5,410.05	79.83	68.769		
9,900.00	7,730.00	7,918.00	7,593.74	50.09	42.87	-88.75	-3,438.13	6,320.00	5,424.03	5,344.90	79.13	68.547		
10,000.00	7,730.00	7,924.37	7,600.11	49.86	42.89	-88.84	-3,438.17	6,320.09	5,359.23	5,280.75	78.48	68.292		
10,100.00	7,730.00	7,924.81	7,600.54	49.65	42.89	-88.85	-3,438.17	6,320.10	5,295.53	5,217.68	77.86	68.017		
10,200.00	7,730.00	7,925.25	7,600.98	49.48	42.89	-88.86	-3,438.18	6,320.10	5,232.97	5,155.68	77.29	67.707		
10,300.00	7,730.00	7,925.68	7,601.41	49.35	42.89	-88.86	-3,438.18	6,320.11	5,171.58	5,094.81	76.78	67.358		
10,400.00	7,730.00	7,926.11	7,601.85	49.27	42.89	-88.87	-3,438.18	6,320.12	5,111.42	5,035.09	76.33	66.962		
10,500.00	7,730.00	7,926.55	7,602.28	49.26	42.90	-88.87	-3,438.18	6,320.12	5,052.52	4,976.56	75.96	66.516		
10,600.00	7,730.00	7,926.98	7,602.72	49.32	42.90	-88.88	-3,438.19	6,320.13	4,994.92	4,919.25	75.67	66.013		
10,700.00	7,730.00	7,927.42	7,603.15	49.51	42.90	-88.89	-3,438.19	6,320.14	4,938.68	4,863.22	75.46	65.450		
10,800.00	7,730.00	7,927.85	7,603.58	49.83	42.90	-88.89	-3,438.19	6,320.14	4,883.83	4,808.49	75.34	64.821		
10,900.00	7,730.00	7,928.28	7,604.02	50.31	42.90	-88.90	-3,438.20	6,320.15	4,830.44	4,755.11	75.33	64.125		
11,000.00	7,730.00	7,928.72	7,604.45	50.96	42.90	-88.90	-3,438.20	6,320.16	4,778.54	4,703.12	75.42	63.360		
11,100.00	7,730.00	7,929.15	7,604.88	51.75	42.90	-88.91	-3,438.20	6,320.16	4,728.19	4,652.57	75.62	62.526		
11,200.00	7,730.00	7,929.58	7,605.31	52.66	42.90	-88.92	-3,438.20	6,320.17	4,679.43	4,603.50	75.94	61.623		
11,300.00	7,730.00	7,930.01	7,605.75	53.67	42.90	-88.92	-3,438.21	6,320.18	4,632.32	4,555.95	76.37	60.656		
11,400.00	7,730.00	7,930.44	7,606.18	54.75	42.90	-88.93	-3,438.21	6,320.18	4,586.90	4,509.98	76.93	59.627		
11,500.00	7,730.00	7,930.87	7,606.61	55.89	42.91	-88.93	-3,438.21	6,320.19	4,543.24	4,465.63	77.60	58.544		
11,600.00	7,730.00	7,931.31	7,607.04	57.07	42.91	-88.94	-3,438.21	6,320.20	4,501.37	4,422.96	78.40	57.413		
11,700.00	7,730.00	7,931.74	7,607.47	58.30	42.91	-88.95	-3,438.22	6,320.20	4,461.35	4,382.02	79.32	56.242		
11,800.00	7,730.00	7,932.17	7,607.90	59.55	42.91	-88.95	-3,438.22	6,320.21	4,423.22	4,342.86	80.36	55.039		
11,900.00	7,730.00	7,932.60	7,608.33	60.84	42.91	-88.96	-3,438.22	6,320.22	4,387.05	4,305.53	81.52	53.814		
12,000.00	7,730.00	7,933.03	7,608.76	62.15	42.91	-88.96	-3,438.22	6,320.22	4,352.88	4,270.08	82.79	52.576		
12,100.00	7,730.00	7,933.45	7,609.19	63.49	42.91	-88.97	-3,438.23	6,320.23	4,320.74	4,236.57	84.17	51.333		
12,200.00	7,730.00	7,933.88	7,609.62	64.85	42.91	-88.98	-3,438.23	6,320.24	4,290.70	4,205.05	85.65	50.094		
12,300.00	7,730.00	7,934.31	7,610.04	66.22	42.91	-88.98	-3,438.23	6,320.24	4,262.80	4,175.56	87.23	48.867		
12,400.00	7,730.00	7,934.74	7,610.47	67.62	42.92	-88.99	-3,438.23	6,320.25	4,237.07	4,148.16	88.90	47.659		
12,500.00	7,730.00	7,935.17	7,610.90	69.03	42.92	-88.99	-3,438.24	6,320.26	4,213.55	4,122.89	90.66	46.476		
12,600.00	7,730.00	7,935.59	7,611.33	70.45	42.92	-89.00	-3,438.24	6,320.27	4,192.30	4,099.80	92.50	45.324		
12,700.00	7,730.00	7,936.02	7,611.75	71.90	42.92	-89.01	-3,438.24	6,320.27	4,173.32	4,078.92	94.40	44.208		
12,800.00	7,730.00	7,936.45	7,612.18	73.35	42.92	-89.01	-3,438.24	6,320.28	4,156.67	4,060.30	96.37	43.132		
12,900.00	7,730.00	7,936.87	7,612.61	74.81	42.92	-89.02	-3,438.25	6,320.29	4,142.37	4,043.98	98.39	42.099		
13,000.00	7,730.00	7,937.30	7,613.03	76.29	42.92	-89.02	-3,438.25	6,320.29	4,130.44	4,029.97	100.47	41.112		
13,100.00	7,730.00	7,937.73	7,613.46	77.78	42.92	-89.03	-3,438.25	6,320.30	4,120.90	4,018.32	102.58	40.172		
13,200.00	7,730.00	7,938.15	7,613.88	79.28	42.92	-89.04	-3,438.25	6,320.31	4,113.77	4,009.05	104.73	39.281		
13,300.00	7,730.00	7,938.58	7,614.31	80.79	42.92	-89.04	-3,438.26	6,320.31	4,109.07	4,002.17	106.90	38.440		
13,400.00	7,730.00	7,939.00	7,614.73	82.31	42.93	-89.05	-3,438.26	6,320.32	4,106.79	3,997.71	109.08	37.648		
13,443.52	7,730.00	7,939.19	7,614.92	82.97	42.93	-89.05	-3,438.26	6,320.32	4,106.56	3,996.52	110.04	37.319 CC		
13,500.00	7,730.00	7,939.43	7,615.16	83.84	42.93	-89.05	-3,438.26	6,320.33	4,106.95	3,995.67	111.28	36.906 ES		
13,600.00	7,730.00	7,939.85	7,615.58	85.37	42.93	-89.06	-3,438.27	6,320.34	4,109.54	3,996.06	113.48	36.214		
13,700.00	7,730.00	7,940.27	7,616.01	86.92	42.93	-89.07	-3,438.27	6,320.34	4,114.56	3,998.89	115.67	35.570		
13,800.00	7,730.00	7,940.70	7,616.43	88.47	42.93	-89.07	-3,438.27	6,320.35	4,122.00	4,004.15	117.86	34.975		
13,900.00	7,730.00	7,941.12	7,616.85	90.03	42.93	-89.08	-3,438.27	6,320.36	4,131.85	4,011.83	120.02	34.426		
14,000.00	7,730.00	7,941.54	7,617.28	91.59	42.93	-89.08	-3,438.28	6,320.36	4,144.09	4,021.93	122.16	33.923		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,941.97	7,617.70	93.16	42.93	-89.09	-3,438.28	6,320.37	4,158.70	4,034.43	124.27	33.464		
14,200.00	7,730.00	7,942.39	7,618.12	94.74	42.93	-89.09	-3,438.28	6,320.38	4,175.65	4,049.30	126.35	33.048		
14,300.00	7,730.00	7,942.81	7,618.54	96.33	42.94	-89.10	-3,438.28	6,320.38	4,194.92	4,066.54	128.39	32.674		
14,400.00	7,730.00	7,943.23	7,618.96	97.92	42.94	-89.11	-3,438.29	6,320.39	4,216.48	4,086.10	130.38	32.340		
14,500.00	7,730.00	7,943.65	7,619.38	99.51	42.94	-89.11	-3,438.29	6,320.40	4,240.28	4,107.95	132.32	32.045		
14,600.00	7,730.00	7,944.07	7,619.81	101.11	42.94	-89.12	-3,438.29	6,320.41	4,266.29	4,132.07	134.22	31.786		
14,700.00	7,730.00	7,944.49	7,620.23	102.72	42.94	-89.12	-3,438.29	6,320.41	4,294.48	4,158.42	136.06	31.563		
14,800.00	7,730.00	7,944.91	7,620.65	104.33	42.94	-89.13	-3,438.30	6,320.42	4,324.79	4,186.95	137.84	31.375		
14,900.00	7,730.00	7,945.33	7,621.07	105.94	42.94	-89.14	-3,438.30	6,320.43	4,357.19	4,217.62	139.57	31.218		
15,000.00	7,730.00	7,945.75	7,621.49	107.56	42.94	-89.14	-3,438.30	6,320.44	4,391.63	4,250.39	141.24	31.094		
15,100.00	7,730.00	7,946.17	7,621.90	109.18	42.94	-89.15	-3,438.30	6,320.44	4,428.06	4,285.21	142.85	30.999		
15,200.00	7,730.00	7,946.59	7,622.32	110.81	42.94	-89.15	-3,438.31	6,320.45	4,466.43	4,322.04	144.39	30.933		
15,300.00	7,730.00	7,947.01	7,622.74	112.44	42.95	-89.16	-3,438.31	6,320.46	4,506.69	4,360.82	145.88	30.894		
15,400.00	7,730.00	7,947.43	7,623.16	114.08	42.95	-89.17	-3,438.31	6,320.46	4,548.80	4,401.50	147.30	30.881 SF		
15,500.00	7,730.00	7,947.85	7,623.58	115.72	42.95	-89.17	-3,438.31	6,320.47	4,592.70	4,444.03	148.66	30.893		
15,600.00	7,730.00	7,948.26	7,624.00	117.36	42.95	-89.18	-3,438.32	6,320.48	4,638.33	4,488.37	149.97	30.929		
15,700.00	7,730.00	7,948.68	7,624.41	119.00	42.95	-89.18	-3,438.32	6,320.49	4,685.66	4,534.45	151.21	30.988		
15,800.00	7,730.00	7,949.10	7,624.83	120.65	42.95	-89.19	-3,438.32	6,320.49	4,734.63	4,582.23	152.40	31.068		
15,900.00	7,730.00	7,949.52	7,625.25	122.30	42.95	-89.19	-3,438.32	6,320.50	4,785.18	4,631.66	153.52	31.169		
16,000.00	7,730.00	7,949.93	7,625.66	123.96	42.95	-89.20	-3,438.33	6,320.51	4,837.28	4,682.68	154.60	31.290		
16,100.00	7,730.00	7,950.35	7,626.08	125.61	42.95	-89.21	-3,438.33	6,320.52	4,890.86	4,735.25	155.62	31.429		
16,200.00	7,730.00	7,950.76	7,626.49	127.27	42.95	-89.21	-3,438.33	6,320.52	4,945.89	4,789.31	156.58	31.587		
16,300.00	7,730.00	7,951.18	7,626.91	128.94	42.96	-89.22	-3,438.33	6,320.53	5,002.31	4,844.81	157.50	31.761		
16,400.00	7,730.00	7,951.59	7,627.32	130.60	42.96	-89.22	-3,438.34	6,320.54	5,060.08	4,901.72	158.36	31.952		
16,500.00	7,730.00	7,952.01	7,627.74	132.27	42.96	-89.23	-3,438.34	6,320.54	5,119.15	4,959.97	159.18	32.159		
16,600.00	7,730.00	7,952.42	7,628.15	133.94	42.96	-89.23	-3,438.34	6,320.55	5,179.48	5,019.52	159.95	32.381		
16,700.00	7,730.00	7,952.84	7,628.57	135.61	42.96	-89.24	-3,438.34	6,320.56	5,241.02	5,080.33	160.68	32.617		
16,800.00	7,730.00	7,953.25	7,628.98	137.28	42.96	-89.25	-3,438.35	6,320.57	5,303.73	5,142.36	161.37	32.866		
16,900.00	7,730.00	7,953.67	7,629.40	138.96	42.96	-89.25	-3,438.35	6,320.57	5,367.57	5,205.55	162.02	33.129		
17,000.00	7,730.00	7,954.08	7,629.81	140.64	42.96	-89.26	-3,438.35	6,320.58	5,432.50	5,269.87	162.63	33.404		
17,100.00	7,730.00	7,954.49	7,630.22	142.32	42.96	-89.26	-3,438.35	6,320.59	5,498.49	5,335.29	163.20	33.691		
17,200.00	7,730.00	7,954.90	7,630.63	144.00	42.97	-89.27	-3,438.36	6,320.60	5,565.49	5,401.75	163.74	33.990		
17,300.00	7,730.00	7,955.32	7,631.05	145.69	42.97	-89.28	-3,438.36	6,320.60	5,633.46	5,469.22	164.24	34.300		
17,400.00	7,730.00	7,955.73	7,631.46	147.37	42.97	-89.28	-3,438.36	6,320.61	5,702.39	5,537.67	164.72	34.619		
17,500.00	7,730.00	7,956.14	7,631.87	149.06	42.97	-89.29	-3,438.36	6,320.62	5,772.22	5,607.06	165.16	34.949		
17,600.00	7,730.00	7,956.55	7,632.28	150.75	42.97	-89.29	-3,438.37	6,320.63	5,842.92	5,677.35	165.57	35.289		
17,700.00	7,730.00	7,956.96	7,632.69	152.44	42.97	-89.30	-3,438.37	6,320.63	5,914.48	5,748.52	165.96	35.638		
17,800.00	7,730.00	7,957.37	7,633.10	154.13	42.97	-89.30	-3,438.37	6,320.64	5,986.84	5,820.52	166.32	35.996		
17,900.00	7,730.00	7,957.78	7,633.51	155.83	42.97	-89.31	-3,438.37	6,320.65	6,060.00	5,893.34	166.66	36.362		
18,000.00	7,730.00	7,958.19	7,633.92	157.52	42.97	-89.32	-3,438.37	6,320.66	6,133.91	5,966.94	166.97	36.736		
18,100.00	7,730.00	7,958.60	7,634.33	159.22	42.97	-89.32	-3,438.38	6,320.66	6,208.55	6,041.29	167.27	37.118		
18,200.00	7,730.00	7,959.01	7,634.74	160.92	42.98	-89.33	-3,438.38	6,320.67	6,283.90	6,116.36	167.54	37.507		
18,300.00	7,730.00	7,959.42	7,635.15	162.62	42.98	-89.33	-3,438.38	6,320.68	6,359.93	6,192.14	167.79	37.904		
18,400.00	7,730.00	7,959.83	7,635.56	164.32	42.98	-89.34	-3,438.38	6,320.69	6,436.61	6,268.59	168.02	38.308		
18,426.22	7,730.00	7,959.94	7,635.67	164.76	42.98	-89.34	-3,438.39	6,320.69	6,456.82	6,288.74	168.08	38.414		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	81.96	771.80	5,465.20	5,520.16					
100.00	100.00	10.00	10.00	0.13	0.08	81.96	771.80	5,465.20	5,519.43	5,519.22	0.21	N/A		
200.00	200.00	110.00	110.00	0.49	0.95	81.96	771.80	5,465.20	5,519.43	5,517.99	1.44	3,822.045		
300.00	300.00	210.00	210.00	0.85	2.70	81.96	771.80	5,465.20	5,519.43	5,515.88	3.55	1,555.687		
400.00	400.00	310.00	310.00	1.21	4.44	81.96	771.80	5,465.20	5,519.43	5,513.78	5.65	976.595		
500.00	500.00	410.00	410.00	1.57	6.19	81.96	771.80	5,465.20	5,519.43	5,511.67	7.76	711.679		
600.00	600.00	510.00	510.00	1.93	7.93	81.96	771.80	5,465.20	5,519.43	5,509.57	9.86	559.819		
700.00	700.00	610.00	610.00	2.29	9.68	81.96	771.80	5,465.20	5,519.43	5,507.47	11.96	461.371		
800.00	800.00	710.00	710.00	2.64	11.42	81.96	771.80	5,465.20	5,519.43	5,505.36	14.07	392.370		
900.00	900.00	810.00	810.00	3.00	13.17	81.96	771.80	5,465.20	5,519.43	5,503.26	16.17	341.323		
1,000.00	1,000.00	910.00	910.00	3.36	14.91	81.96	771.80	5,465.20	5,519.43	5,501.16	18.27	302.029		
1,100.00	1,100.00	1,010.00	1,010.00	3.72	16.66	81.96	771.80	5,465.20	5,519.43	5,499.05	20.38	270.848		
1,200.00	1,200.00	1,110.00	1,110.00	4.08	18.40	81.96	771.80	5,465.20	5,519.43	5,496.95	22.48	245.503		
1,300.00	1,299.98	1,209.98	1,209.98	4.43	20.15	34.87	771.80	5,465.20	5,518.00	5,493.41	24.58	224.469		
1,400.00	1,399.84	1,309.84	1,309.84	4.79	21.89	34.95	771.80	5,465.20	5,513.70	5,487.02	26.68	206.670		
1,500.00	1,499.45	1,409.45	1,409.45	5.15	23.63	35.08	771.80	5,465.20	5,506.56	5,477.78	28.77	191.386		
1,600.00	1,598.70	1,508.70	1,508.70	5.51	25.36	35.27	771.80	5,465.20	5,496.57	5,465.71	30.86	178.107		
1,700.00	1,697.47	1,607.47	1,607.47	5.89	27.09	35.51	771.80	5,465.20	5,483.77	5,450.82	32.95	166.452		
1,800.00	1,795.62	1,705.62	1,705.62	6.28	28.80	35.81	771.80	5,465.20	5,468.17	5,433.14	35.02	156.126		
1,900.00	1,893.06	1,803.06	1,803.06	6.69	30.50	36.17	771.80	5,465.20	5,449.80	5,412.71	37.10	146.904		
2,000.00	1,989.64	1,900.36	1,899.64	7.13	32.20	36.59	771.80	5,465.20	5,428.72	5,389.54	39.18	138.563		
2,100.00	2,085.27	2,004.73	1,995.27	7.61	34.02	37.06	771.80	5,465.20	5,404.94	5,363.55	41.40	130.568		
2,200.00	2,179.82	2,089.82	2,089.82	8.12	35.51	37.60	771.80	5,465.20	5,378.54	5,335.25	43.29	124.242		
2,300.00	2,273.17	2,183.17	2,183.17	8.67	37.13	38.20	771.80	5,465.20	5,349.55	5,304.20	45.35	117.967		
2,400.00	2,365.21	2,275.21	2,275.21	9.27	38.74	38.87	771.80	5,465.20	5,318.04	5,270.63	47.40	112.188		
2,500.00	2,455.84	2,365.84	2,365.84	9.92	40.32	39.60	771.80	5,465.20	5,284.07	5,234.61	49.46	106.843		
2,580.62	2,527.80	2,437.80	2,437.80	10.49	41.58	40.25	771.80	5,465.20	5,254.94	5,203.82	51.11	102.811		
2,600.00	2,544.97	2,454.97	2,454.97	10.63	41.88	40.31	771.80	5,465.20	5,247.75	5,196.24	51.51	101.875		
2,700.00	2,633.58	2,543.58	2,543.58	11.37	43.43	40.62	771.80	5,465.20	5,210.78	5,157.21	53.57	97.263		
2,800.00	2,722.19	2,632.19	2,632.19	12.13	44.97	40.94	771.80	5,465.20	5,173.96	5,118.30	55.66	92.963		
2,900.00	2,810.80	2,720.80	2,720.80	12.91	46.52	41.26	771.80	5,465.20	5,137.29	5,079.53	57.75	88.950		
3,000.00	2,899.41	2,809.41	2,809.41	13.71	48.06	41.59	771.80	5,465.20	5,100.78	5,040.91	59.87	85.199		
3,100.00	2,988.02	2,901.98	2,898.02	14.52	49.68	41.92	771.80	5,465.20	5,064.42	5,002.36	62.07	81.595		
3,200.00	3,076.63	2,986.63	2,986.63	15.34	51.16	42.26	771.80	5,465.20	5,028.24	4,964.10	64.14	78.393		
3,300.00	3,165.24	3,075.24	3,075.24	16.16	52.70	42.60	771.80	5,465.20	4,992.22	4,925.92	66.30	75.301		
3,400.00	3,253.85	3,163.85	3,163.85	17.00	54.25	42.94	771.80	5,465.20	4,956.37	4,887.91	68.46	72.394		
3,500.00	3,342.46	3,252.46	3,252.46	17.84	55.80	43.29	771.80	5,465.20	4,920.70	4,850.06	70.64	69.656		
3,600.00	3,431.07	3,341.07	3,341.07	18.69	57.34	43.64	771.80	5,465.20	4,885.21	4,812.38	72.83	67.074		
3,700.00	3,519.68	3,429.68	3,429.68	19.55	58.89	44.00	771.80	5,465.20	4,849.90	4,774.87	75.03	64.636		
3,800.00	3,608.29	3,518.29	3,518.29	20.40	60.44	44.36	771.80	5,465.20	4,814.78	4,737.54	77.24	62.332		
3,900.00	3,696.90	3,606.90	3,606.90	21.26	61.98	44.73	771.80	5,465.20	4,779.85	4,700.39	79.46	60.150		
4,000.00	3,785.51	3,704.49	3,695.51	22.13	63.69	45.10	771.80	5,465.20	4,745.12	4,663.27	81.85	57.972		
4,100.00	3,874.12	3,784.12	3,784.12	23.00	65.08	45.48	771.80	5,465.20	4,710.58	4,626.65	83.94	56.122		
4,200.00	3,962.73	3,872.73	3,872.73	23.87	66.62	45.86	771.80	5,465.20	4,676.25	4,590.07	86.18	54.259		
4,300.00	4,051.34	3,961.34	3,961.34	24.74	68.17	46.25	771.80	5,465.20	4,642.13	4,553.69	88.44	52.487		
4,400.00	4,139.95	4,049.95	4,049.95	25.62	69.72	46.64	771.80	5,465.20	4,608.22	4,517.51	90.71	50.802		
4,500.00	4,228.56	4,138.56	4,138.56	26.49	71.26	47.04	771.80	5,465.20	4,574.54	4,481.55	92.99	49.195		
4,600.00	4,317.17	4,227.17	4,227.17	27.37	72.81	47.44	771.80	5,465.20	4,541.07	4,445.80	95.27	47.664		
4,700.00	4,405.78	4,315.78	4,315.78	28.25	74.36	47.85	771.80	5,465.20	4,507.83	4,410.26	97.57	46.202		
4,800.00	4,494.39	4,404.39	4,404.39	29.13	75.90	48.26	771.80	5,465.20	4,474.83	4,374.96	99.87	44.806		
4,900.00	4,583.00	4,507.00	4,493.00	30.02	77.69	48.68	771.80	5,465.20	4,442.06	4,339.63	102.43	43.368		
5,000.00	4,671.61	4,581.61	4,581.61	30.90	79.00	49.10	771.80	5,465.20	4,409.54	4,305.03	104.50	42.195		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,670.22	4,670.22	31.79	80.54	49.53	771.80	5,465.20	4,377.26	4,270.43	106.83	40.973		
5,200.00	4,848.83	4,758.83	4,758.83	32.67	82.09	49.97	771.80	5,465.20	4,345.24	4,236.07	109.17	39.801		
5,300.00	4,937.44	4,847.44	4,847.44	33.56	83.64	50.41	771.80	5,465.20	4,313.49	4,201.97	111.52	38.679		
5,400.00	5,026.05	4,936.05	4,936.05	34.45	85.18	50.85	771.80	5,465.20	4,281.99	4,168.12	113.88	37.602		
5,500.00	5,114.66	5,024.66	5,024.66	35.34	86.73	51.30	771.80	5,465.20	4,250.77	4,134.53	116.24	36.568		
5,600.00	5,203.27	5,113.27	5,113.27	36.23	88.27	51.76	771.80	5,465.20	4,219.83	4,101.21	118.62	35.575		
5,700.00	5,291.88	5,201.88	5,201.88	37.12	89.82	52.22	771.80	5,465.20	4,189.17	4,068.17	121.00	34.621		
5,800.00	5,380.50	5,309.51	5,290.50	38.01	91.70	52.69	771.80	5,465.20	4,158.81	4,035.08	123.72	33.613		
5,900.00	5,469.11	5,379.11	5,379.11	38.90	92.91	53.17	771.80	5,465.20	4,128.74	4,002.94	125.79	32.821		
6,000.00	5,557.72	5,467.72	5,467.72	39.79	94.46	53.65	771.80	5,465.20	4,098.97	3,970.76	128.20	31.972		
6,100.00	5,646.33	5,556.33	5,556.33	40.68	96.01	54.14	771.80	5,465.20	4,069.51	3,938.89	130.62	31.155		
6,200.00	5,734.94	5,644.94	5,644.94	41.58	97.55	54.63	771.80	5,465.20	4,040.37	3,907.32	133.05	30.367		
6,300.00	5,823.55	5,733.55	5,733.55	42.47	99.10	55.13	771.80	5,465.20	4,011.56	3,876.07	135.49	29.609		
6,400.00	5,912.16	5,822.16	5,822.16	43.36	100.65	55.63	771.80	5,465.20	3,983.07	3,845.14	137.93	28.877		
6,500.00	6,000.77	5,910.77	5,910.77	44.26	102.19	56.15	771.80	5,465.20	3,954.92	3,814.54	140.39	28.172		
6,600.00	6,089.38	6,000.62	5,999.38	45.15	103.76	56.66	771.80	5,465.20	3,927.12	3,784.25	142.87	27.487		
6,700.00	6,177.99	6,087.99	6,087.99	46.05	105.29	57.19	771.80	5,465.20	3,899.67	3,754.35	145.32	26.835		
6,800.00	6,266.60	6,176.60	6,176.60	46.94	106.83	57.72	771.80	5,465.20	3,872.58	3,724.78	147.80	26.202		
6,900.00	6,355.21	6,265.21	6,265.21	47.84	108.38	58.25	771.80	5,465.20	3,845.86	3,695.58	150.29	25.590		
7,000.00	6,443.82	6,353.82	6,353.82	48.74	109.93	58.80	771.80	5,465.20	3,819.52	3,666.73	152.78	25.000		
7,100.00	6,532.43	6,442.43	6,442.43	49.63	111.47	59.35	771.80	5,465.20	3,793.55	3,638.27	155.29	24.429		
7,200.00	6,621.04	6,531.04	6,531.04	50.53	113.02	59.90	771.80	5,465.20	3,767.98	3,610.18	157.80	23.878		
7,300.00	6,709.65	6,619.65	6,619.65	51.42	114.57	60.46	771.80	5,465.20	3,742.81	3,582.49	160.32	23.346		
7,400.00	6,798.26	6,708.26	6,708.26	52.32	116.11	61.03	771.80	5,465.20	3,718.05	3,555.20	162.85	22.831		
7,500.00	6,886.87	6,803.13	6,796.87	53.22	117.77	61.61	771.80	5,465.20	3,693.70	3,528.20	165.50	22.319		
7,600.00	6,975.48	6,885.48	6,885.48	54.12	119.21	62.19	771.80	5,465.20	3,669.77	3,501.84	167.93	21.853		
7,656.30	7,025.36	6,935.36	6,935.36	54.62	120.08	62.52	771.80	5,465.20	3,656.49	3,487.13	169.37	21.589		
7,700.00	7,064.54	6,974.54	6,974.54	55.00	120.76	62.85	771.80	5,465.20	3,645.65	3,475.19	170.46	21.387		
7,750.00	7,110.29	7,020.29	7,020.29	55.40	121.56	63.28	771.80	5,465.20	3,631.84	3,460.18	171.66	21.157		
7,800.00	7,156.67	7,066.67	7,066.67	55.75	122.37	63.71	771.80	5,465.20	3,616.58	3,443.79	172.79	20.930		
7,850.00	7,203.34	7,113.34	7,113.34	56.05	123.18	64.14	771.80	5,465.20	3,599.96	3,426.12	173.84	20.708		
7,900.00	7,249.95	7,159.95	7,159.95	56.30	124.00	64.57	771.80	5,465.20	3,582.07	3,407.26	174.81	20.492		
7,950.00	7,296.14	7,206.14	7,206.14	56.50	124.80	-12.08	771.80	5,465.20	3,563.04	3,387.36	175.68	20.281		
8,000.00	7,341.56	7,251.56	7,251.56	56.64	125.59	-23.62	771.80	5,465.20	3,543.03	3,366.58	176.46	20.079		
8,050.00	7,385.86	7,304.14	7,295.86	56.74	126.51	-33.43	771.80	5,465.20	3,522.21	3,344.94	177.28	19.868		
8,100.00	7,428.71	7,338.71	7,338.71	56.79	127.12	-41.80	771.80	5,465.20	3,500.77	3,323.07	177.71	19.700		
8,150.00	7,469.77	7,379.77	7,379.77	56.80	127.83	-49.05	771.80	5,465.20	3,478.93	3,300.76	178.18	19.525		
8,200.00	7,508.75	7,418.75	7,418.75	56.77	128.51	-55.41	771.80	5,465.20	3,456.91	3,278.38	178.54	19.363		
8,250.00	7,545.33	7,455.33	7,455.33	56.70	129.15	-61.07	771.80	5,465.20	3,434.96	3,256.17	178.79	19.213		
8,300.00	7,579.25	7,489.25	7,489.25	56.59	129.74	-66.13	771.80	5,465.20	3,413.33	3,234.40	178.93	19.076		
8,350.00	7,610.24	7,520.24	7,520.24	56.45	130.28	-70.66	771.80	5,465.20	3,392.27	3,213.30	178.96	18.955		
8,400.00	7,638.06	7,548.06	7,548.06	56.28	130.77	-74.70	771.80	5,465.20	3,372.03	3,193.14	178.89	18.849		
8,450.00	7,662.52	7,572.52	7,572.52	56.09	131.20	-78.27	771.80	5,465.20	3,352.88	3,174.16	178.72	18.761		
8,500.00	7,683.41	7,606.59	7,593.41	55.88	131.79	-81.38	771.80	5,465.20	3,335.06	3,156.38	178.68	18.665		
8,550.00	7,700.59	7,610.59	7,610.59	55.64	131.86	-84.03	771.80	5,465.20	3,318.78	3,140.69	178.09	18.635		
8,600.00	7,713.91	7,623.91	7,623.91	55.39	132.09	-86.22	771.80	5,465.20	3,304.26	3,126.61	177.64	18.600		
8,650.00	7,723.29	7,633.29	7,633.29	55.14	132.26	-87.97	771.80	5,465.20	3,291.67	3,114.55	177.12	18.584 SF		
8,700.00	7,728.64	7,638.64	7,638.64	54.87	132.35	-89.27	771.80	5,465.20	3,281.18	3,104.65	176.53	18.587		
8,740.83	7,730.00	7,640.00	7,640.00	54.65	132.37	-90.00	771.80	5,465.20	3,274.24	3,098.25	176.00	18.604		
8,800.00	7,730.00	7,640.00	7,640.00	54.33	132.37	-90.00	771.80	5,465.20	3,265.81	3,090.60	175.22	18.639		
8,900.00	7,730.00	7,640.00	7,640.00	53.82	132.37	-90.00	771.80	5,465.20	3,253.96	3,079.98	173.98	18.703		
9,000.00	7,730.00	7,640.00	7,640.00	53.33	132.37	-90.00	771.80	5,465.20	3,245.15	3,072.29	172.86	18.774		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,640.00	7,640.00	52.87	132.37	-90.00	771.80	5,465.20	3,239.40	3,067.53	171.87	18.848		
9,200.00	7,730.00	7,640.00	7,640.00	52.44	132.37	-90.00	771.80	5,465.20	3,236.73	3,065.70	171.03	18.925 ES		
9,236.40	7,730.00	7,640.00	7,640.00	52.29	132.37	-90.00	771.80	5,465.20	3,236.52	3,065.75	170.78	18.952 CC		
9,300.00	7,730.00	7,640.00	7,640.00	52.03	132.37	-90.00	771.80	5,465.20	3,237.15	3,066.78	170.36	19.001		
9,400.00	7,730.00	7,640.00	7,640.00	51.65	132.37	-90.00	771.80	5,465.20	3,240.66	3,070.78	169.88	19.077		
9,500.00	7,730.00	7,640.00	7,640.00	51.29	132.37	-90.00	771.80	5,465.20	3,247.24	3,077.66	169.58	19.149		
9,600.00	7,730.00	7,640.00	7,640.00	50.95	132.37	-90.00	771.80	5,465.20	3,256.88	3,087.41	169.47	19.218		
9,700.00	7,730.00	7,640.00	7,640.00	50.64	132.37	-90.00	771.80	5,465.20	3,269.56	3,100.00	169.56	19.283		
9,800.00	7,730.00	7,640.00	7,640.00	50.35	132.37	-90.00	771.80	5,465.20	3,285.23	3,115.40	169.83	19.344		
9,900.00	7,730.00	7,640.00	7,640.00	50.09	132.37	-90.00	771.80	5,465.20	3,303.85	3,133.57	170.28	19.402		
10,000.00	7,730.00	7,640.00	7,640.00	49.86	132.37	-90.00	771.80	5,465.20	3,325.38	3,154.49	170.89	19.459		
10,100.00	7,730.00	7,640.00	7,640.00	49.65	132.37	-90.00	771.80	5,465.20	3,349.76	3,178.12	171.64	19.516		
10,200.00	7,730.00	7,640.00	7,640.00	49.48	132.37	-90.00	771.80	5,465.20	3,376.92	3,204.40	172.52	19.574		
10,300.00	7,730.00	7,640.00	7,640.00	49.35	132.37	-90.00	771.80	5,465.20	3,406.81	3,233.30	173.51	19.635		
10,400.00	7,730.00	7,640.00	7,640.00	49.27	132.37	-90.00	771.80	5,465.20	3,439.34	3,264.76	174.58	19.700		
10,500.00	7,730.00	7,640.00	7,640.00	49.26	132.37	-90.00	771.80	5,465.20	3,474.45	3,298.72	175.73	19.772		
10,600.00	7,730.00	7,640.00	7,640.00	49.32	132.37	-90.00	771.80	5,465.20	3,512.05	3,335.12	176.93	19.850		
10,700.00	7,730.00	7,640.00	7,640.00	49.51	132.37	-90.00	771.80	5,465.20	3,552.07	3,373.91	178.17	19.937		
10,800.00	7,730.00	7,640.00	7,640.00	49.83	132.37	-90.00	771.80	5,465.20	3,594.43	3,415.00	179.43	20.032		
10,900.00	7,730.00	7,640.00	7,640.00	50.31	132.37	-90.00	771.80	5,465.20	3,639.05	3,458.33	180.71	20.137		
11,000.00	7,730.00	7,640.00	7,640.00	50.96	132.37	-90.00	771.80	5,465.20	3,685.84	3,503.84	182.00	20.252		
11,100.00	7,730.00	7,640.00	7,640.00	51.75	132.37	-90.00	771.80	5,465.20	3,734.72	3,551.44	183.28	20.377		
11,200.00	7,730.00	7,640.00	7,640.00	52.66	132.37	-90.00	771.80	5,465.20	3,785.61	3,601.06	184.55	20.512		
11,300.00	7,730.00	7,640.00	7,640.00	53.67	132.37	-90.00	771.80	5,465.20	3,838.43	3,652.62	185.81	20.658		
11,400.00	7,730.00	7,640.00	7,640.00	54.75	132.37	-90.00	771.80	5,465.20	3,893.11	3,706.06	187.04	20.814		
11,500.00	7,730.00	7,640.00	7,640.00	55.89	132.37	-90.00	771.80	5,465.20	3,949.56	3,761.30	188.25	20.980		
11,600.00	7,730.00	7,640.00	7,640.00	57.07	132.37	-90.00	771.80	5,465.20	4,007.71	3,818.27	189.44	21.156		
11,700.00	7,730.00	7,640.00	7,640.00	58.30	132.37	-90.00	771.80	5,465.20	4,067.48	3,876.90	190.59	21.342		
11,800.00	7,730.00	7,640.00	7,640.00	59.55	132.37	-90.00	771.80	5,465.20	4,128.82	3,937.11	191.71	21.537		
11,900.00	7,730.00	7,640.00	7,640.00	60.84	132.37	-90.00	771.80	5,465.20	4,191.64	3,998.84	192.80	21.741		
12,000.00	7,730.00	7,640.00	7,640.00	62.15	132.37	-90.00	771.80	5,465.20	4,255.89	4,062.04	193.85	21.954		
12,100.00	7,730.00	7,640.00	7,640.00	63.49	132.37	-90.00	771.80	5,465.20	4,321.49	4,126.62	194.88	22.176		
12,200.00	7,730.00	7,640.00	7,640.00	64.85	132.37	-90.00	771.80	5,465.20	4,388.40	4,192.53	195.86	22.405		
12,300.00	7,730.00	7,640.00	7,640.00	66.22	132.37	-90.00	771.80	5,465.20	4,456.54	4,259.72	196.82	22.643		
12,400.00	7,730.00	7,640.00	7,640.00	67.62	132.37	-90.00	771.80	5,465.20	4,525.87	4,328.13	197.74	22.888		
12,500.00	7,730.00	7,640.00	7,640.00	69.03	132.37	-90.00	771.80	5,465.20	4,596.32	4,397.70	198.63	23.140		
12,600.00	7,730.00	7,640.00	7,640.00	70.45	132.37	-90.00	771.80	5,465.20	4,667.86	4,468.38	199.48	23.400		
12,700.00	7,730.00	7,640.00	7,640.00	71.90	132.37	-90.00	771.80	5,465.20	4,740.43	4,540.12	200.31	23.665		
12,800.00	7,730.00	7,640.00	7,640.00	73.35	132.37	-90.00	771.80	5,465.20	4,813.98	4,612.87	201.11	23.938		
12,900.00	7,730.00	7,640.00	7,640.00	74.81	132.37	-90.00	771.80	5,465.20	4,888.46	4,686.59	201.87	24.216		
13,000.00	7,730.00	7,640.00	7,640.00	76.29	132.37	-90.00	771.80	5,465.20	4,963.85	4,761.24	202.61	24.500		
13,100.00	7,730.00	7,640.00	7,640.00	77.78	132.37	-90.00	771.80	5,465.20	5,040.09	4,836.77	203.32	24.789		
13,200.00	7,730.00	7,640.00	7,640.00	79.28	132.37	-90.00	771.80	5,465.20	5,117.15	4,913.15	204.00	25.084		
13,300.00	7,730.00	7,640.00	7,640.00	80.79	132.37	-90.00	771.80	5,465.20	5,194.99	4,990.33	204.66	25.383		
13,400.00	7,730.00	7,640.00	7,640.00	82.31	132.37	-90.00	771.80	5,465.20	5,273.58	5,068.29	205.29	25.688		
13,500.00	7,730.00	7,640.00	7,640.00	83.84	132.37	-90.00	771.80	5,465.20	5,352.89	5,146.98	205.90	25.997		
13,600.00	7,730.00	7,640.00	7,640.00	85.37	132.37	-90.00	771.80	5,465.20	5,432.87	5,226.38	206.49	26.310		
13,700.00	7,730.00	7,640.00	7,640.00	86.92	132.37	-90.00	771.80	5,465.20	5,513.52	5,306.46	207.06	26.628		
13,800.00	7,730.00	7,640.00	7,640.00	88.47	132.37	-90.00	771.80	5,465.20	5,594.78	5,387.18	207.60	26.949		
13,900.00	7,730.00	7,640.00	7,640.00	90.03	132.37	-90.00	771.80	5,465.20	5,676.64	5,468.52	208.13	27.275		
14,000.00	7,730.00	7,640.00	7,640.00	91.59	132.37	-90.00	771.80	5,465.20	5,759.08	5,550.45	208.63	27.604		
14,100.00	7,730.00	7,640.00	7,640.00	93.16	132.37	-90.00	771.80	5,465.20	5,842.07	5,632.94	209.12	27.936		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,640.00	7,640.00	94.74	132.37	-90.00	771.80	5,465.20	5,925.58	5,715.98	209.59	28.272		
14,300.00	7,730.00	7,640.00	7,640.00	96.33	132.37	-90.00	771.80	5,465.20	6,009.59	5,799.54	210.05	28.611		
14,400.00	7,730.00	7,640.00	7,640.00	97.92	132.37	-90.00	771.80	5,465.20	6,094.09	5,883.60	210.49	28.953		
14,500.00	7,730.00	7,640.00	7,640.00	99.51	132.37	-90.00	771.80	5,465.20	6,179.05	5,968.14	210.91	29.297		
14,600.00	7,730.00	7,640.00	7,640.00	101.11	132.37	-90.00	771.80	5,465.20	6,264.45	6,053.13	211.32	29.645		
14,700.00	7,730.00	7,640.00	7,640.00	102.72	132.37	-90.00	771.80	5,465.20	6,350.28	6,138.57	211.71	29.995		
14,800.00	7,730.00	7,640.00	7,640.00	104.33	132.37	-90.00	771.80	5,465.20	6,436.52	6,224.43	212.09	30.348		
14,900.00	7,730.00	7,640.00	7,640.00	105.94	132.37	-90.00	771.80	5,465.20	6,523.15	6,310.69	212.46	30.703		
15,000.00	7,730.00	7,640.00	7,640.00	107.56	132.37	-90.00	771.80	5,465.20	6,610.16	6,397.35	212.82	31.061		
15,100.00	7,730.00	7,640.00	7,640.00	109.18	132.37	-90.00	771.80	5,465.20	6,697.53	6,484.37	213.16	31.420		
15,200.00	7,730.00	7,640.00	7,640.00	110.81	132.37	-90.00	771.80	5,465.20	6,785.25	6,571.76	213.49	31.782		
15,300.00	7,730.00	7,640.00	7,640.00	112.44	132.37	-90.00	771.80	5,465.20	6,873.31	6,659.49	213.82	32.146		
15,400.00	7,730.00	7,640.00	7,640.00	114.08	132.37	-90.00	771.80	5,465.20	6,961.69	6,747.56	214.13	32.512		
15,500.00	7,730.00	7,640.00	7,640.00	115.72	132.37	-90.00	771.80	5,465.20	7,050.38	6,835.95	214.43	32.880		
15,600.00	7,730.00	7,640.00	7,640.00	117.36	132.37	-90.00	771.80	5,465.20	7,139.37	6,924.64	214.72	33.249		
15,700.00	7,730.00	7,640.00	7,640.00	119.00	132.37	-90.00	771.80	5,465.20	7,228.64	7,013.63	215.01	33.620		
15,800.00	7,730.00	7,640.00	7,640.00	120.65	132.37	-90.00	771.80	5,465.20	7,318.20	7,102.91	215.28	33.993		
15,900.00	7,730.00	7,640.00	7,640.00	122.30	132.37	-90.00	771.80	5,465.20	7,408.02	7,192.47	215.55	34.368		
16,000.00	7,730.00	7,640.00	7,640.00	123.96	132.37	-90.00	771.80	5,465.20	7,498.10	7,282.28	215.81	34.744		
16,100.00	7,730.00	7,640.00	7,640.00	125.61	132.37	-90.00	771.80	5,465.20	7,588.42	7,372.36	216.06	35.121		
16,200.00	7,730.00	7,640.00	7,640.00	127.27	132.37	-90.00	771.80	5,465.20	7,678.99	7,462.68	216.31	35.500		
16,300.00	7,730.00	7,640.00	7,640.00	128.94	132.37	-90.00	771.80	5,465.20	7,769.79	7,553.24	216.55	35.880		
16,400.00	7,730.00	7,640.00	7,640.00	130.60	132.37	-90.00	771.80	5,465.20	7,860.81	7,644.03	216.78	36.262		
16,500.00	7,730.00	7,640.00	7,640.00	132.27	132.37	-90.00	771.80	5,465.20	7,952.05	7,735.04	217.00	36.645		
16,600.00	7,730.00	7,640.00	7,640.00	133.94	132.37	-90.00	771.80	5,465.20	8,043.49	7,826.27	217.22	37.029		
16,700.00	7,730.00	7,640.00	7,640.00	135.61	132.37	-90.00	771.80	5,465.20	8,135.14	7,917.70	217.44	37.414		
16,800.00	7,730.00	7,640.00	7,640.00	137.28	132.37	-90.00	771.80	5,465.20	8,226.98	8,009.34	217.64	37.800		
16,900.00	7,730.00	7,640.00	7,640.00	138.96	132.37	-90.00	771.80	5,465.20	8,319.01	8,101.16	217.85	38.188		
17,000.00	7,730.00	7,640.00	7,640.00	140.64	132.37	-90.00	771.80	5,465.20	8,411.22	8,193.18	218.04	38.576		
17,100.00	7,730.00	7,640.00	7,640.00	142.32	132.37	-90.00	771.80	5,465.20	8,503.61	8,285.37	218.24	38.965		
17,200.00	7,730.00	7,640.00	7,640.00	144.00	132.37	-90.00	771.80	5,465.20	8,596.17	8,377.74	218.42	39.355		
17,300.00	7,730.00	7,640.00	7,640.00	145.69	132.37	-90.00	771.80	5,465.20	8,688.89	8,470.28	218.61	39.747		
17,400.00	7,730.00	7,640.00	7,640.00	147.37	132.37	-90.00	771.80	5,465.20	8,781.77	8,562.99	218.79	40.139		
17,500.00	7,730.00	7,640.00	7,640.00	149.06	132.37	-90.00	771.80	5,465.20	8,874.81	8,655.85	218.96	40.532		
17,600.00	7,730.00	7,640.00	7,640.00	150.75	132.37	-90.00	771.80	5,465.20	8,968.00	8,748.87	219.13	40.925		
17,700.00	7,730.00	7,640.00	7,640.00	152.44	132.37	-90.00	771.80	5,465.20	9,061.33	8,842.03	219.30	41.320		
17,800.00	7,730.00	7,640.00	7,640.00	154.13	132.37	-90.00	771.80	5,465.20	9,154.80	8,935.34	219.46	41.715		
17,900.00	7,730.00	7,640.00	7,640.00	155.83	132.37	-90.00	771.80	5,465.20	9,248.41	9,028.79	219.62	42.111		
18,000.00	7,730.00	7,640.00	7,640.00	157.52	132.37	-90.00	771.80	5,465.20	9,342.15	9,122.38	219.78	42.508		
18,100.00	7,730.00	7,640.00	7,640.00	159.22	132.37	-90.00	771.80	5,465.20	9,436.03	9,216.10	219.93	42.905		
18,200.00	7,730.00	7,640.00	7,640.00	160.92	132.37	-90.00	771.80	5,465.20	9,530.02	9,309.94	220.08	43.303		
18,300.00	7,730.00	7,640.00	7,640.00	162.62	132.37	-90.00	771.80	5,465.20	9,624.14	9,403.91	220.22	43.701		
18,400.00	7,730.00	7,640.00	7,640.00	164.32	132.37	-90.00	771.80	5,465.20	9,718.37	9,498.00	220.37	44.101		
18,426.22	7,730.00	7,640.00	7,640.00	164.76	132.37	-90.00	771.80	5,465.20	9,743.10	9,522.69	220.41	44.205		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	115.50	-1,439.12	3,016.92	3,343.11					
100.00	100.00	41.00	41.00	0.13	0.31	115.50	-1,439.12	3,016.92	3,342.59	3,342.14	0.45	7,439.798		
200.00	200.00	141.00	141.00	0.49	1.48	115.50	-1,439.12	3,016.92	3,342.59	3,340.61	1.98	1,691.226		
300.00	300.00	241.00	241.00	0.85	3.23	115.50	-1,439.12	3,016.92	3,342.59	3,338.51	4.08	819.215		
400.00	400.00	341.00	341.00	1.21	4.97	115.50	-1,439.12	3,016.92	3,342.59	3,336.40	6.18	540.519		
500.00	500.00	441.00	441.00	1.57	6.72	115.50	-1,439.12	3,016.92	3,342.59	3,334.30	8.29	403.313		
600.00	600.00	541.00	541.00	1.93	8.46	115.50	-1,439.12	3,016.92	3,342.59	3,332.20	10.39	321.661		
700.00	700.00	641.00	641.00	2.29	10.21	115.50	-1,439.12	3,016.92	3,342.59	3,330.09	12.50	267.505		
800.00	800.00	741.00	741.00	2.64	11.96	115.50	-1,439.12	3,016.92	3,342.59	3,327.99	14.60	228.956		
900.00	900.00	841.00	841.00	3.00	13.70	115.50	-1,439.12	3,016.92	3,342.59	3,325.88	16.70	200.119		
1,000.00	1,000.00	941.00	941.00	3.36	15.45	115.50	-1,439.12	3,016.92	3,342.59	3,323.78	18.81	177.733		
1,100.00	1,100.00	1,041.00	1,041.00	3.72	17.19	115.50	-1,439.12	3,016.92	3,342.59	3,321.68	20.91	159.851		
1,200.00	1,200.00	1,141.00	1,141.00	4.08	18.94	115.50	-1,439.12	3,016.92	3,342.59	3,319.57	23.01	145.239		
1,300.00	1,299.98	1,240.98	1,240.98	4.43	20.68	68.42	-1,439.12	3,016.92	3,341.95	3,316.83	25.11	133.067		
1,400.00	1,399.84	1,340.84	1,340.84	4.79	22.42	68.54	-1,439.12	3,016.92	3,340.02	3,312.81	27.21	122.745		
1,500.00	1,499.45	1,440.45	1,440.45	5.15	24.16	68.74	-1,439.12	3,016.92	3,336.84	3,307.53	29.31	113.863		
1,600.00	1,598.70	1,539.70	1,539.70	5.51	25.90	69.01	-1,439.12	3,016.92	3,332.42	3,301.02	31.40	106.127		
1,700.00	1,697.47	1,638.47	1,638.47	5.89	27.62	69.37	-1,439.12	3,016.92	3,326.80	3,293.30	33.50	99.320		
1,800.00	1,795.62	1,736.62	1,736.62	6.28	29.33	69.80	-1,439.12	3,016.92	3,320.03	3,284.44	35.59	93.273		
1,900.00	1,893.06	1,834.06	1,834.06	6.69	31.03	70.30	-1,439.12	3,016.92	3,312.18	3,274.48	37.70	87.855		
2,000.00	1,989.64	1,930.64	1,930.64	7.13	32.72	70.88	-1,439.12	3,016.92	3,303.31	3,263.50	39.82	82.964		
2,100.00	2,085.27	2,026.27	2,026.27	7.61	34.39	71.53	-1,439.12	3,016.92	3,293.51	3,251.56	41.94	78.521		
2,200.00	2,179.82	2,120.82	2,120.82	8.12	36.04	72.25	-1,439.12	3,016.92	3,282.87	3,238.78	44.09	74.459		
2,300.00	2,273.17	2,214.17	2,214.17	8.67	37.67	73.03	-1,439.12	3,016.92	3,271.48	3,225.23	46.25	70.727		
2,400.00	2,365.21	2,306.21	2,306.21	9.27	39.27	73.87	-1,439.12	3,016.92	3,259.48	3,211.04	48.44	67.284		
2,500.00	2,455.84	2,403.16	2,398.84	9.92	40.97	74.77	-1,439.12	3,016.92	3,246.97	3,196.20	50.77	63.957		
2,580.62	2,527.80	2,468.80	2,468.80	10.49	42.11	75.53	-1,439.12	3,016.92	3,236.62	3,184.15	52.46	61.692		
2,600.00	2,544.97	2,485.97	2,485.97	10.63	42.41	75.66	-1,439.12	3,016.92	3,234.12	3,181.22	52.90	61.135		
2,700.00	2,633.58	2,574.58	2,574.58	11.37	43.96	76.38	-1,439.12	3,016.92	3,221.58	3,166.41	55.17	58.389		
2,800.00	2,722.19	2,663.19	2,663.19	12.13	45.50	77.09	-1,439.12	3,016.92	3,209.66	3,152.19	57.47	55.846		
2,900.00	2,810.80	2,751.80	2,751.80	12.91	47.05	77.82	-1,439.12	3,016.92	3,198.38	3,138.58	59.80	53.489		
3,000.00	2,899.41	2,840.41	2,840.41	13.71	48.60	78.54	-1,439.12	3,016.92	3,187.72	3,125.58	62.14	51.302		
3,100.00	2,988.02	2,929.02	2,929.02	14.52	50.14	79.27	-1,439.12	3,016.92	3,177.71	3,113.21	64.49	49.272		
3,200.00	3,076.63	3,017.63	3,017.63	15.34	51.69	80.00	-1,439.12	3,016.92	3,168.34	3,101.47	66.86	47.385		
3,300.00	3,165.24	3,106.24	3,106.24	16.16	53.24	80.74	-1,439.12	3,016.92	3,159.62	3,090.38	69.25	45.629		
3,400.00	3,253.85	3,205.15	3,194.85	17.00	54.96	81.48	-1,439.12	3,016.92	3,151.56	3,079.75	71.82	43.882		
3,500.00	3,342.46	3,283.46	3,283.46	17.84	56.33	82.22	-1,439.12	3,016.92	3,144.17	3,070.13	74.04	42.466		
3,600.00	3,431.07	3,372.07	3,372.07	18.69	57.88	82.97	-1,439.12	3,016.92	3,137.44	3,060.99	76.45	41.040		
3,700.00	3,519.68	3,460.68	3,460.68	19.55	59.42	83.71	-1,439.12	3,016.92	3,131.38	3,052.52	78.86	39.706		
3,800.00	3,608.29	3,549.29	3,549.29	20.40	60.97	84.46	-1,439.12	3,016.92	3,126.00	3,044.72	81.28	38.458		
3,900.00	3,696.90	3,637.90	3,637.90	21.26	62.52	85.21	-1,439.12	3,016.92	3,121.30	3,037.59	83.71	37.288		
4,000.00	3,785.51	3,726.51	3,726.51	22.13	64.06	85.97	-1,439.12	3,016.92	3,117.28	3,031.15	86.13	36.191		
4,100.00	3,874.12	3,815.12	3,815.12	23.00	65.61	86.72	-1,439.12	3,016.92	3,113.95	3,025.38	88.56	35.161		
4,200.00	3,962.73	3,903.73	3,903.73	23.87	67.16	87.47	-1,439.12	3,016.92	3,111.30	3,020.30	90.99	34.193		
4,300.00	4,051.34	4,007.66	3,992.34	24.74	68.97	88.23	-1,439.12	3,016.92	3,109.34	3,015.65	93.69	33.187		
4,400.00	4,139.95	4,080.95	4,080.95	25.62	70.25	88.99	-1,439.12	3,016.92	3,108.07	3,012.21	95.85	32.425		
4,500.00	4,228.56	4,169.56	4,169.56	26.49	71.80	89.74	-1,439.12	3,016.92	3,107.49	3,009.21	98.28	31.617		
4,533.70	4,258.42	4,200.58	4,199.42	26.79	72.34	90.00	-1,439.12	3,016.92	3,107.45	3,008.33	99.12	31.349		
4,600.00	4,317.17	4,258.17	4,258.17	27.37	73.34	90.50	-1,439.12	3,016.92	3,107.60	3,006.89	100.71	30.856		
4,700.00	4,405.78	4,346.78	4,346.78	28.25	74.89	91.26	-1,439.12	3,016.92	3,108.41	3,005.27	103.14	30.138		
4,800.00	4,494.39	4,435.39	4,435.39	29.13	76.43	92.02	-1,439.12	3,016.92	3,109.90	3,004.34	105.56	29.460		
4,900.00	4,583.00	4,524.00	4,524.00	30.02	77.98	92.77	-1,439.12	3,016.92	3,112.09	3,004.10	107.98	28.820		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,612.61	4,612.61	30.90	79.53	93.53	-1,439.12	3,016.92	3,114.96	3,004.56	110.40	28.216		
5,100.00	4,760.22	4,701.22	4,701.22	31.79	81.07	94.28	-1,439.12	3,016.92	3,118.52	3,005.71	112.81	27.644		
5,200.00	4,848.83	4,789.83	4,789.83	32.67	82.62	95.03	-1,439.12	3,016.92	3,122.76	3,007.54	115.22	27.103		
5,300.00	4,937.44	4,878.44	4,878.44	33.56	84.17	95.78	-1,439.12	3,016.92	3,127.68	3,010.06	117.62	26.592		
5,400.00	5,026.05	4,967.05	4,967.05	34.45	85.71	96.53	-1,439.12	3,016.92	3,133.28	3,013.27	120.01	26.108		
5,500.00	5,114.66	5,055.66	5,055.66	35.34	87.26	97.28	-1,439.12	3,016.92	3,139.56	3,017.16	122.40	25.649		
5,600.00	5,203.27	5,144.27	5,144.27	36.23	88.81	98.02	-1,439.12	3,016.92	3,146.51	3,021.72	124.79	25.215		
5,700.00	5,291.88	5,232.88	5,232.88	37.12	90.35	98.76	-1,439.12	3,016.92	3,154.12	3,026.96	127.16	24.804		
5,800.00	5,380.50	5,321.50	5,321.50	38.01	91.90	99.50	-1,439.12	3,016.92	3,162.39	3,032.86	129.53	24.414		
5,900.00	5,469.11	5,410.11	5,410.11	38.90	93.45	100.24	-1,439.12	3,016.92	3,171.32	3,039.43	131.89	24.045		
6,000.00	5,557.72	5,501.28	5,498.72	39.79	95.04	100.97	-1,439.12	3,016.92	3,180.90	3,046.61	134.29	23.687		
6,100.00	5,646.33	5,587.33	5,587.33	40.68	96.54	101.70	-1,439.12	3,016.92	3,191.12	3,054.54	136.59	23.363		
6,200.00	5,734.94	5,675.94	5,675.94	41.58	98.09	102.42	-1,439.12	3,016.92	3,201.99	3,063.06	138.93	23.048		
6,300.00	5,823.55	5,764.55	5,764.55	42.47	99.63	103.14	-1,439.12	3,016.92	3,213.48	3,072.23	141.25	22.750		
6,400.00	5,912.16	5,853.16	5,853.16	43.36	101.18	103.86	-1,439.12	3,016.92	3,225.60	3,082.03	143.57	22.467		
6,500.00	6,000.77	5,941.77	5,941.77	44.26	102.73	104.57	-1,439.12	3,016.92	3,238.34	3,092.46	145.88	22.198		
6,600.00	6,089.38	6,030.38	6,030.38	45.15	104.27	105.27	-1,439.12	3,016.92	3,251.69	3,103.50	148.18	21.944		
6,700.00	6,177.99	6,118.99	6,118.99	46.05	105.82	105.98	-1,439.12	3,016.92	3,265.64	3,115.16	150.47	21.702		
6,800.00	6,266.60	6,207.60	6,207.60	46.94	107.37	106.67	-1,439.12	3,016.92	3,280.18	3,127.43	152.76	21.473		
6,900.00	6,355.21	6,303.79	6,296.21	47.84	109.04	107.37	-1,439.12	3,016.92	3,295.32	3,140.16	155.16	21.238		
7,000.00	6,443.82	6,384.82	6,384.82	48.74	110.46	108.05	-1,439.12	3,016.92	3,311.03	3,153.74	157.29	21.050		
7,100.00	6,532.43	6,473.43	6,473.43	49.63	112.01	108.74	-1,439.12	3,016.92	3,327.32	3,167.77	159.55	20.855		
7,200.00	6,621.04	6,562.04	6,562.04	50.53	113.55	109.41	-1,439.12	3,016.92	3,344.17	3,182.38	161.79	20.670		
7,300.00	6,709.65	6,650.65	6,650.65	51.42	115.10	110.08	-1,439.12	3,016.92	3,361.57	3,197.55	164.03	20.494		
7,400.00	6,798.26	6,739.26	6,739.26	52.32	116.64	110.75	-1,439.12	3,016.92	3,379.52	3,213.27	166.25	20.328		
7,500.00	6,886.87	6,827.87	6,827.87	53.22	118.19	111.41	-1,439.12	3,016.92	3,398.01	3,229.54	168.47	20.170		
7,600.00	6,975.48	6,916.48	6,916.48	54.12	119.74	112.06	-1,439.12	3,016.92	3,417.02	3,246.35	170.67	20.021		
7,656.30	7,025.36	6,966.36	6,966.36	54.62	120.61	112.43	-1,439.12	3,016.92	3,427.96	3,256.05	171.91	19.940		
7,700.00	7,064.54	7,005.54	7,005.54	55.00	121.29	105.76	-1,439.12	3,016.92	3,434.99	3,262.11	172.88	19.870		
7,750.00	7,110.29	7,051.29	7,051.29	55.40	122.09	96.15	-1,439.12	3,016.92	3,439.26	3,265.28	173.98	19.768		
7,800.00	7,156.67	7,102.33	7,097.67	55.75	122.98	84.55	-1,439.12	3,016.92	3,439.46	3,264.30	175.16	19.636		
7,850.00	7,203.34	7,144.34	7,144.34	56.05	123.71	71.76	-1,439.12	3,016.92	3,435.56	3,259.40	176.16	19.503		
7,900.00	7,249.95	7,209.05	7,190.95	56.30	124.84	59.10	-1,439.12	3,016.92	3,427.58	3,250.05	177.53	19.307		
7,950.00	7,296.14	7,237.14	7,237.14	56.50	125.33	47.73	-1,439.12	3,016.92	3,415.56	3,237.32	178.23	19.163		
8,000.00	7,341.56	7,282.56	7,282.56	56.64	126.13	38.19	-1,439.12	3,016.92	3,399.57	3,220.36	179.21	18.970		
8,050.00	7,385.86	7,326.86	7,326.86	56.74	126.90	30.41	-1,439.12	3,016.92	3,379.72	3,199.58	180.14	18.761		
8,100.00	7,428.71	7,369.71	7,369.71	56.79	127.65	24.04	-1,439.12	3,016.92	3,356.14	3,175.12	181.02	18.540		
8,150.00	7,469.77	7,410.77	7,410.77	56.80	128.37	18.72	-1,439.12	3,016.92	3,329.00	3,147.15	181.84	18.307		
8,200.00	7,508.75	7,449.75	7,449.75	56.77	129.05	14.09	-1,439.12	3,016.92	3,298.49	3,115.88	182.61	18.063		
8,250.00	7,545.33	7,486.33	7,486.33	56.70	129.68	9.86	-1,439.12	3,016.92	3,264.83	3,081.52	183.30	17.811		
8,300.00	7,579.25	7,520.25	7,520.25	56.59	130.28	5.74	-1,439.12	3,016.92	3,228.27	3,044.34	183.93	17.551		
8,350.00	7,610.24	7,551.24	7,551.24	56.45	130.82	1.47	-1,439.12	3,016.92	3,189.08	3,004.59	184.49	17.286		
8,400.00	7,638.06	7,579.06	7,579.06	56.28	131.30	-3.30	-1,439.12	3,016.92	3,147.56	2,962.59	184.97	17.016		
8,450.00	7,662.52	7,603.52	7,603.52	56.09	131.73	-9.01	-1,439.12	3,016.92	3,104.03	2,918.64	185.38	16.744		
8,500.00	7,683.41	7,624.41	7,624.41	55.88	132.09	-16.30	-1,439.12	3,016.92	3,058.81	2,873.10	185.71	16.471		
8,550.00	7,700.59	7,641.59	7,641.59	55.64	132.39	-26.08	-1,439.12	3,016.92	3,012.26	2,826.31	185.96	16.199		
8,600.00	7,713.91	7,654.91	7,654.91	55.39	132.63	-39.40	-1,439.12	3,016.92	2,964.76	2,778.63	186.12	15.929		
8,650.00	7,723.29	7,664.29	7,664.29	55.14	132.79	-56.63	-1,439.12	3,016.92	2,916.66	2,730.45	186.21	15.663		
8,700.00	7,728.64	7,669.64	7,669.64	54.87	132.88	-75.73	-1,439.12	3,016.92	2,868.37	2,682.15	186.22	15.403		
8,740.83	7,730.00	7,671.00	7,671.00	54.65	132.91	-90.00	-1,439.12	3,016.92	2,829.05	2,642.89	186.16	15.197		
8,800.00	7,730.00	7,671.00	7,671.00	54.33	132.91	-90.00	-1,439.12	3,016.92	2,772.32	2,586.28	186.04	14.902		
8,900.00	7,730.00	7,671.00	7,671.00	53.82	132.91	-90.00	-1,439.12	3,016.92	2,676.69	2,490.86	185.83	14.404		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,671.00	7,671.00	53.33	132.91	-90.00	-1,439.12	3,016.92	2,581.38	2,395.78	185.60	13.908		
9,100.00	7,730.00	7,671.00	7,671.00	52.87	132.91	-90.00	-1,439.12	3,016.92	2,486.44	2,301.08	185.36	13.414		
9,200.00	7,730.00	7,671.00	7,671.00	52.44	132.91	-90.00	-1,439.12	3,016.92	2,391.91	2,206.82	185.10	12.922		
9,300.00	7,730.00	7,671.00	7,671.00	52.03	132.91	-90.00	-1,439.12	3,016.92	2,297.85	2,113.03	184.82	12.433		
9,400.00	7,730.00	7,671.00	7,671.00	51.65	132.91	-90.00	-1,439.12	3,016.92	2,204.31	2,019.79	184.52	11.946		
9,500.00	7,730.00	7,671.00	7,671.00	51.29	132.91	-90.00	-1,439.12	3,016.92	2,111.37	1,927.17	184.19	11.463		
9,600.00	7,730.00	7,671.00	7,671.00	50.95	132.91	-90.00	-1,439.12	3,016.92	2,019.09	1,835.25	183.84	10.983		
9,700.00	7,730.00	7,671.00	7,671.00	50.64	132.91	-90.00	-1,439.12	3,016.92	1,927.59	1,744.13	183.46	10.507		
9,800.00	7,730.00	7,671.00	7,671.00	50.35	132.91	-90.00	-1,439.12	3,016.92	1,836.97	1,653.92	183.05	10.035		
9,900.00	7,730.00	7,671.00	7,671.00	50.09	132.91	-90.00	-1,439.12	3,016.92	1,747.38	1,564.77	182.61	9.569		
10,000.00	7,730.00	7,671.00	7,671.00	49.86	132.91	-90.00	-1,439.12	3,016.92	1,658.98	1,476.84	182.14	9.108		
10,100.00	7,730.00	7,671.00	7,671.00	49.65	132.91	-90.00	-1,439.12	3,016.92	1,571.97	1,390.34	181.62	8.655		
10,200.00	7,730.00	7,671.00	7,671.00	49.48	132.91	-90.00	-1,439.12	3,016.92	1,486.59	1,305.51	181.08	8.210		
10,300.00	7,730.00	7,671.00	7,671.00	49.35	132.91	-90.00	-1,439.12	3,016.92	1,403.15	1,222.65	180.50	7.774		
10,400.00	7,730.00	7,671.00	7,671.00	49.27	132.91	-90.00	-1,439.12	3,016.92	1,322.00	1,142.10	179.90	7.348		
10,500.00	7,730.00	7,671.00	7,671.00	49.26	132.91	-90.00	-1,439.12	3,016.92	1,243.61	1,064.31	179.30	6.936		
10,600.00	7,730.00	7,671.00	7,671.00	49.32	132.91	-90.00	-1,439.12	3,016.92	1,168.52	989.80	178.72	6.538		
10,700.00	7,730.00	7,671.00	7,671.00	49.51	132.91	-90.00	-1,439.12	3,016.92	1,097.41	919.20	178.20	6.158		
10,800.00	7,730.00	7,671.00	7,671.00	49.83	132.91	-90.00	-1,439.12	3,016.92	1,031.10	853.28	177.82	5.799		
10,900.00	7,730.00	7,671.00	7,671.00	50.31	132.91	-90.00	-1,439.12	3,016.92	970.59	792.93	177.66	5.463		
11,000.00	7,730.00	7,671.00	7,671.00	50.96	132.91	-90.00	-1,439.12	3,016.92	917.01	739.18	177.84	5.156		
11,100.00	7,730.00	7,671.00	7,671.00	51.75	132.91	-90.00	-1,439.12	3,016.92	871.65	693.20	178.46	4.884		
11,200.00	7,730.00	7,671.00	7,671.00	52.66	132.91	-90.00	-1,439.12	3,016.92	835.85	656.24	179.61	4.654		
11,300.00	7,730.00	7,671.00	7,671.00	53.67	132.91	-90.00	-1,439.12	3,016.92	810.88	629.58	181.30	4.473		
11,400.00	7,730.00	7,671.00	7,671.00	54.75	132.91	-90.00	-1,439.12	3,016.92	797.74	614.31	183.43	4.349		
11,455.65	7,730.00	7,671.00	7,671.00	55.38	132.91	-90.00	-1,439.12	3,016.92	795.80	611.06	184.73	4.308 CC, ES		
11,500.00	7,730.00	7,671.00	7,671.00	55.89	132.91	-90.00	-1,439.12	3,016.92	797.03	611.23	185.80	4.290 SF		
11,600.00	7,730.00	7,671.00	7,671.00	57.07	132.91	-90.00	-1,439.12	3,016.92	808.78	620.60	188.18	4.298		
11,700.00	7,730.00	7,671.00	7,671.00	58.30	132.91	-90.00	-1,439.12	3,016.92	832.47	642.09	190.38	4.373		
11,800.00	7,730.00	7,671.00	7,671.00	59.55	132.91	-90.00	-1,439.12	3,016.92	867.10	674.86	192.25	4.510		
11,900.00	7,730.00	7,671.00	7,671.00	60.84	132.91	-90.00	-1,439.12	3,016.92	911.45	717.70	193.75	4.704		
12,000.00	7,730.00	7,671.00	7,671.00	62.15	132.91	-90.00	-1,439.12	3,016.92	964.16	769.27	194.89	4.947		
12,100.00	7,730.00	7,671.00	7,671.00	63.49	132.91	-90.00	-1,439.12	3,016.92	1,023.95	828.23	195.72	5.232		
12,200.00	7,730.00	7,671.00	7,671.00	64.85	132.91	-90.00	-1,439.12	3,016.92	1,089.66	893.36	196.30	5.551		
12,300.00	7,730.00	7,671.00	7,671.00	66.22	132.91	-90.00	-1,439.12	3,016.92	1,160.27	963.59	196.67	5.899		
12,400.00	7,730.00	7,671.00	7,671.00	67.62	132.91	-90.00	-1,439.12	3,016.92	1,234.94	1,038.04	196.91	6.272		
12,500.00	7,730.00	7,671.00	7,671.00	69.03	132.91	-90.00	-1,439.12	3,016.92	1,313.00	1,115.97	197.03	6.664		
12,600.00	7,730.00	7,671.00	7,671.00	70.45	132.91	-90.00	-1,439.12	3,016.92	1,393.85	1,196.78	197.07	7.073		
12,700.00	7,730.00	7,671.00	7,671.00	71.90	132.91	-90.00	-1,439.12	3,016.92	1,477.06	1,279.99	197.06	7.495		
12,800.00	7,730.00	7,671.00	7,671.00	73.35	132.91	-90.00	-1,439.12	3,016.92	1,562.23	1,365.22	197.02	7.929		
12,900.00	7,730.00	7,671.00	7,671.00	74.81	132.91	-90.00	-1,439.12	3,016.92	1,649.07	1,452.13	196.94	8.373		
13,000.00	7,730.00	7,671.00	7,671.00	76.29	132.91	-90.00	-1,439.12	3,016.92	1,737.33	1,540.48	196.85	8.826		
13,100.00	7,730.00	7,671.00	7,671.00	77.78	132.91	-90.00	-1,439.12	3,016.92	1,826.79	1,630.05	196.75	9.285		
13,200.00	7,730.00	7,671.00	7,671.00	79.28	132.91	-90.00	-1,439.12	3,016.92	1,917.30	1,720.67	196.64	9.750		
13,300.00	7,730.00	7,671.00	7,671.00	80.79	132.91	-90.00	-1,439.12	3,016.92	2,008.71	1,812.18	196.53	10.221		
13,400.00	7,730.00	7,671.00	7,671.00	82.31	132.91	-90.00	-1,439.12	3,016.92	2,100.90	1,904.49	196.41	10.696		
13,500.00	7,730.00	7,671.00	7,671.00	83.84	132.91	-90.00	-1,439.12	3,016.92	2,193.78	1,997.47	196.30	11.175		
13,600.00	7,730.00	7,671.00	7,671.00	85.37	132.91	-90.00	-1,439.12	3,016.92	2,287.25	2,091.06	196.20	11.658		
13,700.00	7,730.00	7,671.00	7,671.00	86.92	132.91	-90.00	-1,439.12	3,016.92	2,381.26	2,185.17	196.09	12.144		
13,800.00	7,730.00	7,671.00	7,671.00	88.47	132.91	-90.00	-1,439.12	3,016.92	2,475.74	2,279.74	195.99	12.632		
13,900.00	7,730.00	7,671.00	7,671.00	90.03	132.91	-90.00	-1,439.12	3,016.92	2,570.63	2,374.73	195.90	13.122		
14,000.00	7,730.00	7,671.00	7,671.00	91.59	132.91	-90.00	-1,439.12	3,016.92	2,665.90	2,470.09	195.80	13.615		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,671.00	7,671.00	93.16	132.91	-90.00	-1,439.12	3,016.92	2,761.50	2,565.78	195.72	14.110		
14,200.00	7,730.00	7,671.00	7,671.00	94.74	132.91	-90.00	-1,439.12	3,016.92	2,857.40	2,661.77	195.63	14.606		
14,300.00	7,730.00	7,671.00	7,671.00	96.33	132.91	-90.00	-1,439.12	3,016.92	2,953.58	2,758.02	195.56	15.103		
14,400.00	7,730.00	7,671.00	7,671.00	97.92	132.91	-90.00	-1,439.12	3,016.92	3,050.00	2,854.52	195.48	15.602		
14,500.00	7,730.00	7,671.00	7,671.00	99.51	132.91	-90.00	-1,439.12	3,016.92	3,146.64	2,951.23	195.41	16.103		
14,600.00	7,730.00	7,671.00	7,671.00	101.11	132.91	-90.00	-1,439.12	3,016.92	3,243.49	3,048.14	195.35	16.604		
14,700.00	7,730.00	7,671.00	7,671.00	102.72	132.91	-90.00	-1,439.12	3,016.92	3,340.52	3,145.24	195.28	17.106		
14,800.00	7,730.00	7,671.00	7,671.00	104.33	132.91	-90.00	-1,439.12	3,016.92	3,437.73	3,242.50	195.23	17.609		
14,900.00	7,730.00	7,671.00	7,671.00	105.94	132.91	-90.00	-1,439.12	3,016.92	3,535.09	3,339.91	195.17	18.113		
15,000.00	7,730.00	7,671.00	7,671.00	107.56	132.91	-90.00	-1,439.12	3,016.92	3,632.59	3,437.47	195.12	18.617		
15,100.00	7,730.00	7,671.00	7,671.00	109.18	132.91	-90.00	-1,439.12	3,016.92	3,730.22	3,535.15	195.07	19.122		
15,200.00	7,730.00	7,671.00	7,671.00	110.81	132.91	-90.00	-1,439.12	3,016.92	3,827.98	3,632.95	195.03	19.628		
15,300.00	7,730.00	7,671.00	7,671.00	112.44	132.91	-90.00	-1,439.12	3,016.92	3,925.85	3,730.87	194.99	20.134		
15,400.00	7,730.00	7,671.00	7,671.00	114.08	132.91	-90.00	-1,439.12	3,016.92	4,023.83	3,828.88	194.95	20.641		
15,500.00	7,730.00	7,671.00	7,671.00	115.72	132.91	-90.00	-1,439.12	3,016.92	4,121.90	3,926.99	194.91	21.148		
15,600.00	7,730.00	7,671.00	7,671.00	117.36	132.91	-90.00	-1,439.12	3,016.92	4,220.06	4,025.18	194.88	21.655		
15,700.00	7,730.00	7,671.00	7,671.00	119.00	132.91	-90.00	-1,439.12	3,016.92	4,318.31	4,123.46	194.85	22.163		
15,800.00	7,730.00	7,671.00	7,671.00	120.65	132.91	-90.00	-1,439.12	3,016.92	4,416.63	4,221.82	194.82	22.670		
15,900.00	7,730.00	7,671.00	7,671.00	122.30	132.91	-90.00	-1,439.12	3,016.92	4,515.03	4,320.24	194.79	23.179		
16,000.00	7,730.00	7,671.00	7,671.00	123.96	132.91	-90.00	-1,439.12	3,016.92	4,613.50	4,418.73	194.77	23.687		
16,100.00	7,730.00	7,671.00	7,671.00	125.61	132.91	-90.00	-1,439.12	3,016.92	4,712.03	4,517.29	194.75	24.196		
16,200.00	7,730.00	7,671.00	7,671.00	127.27	132.91	-90.00	-1,439.12	3,016.92	4,810.63	4,615.90	194.73	24.704		
16,300.00	7,730.00	7,671.00	7,671.00	128.94	132.91	-90.00	-1,439.12	3,016.92	4,909.28	4,714.57	194.71	25.213		
16,400.00	7,730.00	7,671.00	7,671.00	130.60	132.91	-90.00	-1,439.12	3,016.92	5,007.98	4,813.29	194.69	25.722		
16,500.00	7,730.00	7,671.00	7,671.00	132.27	132.91	-90.00	-1,439.12	3,016.92	5,106.74	4,912.05	194.68	26.231		
16,600.00	7,730.00	7,671.00	7,671.00	133.94	132.91	-90.00	-1,439.12	3,016.92	5,205.54	5,010.87	194.67	26.740		
16,700.00	7,730.00	7,671.00	7,671.00	135.61	132.91	-90.00	-1,439.12	3,016.92	5,304.38	5,109.72	194.66	27.250		
16,800.00	7,730.00	7,671.00	7,671.00	137.28	132.91	-90.00	-1,439.12	3,016.92	5,403.27	5,208.62	194.65	27.759		
16,900.00	7,730.00	7,671.00	7,671.00	138.96	132.91	-90.00	-1,439.12	3,016.92	5,502.20	5,307.56	194.64	28.268		
17,000.00	7,730.00	7,671.00	7,671.00	140.64	132.91	-90.00	-1,439.12	3,016.92	5,601.17	5,406.53	194.64	28.777		
17,100.00	7,730.00	7,671.00	7,671.00	142.32	132.91	-90.00	-1,439.12	3,016.92	5,700.17	5,505.54	194.63	29.287		
17,200.00	7,730.00	7,671.00	7,671.00	144.00	132.91	-90.00	-1,439.12	3,016.92	5,799.21	5,604.58	194.63	29.796		
17,300.00	7,730.00	7,671.00	7,671.00	145.69	132.91	-90.00	-1,439.12	3,016.92	5,898.28	5,703.65	194.63	30.305		
17,400.00	7,730.00	7,671.00	7,671.00	147.37	132.91	-90.00	-1,439.12	3,016.92	5,997.38	5,802.75	194.63	30.814		
17,500.00	7,730.00	7,671.00	7,671.00	149.06	132.91	-90.00	-1,439.12	3,016.92	6,096.51	5,901.88	194.63	31.323		
17,600.00	7,730.00	7,671.00	7,671.00	150.75	132.91	-90.00	-1,439.12	3,016.92	6,195.67	6,001.03	194.64	31.832		
17,700.00	7,730.00	7,671.00	7,671.00	152.44	132.91	-90.00	-1,439.12	3,016.92	6,294.85	6,100.21	194.64	32.341		
17,800.00	7,730.00	7,671.00	7,671.00	154.13	132.91	-90.00	-1,439.12	3,016.92	6,394.06	6,199.42	194.65	32.850		
17,900.00	7,730.00	7,671.00	7,671.00	155.83	132.91	-90.00	-1,439.12	3,016.92	6,493.30	6,298.64	194.65	33.358		
18,000.00	7,730.00	7,671.00	7,671.00	157.52	132.91	-90.00	-1,439.12	3,016.92	6,592.56	6,397.89	194.66	33.867		
18,100.00	7,730.00	7,671.00	7,671.00	159.22	132.91	-90.00	-1,439.12	3,016.92	6,691.84	6,497.16	194.67	34.375		
18,200.00	7,730.00	7,671.00	7,671.00	160.92	132.91	-90.00	-1,439.12	3,016.92	6,791.14	6,596.46	194.68	34.883		
18,300.00	7,730.00	7,671.00	7,671.00	162.62	132.91	-90.00	-1,439.12	3,016.92	6,890.46	6,695.77	194.69	35.392		
18,400.00	7,730.00	7,671.00	7,671.00	164.32	132.91	-90.00	-1,439.12	3,016.92	6,989.80	6,795.09	194.70	35.899		
18,426.22	7,730.00	7,671.00	7,671.00	164.76	132.91	-90.00	-1,439.12	3,016.92	7,015.85	6,821.14	194.71	36.033		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	108.43	-1,435.29	4,307.81	4,540.78					
100.00	100.00	62.00	62.00	0.13	0.47	108.43	-1,435.29	4,307.81	4,540.62	4,540.02	0.61	7,503.393		
200.00	200.00	162.00	162.00	0.49	1.84	108.43	-1,435.29	4,307.81	4,540.62	4,538.29	2.33	1,945.241		
300.00	300.00	262.00	262.00	0.85	3.59	108.43	-1,435.29	4,307.81	4,540.62	4,536.19	4.44	1,023.119		
400.00	400.00	362.00	362.00	1.21	5.33	108.43	-1,435.29	4,307.81	4,540.62	4,534.08	6.54	694.092		
500.00	500.00	462.00	462.00	1.57	7.08	108.43	-1,435.29	4,307.81	4,540.62	4,531.98	8.65	525.193		
600.00	600.00	562.00	562.00	1.93	8.82	108.43	-1,435.29	4,307.81	4,540.62	4,529.88	10.75	422.406		
700.00	700.00	662.00	662.00	2.29	10.57	108.43	-1,435.29	4,307.81	4,540.62	4,527.77	12.85	353.267		
800.00	800.00	762.00	762.00	2.64	12.31	108.43	-1,435.29	4,307.81	4,540.62	4,525.67	14.96	303.578		
900.00	900.00	862.00	862.00	3.00	14.06	108.43	-1,435.29	4,307.81	4,540.62	4,523.56	17.06	266.143		
1,000.00	1,000.00	962.00	962.00	3.36	15.80	108.43	-1,435.29	4,307.81	4,540.62	4,521.46	19.16	236.927		
1,100.00	1,100.00	1,062.00	1,062.00	3.72	17.55	108.43	-1,435.29	4,307.81	4,540.62	4,519.36	21.27	213.491		
1,200.00	1,200.00	1,162.00	1,162.00	4.08	19.29	108.43	-1,435.29	4,307.81	4,540.62	4,517.25	23.37	194.274		
1,300.00	1,299.98	1,261.98	1,261.98	4.43	21.04	61.34	-1,435.29	4,307.81	4,539.79	4,514.31	25.47	178.223		
1,400.00	1,399.84	1,361.84	1,361.84	4.79	22.78	61.44	-1,435.29	4,307.81	4,537.28	4,509.71	27.57	164.581		
1,500.00	1,499.45	1,461.45	1,461.45	5.15	24.52	61.61	-1,435.29	4,307.81	4,533.11	4,503.45	29.66	152.820		
1,600.00	1,598.70	1,560.70	1,560.70	5.51	26.25	61.85	-1,435.29	4,307.81	4,527.30	4,495.55	31.76	142.565		
1,700.00	1,697.47	1,659.47	1,659.47	5.89	27.98	62.15	-1,435.29	4,307.81	4,519.89	4,486.04	33.85	133.530		
1,800.00	1,795.62	1,757.62	1,757.62	6.28	29.69	62.53	-1,435.29	4,307.81	4,510.90	4,474.96	35.94	125.496		
1,900.00	1,893.06	1,855.06	1,855.06	6.69	31.39	62.96	-1,435.29	4,307.81	4,500.39	4,462.34	38.04	118.294		
2,000.00	1,989.64	1,951.64	1,951.64	7.13	33.08	63.46	-1,435.29	4,307.81	4,488.40	4,448.25	40.15	111.789		
2,100.00	2,085.27	2,047.27	2,047.27	7.61	34.75	64.03	-1,435.29	4,307.81	4,474.99	4,432.73	42.27	105.874		
2,200.00	2,179.82	2,141.82	2,141.82	8.12	36.40	64.66	-1,435.29	4,307.81	4,460.25	4,415.85	44.40	100.464		
2,300.00	2,273.17	2,235.17	2,235.17	8.67	38.02	65.35	-1,435.29	4,307.81	4,444.24	4,397.69	46.54	95.488		
2,400.00	2,365.21	2,327.21	2,327.21	9.27	39.63	66.10	-1,435.29	4,307.81	4,427.04	4,378.34	48.71	90.892		
2,500.00	2,455.84	2,417.84	2,417.84	9.92	41.21	66.90	-1,435.29	4,307.81	4,408.76	4,357.87	50.89	86.627		
2,580.62	2,527.80	2,489.80	2,489.80	10.49	42.47	67.59	-1,435.29	4,307.81	4,393.30	4,340.62	52.67	83.406		
2,600.00	2,544.97	2,506.97	2,506.97	10.63	42.77	67.69	-1,435.29	4,307.81	4,389.51	4,336.41	53.10	82.659		
2,700.00	2,633.58	2,604.42	2,595.58	11.37	44.47	68.19	-1,435.29	4,307.81	4,370.24	4,314.74	55.50	78.748		
2,800.00	2,722.19	2,684.19	2,684.19	12.13	45.86	68.70	-1,435.29	4,307.81	4,351.37	4,293.76	57.61	75.537		
2,900.00	2,810.80	2,772.80	2,772.80	12.91	47.41	69.22	-1,435.29	4,307.81	4,332.91	4,273.02	59.89	72.346		
3,000.00	2,899.41	2,861.41	2,861.41	13.71	48.95	69.74	-1,435.29	4,307.81	4,314.88	4,252.68	62.20	69.374		
3,100.00	2,988.02	2,950.02	2,950.02	14.52	50.50	70.26	-1,435.29	4,307.81	4,297.27	4,232.75	64.52	66.603		
3,200.00	3,076.63	3,038.63	3,038.63	15.34	52.05	70.78	-1,435.29	4,307.81	4,280.08	4,213.22	66.86	64.017		
3,300.00	3,165.24	3,127.24	3,127.24	16.16	53.59	71.31	-1,435.29	4,307.81	4,263.34	4,194.12	69.21	61.599		
3,400.00	3,253.85	3,215.85	3,215.85	17.00	55.14	71.84	-1,435.29	4,307.81	4,247.03	4,175.45	71.58	59.337		
3,500.00	3,342.46	3,304.46	3,304.46	17.84	56.69	72.38	-1,435.29	4,307.81	4,231.16	4,157.21	73.95	57.216		
3,600.00	3,431.07	3,406.93	3,393.07	18.69	58.48	72.92	-1,435.29	4,307.81	4,215.75	4,139.17	76.58	55.052		
3,700.00	3,519.68	3,481.68	3,481.68	19.55	59.78	73.46	-1,435.29	4,307.81	4,200.79	4,122.06	78.73	53.356		
3,800.00	3,608.29	3,570.29	3,570.29	20.40	61.33	74.00	-1,435.29	4,307.81	4,186.29	4,105.16	81.13	51.597		
3,900.00	3,696.90	3,658.90	3,658.90	21.26	62.87	74.55	-1,435.29	4,307.81	4,172.26	4,088.72	83.55	49.940		
4,000.00	3,785.51	3,747.51	3,747.51	22.13	64.42	75.10	-1,435.29	4,307.81	4,158.70	4,072.73	85.96	48.378		
4,100.00	3,874.12	3,836.12	3,836.12	23.00	65.97	75.65	-1,435.29	4,307.81	4,145.60	4,057.22	88.39	46.903		
4,200.00	3,962.73	3,924.73	3,924.73	23.87	67.51	76.21	-1,435.29	4,307.81	4,132.99	4,042.17	90.82	45.509		
4,300.00	4,051.34	4,013.34	4,013.34	24.74	69.06	76.77	-1,435.29	4,307.81	4,120.86	4,027.61	93.25	44.190		
4,400.00	4,139.95	4,101.95	4,101.95	25.62	70.61	77.33	-1,435.29	4,307.81	4,109.22	4,013.53	95.69	42.942		
4,500.00	4,228.56	4,209.44	4,190.56	26.49	72.48	77.89	-1,435.29	4,307.81	4,098.07	3,999.60	98.47	41.618		
4,600.00	4,317.17	4,279.17	4,279.17	27.37	73.70	78.46	-1,435.29	4,307.81	4,087.41	3,986.82	100.59	40.636		
4,700.00	4,405.78	4,367.78	4,367.78	28.25	75.25	79.03	-1,435.29	4,307.81	4,077.25	3,974.22	103.04	39.570		
4,800.00	4,494.39	4,456.39	4,456.39	29.13	76.79	79.60	-1,435.29	4,307.81	4,067.60	3,962.11	105.49	38.558		
4,900.00	4,583.00	4,545.00	4,545.00	30.02	78.34	80.17	-1,435.29	4,307.81	4,058.45	3,950.50	107.95	37.595		
5,000.00	4,671.61	4,633.61	4,633.61	30.90	79.89	80.75	-1,435.29	4,307.81	4,049.81	3,939.40	110.41	36.679		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,722.22	4,722.22	31.79	81.43	81.32	-1,435.29	4,307.81	4,041.69	3,928.81	112.87	35.807		
5,200.00	4,848.83	4,810.83	4,810.83	32.67	82.98	81.90	-1,435.29	4,307.81	4,034.08	3,918.74	115.34	34.976		
5,300.00	4,937.44	4,900.56	4,899.44	33.56	84.54	82.48	-1,435.29	4,307.81	4,026.99	3,909.17	117.82	34.179		
5,400.00	5,026.05	4,988.05	4,988.05	34.45	86.07	83.06	-1,435.29	4,307.81	4,020.42	3,900.15	120.27	33.429		
5,500.00	5,114.66	5,076.66	5,076.66	35.34	87.62	83.64	-1,435.29	4,307.81	4,014.38	3,891.64	122.73	32.708		
5,600.00	5,203.27	5,165.27	5,165.27	36.23	89.16	84.23	-1,435.29	4,307.81	4,008.86	3,883.66	125.20	32.020		
5,700.00	5,291.88	5,253.88	5,253.88	37.12	90.71	84.81	-1,435.29	4,307.81	4,003.87	3,876.21	127.67	31.362		
5,800.00	5,380.50	5,342.50	5,342.50	38.01	92.26	85.40	-1,435.29	4,307.81	3,999.41	3,869.28	130.13	30.734		
5,900.00	5,469.11	5,431.11	5,431.11	38.90	93.80	85.99	-1,435.29	4,307.81	3,995.49	3,862.90	132.59	30.133		
6,000.00	5,557.72	5,519.72	5,519.72	39.79	95.35	86.58	-1,435.29	4,307.81	3,992.10	3,857.04	135.06	29.559		
6,100.00	5,646.33	5,608.33	5,608.33	40.68	96.90	87.17	-1,435.29	4,307.81	3,989.24	3,851.73	137.52	29.009		
6,200.00	5,734.94	5,703.06	5,696.94	41.58	98.55	87.75	-1,435.29	4,307.81	3,986.93	3,846.84	140.08	28.461		
6,300.00	5,823.55	5,785.55	5,785.55	42.47	99.99	88.34	-1,435.29	4,307.81	3,985.15	3,842.72	142.43	27.979		
6,400.00	5,912.16	5,874.16	5,874.16	43.36	101.54	88.94	-1,435.29	4,307.81	3,983.91	3,839.02	144.88	27.497		
6,500.00	6,000.77	5,962.77	5,962.77	44.26	103.08	89.53	-1,435.29	4,307.81	3,983.20	3,835.87	147.33	27.035		
6,580.26	6,071.88	6,033.88	6,033.88	44.98	104.32	90.00	-1,435.29	4,307.81	3,983.03	3,833.73	149.30	26.678		
6,600.00	6,089.38	6,051.38	6,051.38	45.15	104.63	90.12	-1,435.29	4,307.81	3,983.04	3,833.26	149.78	26.592		
6,700.00	6,177.99	6,139.99	6,139.99	46.05	106.18	90.71	-1,435.29	4,307.81	3,983.42	3,831.19	152.22	26.168		
6,800.00	6,266.60	6,228.60	6,228.60	46.94	107.72	91.30	-1,435.29	4,307.81	3,984.33	3,829.67	154.66	25.761		
6,900.00	6,355.21	6,317.21	6,317.21	47.84	109.27	91.89	-1,435.29	4,307.81	3,985.79	3,828.69	157.10	25.371		
7,000.00	6,443.82	6,405.82	6,405.82	48.74	110.82	92.48	-1,435.29	4,307.81	3,987.78	3,828.25	159.53	24.997		
7,100.00	6,532.43	6,505.57	6,494.43	49.63	112.56	93.07	-1,435.29	4,307.81	3,990.31	3,828.16	162.15	24.609		
7,200.00	6,621.04	6,583.04	6,583.04	50.53	113.91	93.66	-1,435.29	4,307.81	3,993.37	3,829.00	164.38	24.294		
7,300.00	6,709.65	6,671.65	6,671.65	51.42	115.46	94.24	-1,435.29	4,307.81	3,996.98	3,830.18	166.79	23.964		
7,400.00	6,798.26	6,760.26	6,760.26	52.32	117.00	94.83	-1,435.29	4,307.81	4,001.11	3,831.91	169.20	23.647		
7,500.00	6,886.87	6,848.87	6,848.87	53.22	118.55	95.42	-1,435.29	4,307.81	4,005.78	3,834.17	171.60	23.343		
7,600.00	6,975.48	6,937.48	6,937.48	54.12	120.10	96.00	-1,435.29	4,307.81	4,010.97	3,836.97	174.00	23.051		
7,656.30	7,025.36	6,987.36	6,987.36	54.62	120.97	96.33	-1,435.29	4,307.81	4,014.13	3,838.79	175.35	22.892		
7,700.00	7,064.54	7,026.54	7,026.54	55.00	121.65	96.94	-1,435.29	4,307.81	4,015.30	3,838.91	176.39	22.764		
7,750.00	7,110.29	7,072.29	7,072.29	55.40	122.45	97.61	-1,435.29	4,307.81	4,013.32	3,835.75	177.57	22.602		
7,800.00	7,156.67	7,118.67	7,118.67	55.75	123.26	97.65	-1,435.29	4,307.81	4,007.77	3,829.05	178.72	22.425		
7,850.00	7,203.34	7,165.34	7,165.34	56.05	124.07	98.40	-1,435.29	4,307.81	3,998.67	3,818.84	179.83	22.236		
7,900.00	7,249.95	7,211.95	7,211.95	56.30	124.89	99.17	-1,435.29	4,307.81	3,986.06	3,805.16	180.90	22.034		
7,950.00	7,296.14	7,258.14	7,258.14	56.50	125.69	99.94	-1,435.29	4,307.81	3,970.01	3,788.09	181.92	21.823		
8,000.00	7,341.56	7,303.56	7,303.56	56.64	126.49	100.71	-1,435.29	4,307.81	3,950.62	3,767.74	182.88	21.602		
8,050.00	7,385.86	7,347.86	7,347.86	56.74	127.26	101.48	-1,435.29	4,307.81	3,928.02	3,744.25	183.78	21.374		
8,100.00	7,428.71	7,409.29	7,390.71	56.79	128.33	102.25	-1,435.29	4,307.81	3,902.39	3,717.46	184.93	21.102		
8,150.00	7,469.77	7,431.77	7,431.77	56.80	128.72	103.02	-1,435.29	4,307.81	3,873.89	3,688.53	185.36	20.899		
8,200.00	7,508.75	7,470.75	7,470.75	56.77	129.40	103.79	-1,435.29	4,307.81	3,842.77	3,656.73	186.04	20.655		
8,250.00	7,545.33	7,507.33	7,507.33	56.70	130.04	104.56	-1,435.29	4,307.81	3,809.25	3,622.61	186.64	20.409		
8,300.00	7,579.25	7,541.25	7,541.25	56.59	130.63	105.33	-1,435.29	4,307.81	3,773.60	3,586.45	187.16	20.163		
8,350.00	7,610.24	7,572.24	7,572.24	56.45	131.17	106.10	-1,435.29	4,307.81	3,736.13	3,548.54	187.59	19.917		
8,400.00	7,638.06	7,600.06	7,600.06	56.28	131.66	106.87	-1,435.29	4,307.81	3,697.13	3,509.21	187.92	19.673		
8,450.00	7,662.52	7,624.52	7,624.52	56.09	132.09	107.64	-1,435.29	4,307.81	3,656.94	3,468.76	188.17	19.434		
8,500.00	7,683.41	7,645.41	7,645.41	55.88	132.45	108.41	-1,435.29	4,307.81	3,615.89	3,427.56	188.33	19.200		
8,550.00	7,700.59	7,662.59	7,662.59	55.64	132.75	109.18	-1,435.29	4,307.81	3,574.34	3,385.95	188.39	18.973		
8,600.00	7,713.91	7,675.91	7,675.91	55.39	132.98	110.00	-1,435.29	4,307.81	3,532.65	3,344.29	188.36	18.755		
8,650.00	7,723.29	7,685.29	7,685.29	55.14	133.15	110.82	-1,435.29	4,307.81	3,491.17	3,302.94	188.23	18.547		
8,700.00	7,728.64	7,709.36	7,690.64	54.87	133.57	111.64	-1,435.29	4,307.81	3,450.28	3,261.94	188.35	18.319		
8,740.83	7,730.00	7,708.00	7,692.00	54.65	133.54	112.46	-1,435.29	4,307.81	3,417.57	3,229.51	188.06	18.173		
8,800.00	7,730.00	7,708.00	7,692.00	54.33	133.54	113.28	-1,435.29	4,307.81	3,370.90	3,183.24	187.66	17.963		
8,900.00	7,730.00	7,708.00	7,692.00	53.82	133.54	114.10	-1,435.29	4,307.81	3,292.95	3,105.97	186.98	17.612		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,708.00	7,692.00	53.33	133.54	-90.00	-1,435.29	4,307.81	3,216.21	3,029.94	186.27	17.266		
9,100.00	7,730.00	7,708.00	7,692.00	52.87	133.54	-90.00	-1,435.29	4,307.81	3,140.79	2,955.24	185.54	16.927		
9,200.00	7,730.00	7,708.00	7,692.00	52.44	133.54	-90.00	-1,435.29	4,307.81	3,066.76	2,881.96	184.80	16.595		
9,300.00	7,730.00	7,708.00	7,692.00	52.03	133.54	-90.00	-1,435.29	4,307.81	2,994.26	2,810.21	184.04	16.269		
9,400.00	7,730.00	7,708.00	7,692.00	51.65	133.54	-90.00	-1,435.29	4,307.81	2,923.37	2,740.09	183.27	15.951		
9,500.00	7,730.00	7,708.00	7,692.00	51.29	133.54	-90.00	-1,435.29	4,307.81	2,854.22	2,671.72	182.50	15.640		
9,600.00	7,730.00	7,708.00	7,692.00	50.95	133.54	-90.00	-1,435.29	4,307.81	2,786.95	2,605.23	181.73	15.336		
9,700.00	7,730.00	7,708.00	7,692.00	50.64	133.54	-90.00	-1,435.29	4,307.81	2,721.70	2,540.73	180.97	15.040		
9,800.00	7,730.00	7,708.00	7,692.00	50.35	133.54	-90.00	-1,435.29	4,307.81	2,658.60	2,478.37	180.23	14.751		
9,900.00	7,730.00	7,708.00	7,692.00	50.09	133.54	-90.00	-1,435.29	4,307.81	2,597.82	2,418.30	179.52	14.471		
10,000.00	7,730.00	7,708.00	7,692.00	49.86	133.54	-90.00	-1,435.29	4,307.81	2,539.52	2,360.66	178.86	14.198		
10,100.00	7,730.00	7,708.00	7,692.00	49.65	133.54	-90.00	-1,435.29	4,307.81	2,483.89	2,305.62	178.27	13.933		
10,200.00	7,730.00	7,708.00	7,692.00	49.48	133.54	-90.00	-1,435.29	4,307.81	2,431.09	2,253.33	177.77	13.676		
10,300.00	7,730.00	7,708.00	7,692.00	49.35	133.54	-90.00	-1,435.29	4,307.81	2,381.33	2,203.96	177.37	13.426		
10,400.00	7,730.00	7,708.00	7,692.00	49.27	133.54	-90.00	-1,435.29	4,307.81	2,334.79	2,157.69	177.10	13.184		
10,500.00	7,730.00	7,708.00	7,692.00	49.26	133.54	-90.00	-1,435.29	4,307.81	2,291.67	2,114.69	176.98	12.949		
10,600.00	7,730.00	7,708.00	7,692.00	49.32	133.54	-90.00	-1,435.29	4,307.81	2,252.17	2,075.14	177.04	12.722		
10,700.00	7,730.00	7,708.00	7,692.00	49.51	133.54	-90.00	-1,435.29	4,307.81	2,216.48	2,039.20	177.28	12.503		
10,800.00	7,730.00	7,708.00	7,692.00	49.83	133.54	-90.00	-1,435.29	4,307.81	2,184.79	2,007.06	177.73	12.293		
10,900.00	7,730.00	7,708.00	7,692.00	50.31	133.54	-90.00	-1,435.29	4,307.81	2,157.27	1,978.89	178.38	12.093		
11,000.00	7,730.00	7,708.00	7,692.00	50.96	133.54	-90.00	-1,435.29	4,307.81	2,134.09	1,954.85	179.25	11.906		
11,100.00	7,730.00	7,708.00	7,692.00	51.75	133.54	-90.00	-1,435.29	4,307.81	2,115.39	1,935.08	180.31	11.732		
11,200.00	7,730.00	7,708.00	7,692.00	52.66	133.54	-90.00	-1,435.29	4,307.81	2,101.28	1,919.73	181.55	11.574		
11,300.00	7,730.00	7,708.00	7,692.00	53.67	133.54	-90.00	-1,435.29	4,307.81	2,091.86	1,908.90	182.96	11.433		
11,400.00	7,730.00	7,708.00	7,692.00	54.75	133.54	-90.00	-1,435.29	4,307.81	2,087.20	1,902.70	184.50	11.313		
11,447.42	7,730.00	7,708.00	7,692.00	55.28	133.54	-90.00	-1,435.29	4,307.81	2,086.66	1,901.39	185.27	11.263 CC		
11,500.00	7,730.00	7,708.00	7,692.00	55.89	133.54	-90.00	-1,435.29	4,307.81	2,087.33	1,901.18	186.15	11.213 ES		
11,600.00	7,730.00	7,708.00	7,692.00	57.07	133.54	-90.00	-1,435.29	4,307.81	2,092.23	1,904.37	187.87	11.137		
11,700.00	7,730.00	7,708.00	7,692.00	58.30	133.54	-90.00	-1,435.29	4,307.81	2,101.89	1,912.27	189.63	11.084		
11,800.00	7,730.00	7,708.00	7,692.00	59.55	133.54	-90.00	-1,435.29	4,307.81	2,116.24	1,924.84	191.41	11.056		
11,900.00	7,730.00	7,708.00	7,692.00	60.84	133.54	-90.00	-1,435.29	4,307.81	2,135.18	1,942.01	193.17	11.053 SF		
12,000.00	7,730.00	7,708.00	7,692.00	62.15	133.54	-90.00	-1,435.29	4,307.81	2,158.59	1,963.69	194.90	11.075		
12,100.00	7,730.00	7,708.00	7,692.00	63.49	133.54	-90.00	-1,435.29	4,307.81	2,186.33	1,989.75	196.58	11.122		
12,200.00	7,730.00	7,708.00	7,692.00	64.85	133.54	-90.00	-1,435.29	4,307.81	2,218.23	2,020.04	198.19	11.192		
12,300.00	7,730.00	7,708.00	7,692.00	66.22	133.54	-90.00	-1,435.29	4,307.81	2,254.12	2,054.40	199.72	11.286		
12,400.00	7,730.00	7,708.00	7,692.00	67.62	133.54	-90.00	-1,435.29	4,307.81	2,293.81	2,092.65	201.16	11.403		
12,500.00	7,730.00	7,708.00	7,692.00	69.03	133.54	-90.00	-1,435.29	4,307.81	2,337.11	2,134.60	202.51	11.541		
12,600.00	7,730.00	7,708.00	7,692.00	70.45	133.54	-90.00	-1,435.29	4,307.81	2,383.82	2,180.05	203.77	11.699		
12,700.00	7,730.00	7,708.00	7,692.00	71.90	133.54	-90.00	-1,435.29	4,307.81	2,433.75	2,228.82	204.93	11.876		
12,800.00	7,730.00	7,708.00	7,692.00	73.35	133.54	-90.00	-1,435.29	4,307.81	2,486.69	2,280.69	206.00	12.071		
12,900.00	7,730.00	7,708.00	7,692.00	74.81	133.54	-90.00	-1,435.29	4,307.81	2,542.47	2,335.49	206.99	12.283		
13,000.00	7,730.00	7,708.00	7,692.00	76.29	133.54	-90.00	-1,435.29	4,307.81	2,600.90	2,393.02	207.88	12.511		
13,100.00	7,730.00	7,708.00	7,692.00	77.78	133.54	-90.00	-1,435.29	4,307.81	2,661.80	2,453.10	208.70	12.754		
13,200.00	7,730.00	7,708.00	7,692.00	79.28	133.54	-90.00	-1,435.29	4,307.81	2,725.02	2,515.57	209.44	13.011		
13,300.00	7,730.00	7,708.00	7,692.00	80.79	133.54	-90.00	-1,435.29	4,307.81	2,790.38	2,580.26	210.12	13.280		
13,400.00	7,730.00	7,708.00	7,692.00	82.31	133.54	-90.00	-1,435.29	4,307.81	2,857.75	2,647.02	210.73	13.561		
13,500.00	7,730.00	7,708.00	7,692.00	83.84	133.54	-90.00	-1,435.29	4,307.81	2,926.99	2,715.71	211.28	13.854		
13,600.00	7,730.00	7,708.00	7,692.00	85.37	133.54	-90.00	-1,435.29	4,307.81	2,997.96	2,786.19	211.77	14.156		
13,700.00	7,730.00	7,708.00	7,692.00	86.92	133.54	-90.00	-1,435.29	4,307.81	3,070.55	2,858.33	212.22	14.469		
13,800.00	7,730.00	7,708.00	7,692.00	88.47	133.54	-90.00	-1,435.29	4,307.81	3,144.65	2,932.03	212.62	14.790		
13,900.00	7,730.00	7,708.00	7,692.00	90.03	133.54	-90.00	-1,435.29	4,307.81	3,220.14	3,007.16	212.98	15.119		
14,000.00	7,730.00	7,708.00	7,692.00	91.59	133.54	-90.00	-1,435.29	4,307.81	3,296.94	3,083.64	213.30	15.457		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,100.00	7,730.00	7,708.00	7,692.00	93.16	133.54	-90.00	-1,435.29	4,307.81	3,374.96	3,161.37	213.59	15.801		
14,200.00	7,730.00	7,708.00	7,692.00	94.74	133.54	-90.00	-1,435.29	4,307.81	3,454.11	3,240.26	213.85	16.152		
14,300.00	7,730.00	7,708.00	7,692.00	96.33	133.54	-90.00	-1,435.29	4,307.81	3,534.32	3,320.23	214.09	16.509		
14,400.00	7,730.00	7,708.00	7,692.00	97.92	133.54	-90.00	-1,435.29	4,307.81	3,615.51	3,401.22	214.29	16.872		
14,500.00	7,730.00	7,708.00	7,692.00	99.51	133.54	-90.00	-1,435.29	4,307.81	3,697.62	3,483.15	214.48	17.240		
14,600.00	7,730.00	7,708.00	7,692.00	101.11	133.54	-90.00	-1,435.29	4,307.81	3,780.60	3,565.96	214.64	17.613		
14,700.00	7,730.00	7,708.00	7,692.00	102.72	133.54	-90.00	-1,435.29	4,307.81	3,864.38	3,649.59	214.79	17.992		
14,800.00	7,730.00	7,708.00	7,692.00	104.33	133.54	-90.00	-1,435.29	4,307.81	3,948.92	3,734.00	214.92	18.374		
14,900.00	7,730.00	7,708.00	7,692.00	105.94	133.54	-90.00	-1,435.29	4,307.81	4,034.17	3,819.13	215.04	18.760		
15,000.00	7,730.00	7,708.00	7,692.00	107.56	133.54	-90.00	-1,435.29	4,307.81	4,120.07	3,904.93	215.14	19.151		
15,100.00	7,730.00	7,708.00	7,692.00	109.18	133.54	-90.00	-1,435.29	4,307.81	4,206.61	3,991.37	215.23	19.545		
15,200.00	7,730.00	7,708.00	7,692.00	110.81	133.54	-90.00	-1,435.29	4,307.81	4,293.72	4,078.41	215.31	19.942		
15,300.00	7,730.00	7,708.00	7,692.00	112.44	133.54	-90.00	-1,435.29	4,307.81	4,381.39	4,166.01	215.38	20.342		
15,400.00	7,730.00	7,708.00	7,692.00	114.08	133.54	-90.00	-1,435.29	4,307.81	4,469.57	4,254.13	215.45	20.746		
15,500.00	7,730.00	7,708.00	7,692.00	115.72	133.54	-90.00	-1,435.29	4,307.81	4,558.24	4,342.74	215.50	21.152		
15,600.00	7,730.00	7,708.00	7,692.00	117.36	133.54	-90.00	-1,435.29	4,307.81	4,647.38	4,431.83	215.55	21.561		
15,700.00	7,730.00	7,708.00	7,692.00	119.00	133.54	-90.00	-1,435.29	4,307.81	4,736.94	4,521.35	215.59	21.972		
15,800.00	7,730.00	7,708.00	7,692.00	120.65	133.54	-90.00	-1,435.29	4,307.81	4,826.92	4,611.29	215.63	22.386		
15,900.00	7,730.00	7,708.00	7,692.00	122.30	133.54	-90.00	-1,435.29	4,307.81	4,917.28	4,701.62	215.66	22.801		
16,000.00	7,730.00	7,708.00	7,692.00	123.96	133.54	-90.00	-1,435.29	4,307.81	5,008.01	4,792.33	215.69	23.219		
16,100.00	7,730.00	7,708.00	7,692.00	125.61	133.54	-90.00	-1,435.29	4,307.81	5,099.09	4,883.38	215.71	23.639		
16,200.00	7,730.00	7,708.00	7,692.00	127.27	133.54	-90.00	-1,435.29	4,307.81	5,190.49	4,974.76	215.73	24.060		
16,300.00	7,730.00	7,708.00	7,692.00	128.94	133.54	-90.00	-1,435.29	4,307.81	5,282.21	5,066.46	215.75	24.484		
16,400.00	7,730.00	7,708.00	7,692.00	130.60	133.54	-90.00	-1,435.29	4,307.81	5,374.22	5,158.46	215.76	24.908		
16,500.00	7,730.00	7,708.00	7,692.00	132.27	133.54	-90.00	-1,435.29	4,307.81	5,466.51	5,250.74	215.77	25.335		
16,600.00	7,730.00	7,708.00	7,692.00	133.94	133.54	-90.00	-1,435.29	4,307.81	5,559.07	5,343.29	215.78	25.763		
16,700.00	7,730.00	7,708.00	7,692.00	135.61	133.54	-90.00	-1,435.29	4,307.81	5,651.88	5,436.10	215.79	26.192		
16,800.00	7,730.00	7,708.00	7,692.00	137.28	133.54	-90.00	-1,435.29	4,307.81	5,744.94	5,529.14	215.79	26.622		
16,900.00	7,730.00	7,708.00	7,692.00	138.96	133.54	-90.00	-1,435.29	4,307.81	5,838.22	5,622.42	215.80	27.054		
17,000.00	7,730.00	7,708.00	7,692.00	140.64	133.54	-90.00	-1,435.29	4,307.81	5,931.72	5,715.92	215.80	27.487		
17,100.00	7,730.00	7,708.00	7,692.00	142.32	133.54	-90.00	-1,435.29	4,307.81	6,025.43	5,809.63	215.80	27.921		
17,200.00	7,730.00	7,708.00	7,692.00	144.00	133.54	-90.00	-1,435.29	4,307.81	6,119.34	5,903.54	215.80	28.356		
17,300.00	7,730.00	7,708.00	7,692.00	145.69	133.54	-90.00	-1,435.29	4,307.81	6,213.44	5,997.64	215.80	28.792		
17,400.00	7,730.00	7,708.00	7,692.00	147.37	133.54	-90.00	-1,435.29	4,307.81	6,307.73	6,091.92	215.80	29.229		
17,500.00	7,730.00	7,708.00	7,692.00	149.06	133.54	-90.00	-1,435.29	4,307.81	6,402.18	6,186.38	215.80	29.667		
17,600.00	7,730.00	7,708.00	7,692.00	150.75	133.54	-90.00	-1,435.29	4,307.81	6,496.80	6,281.00	215.80	30.105		
17,700.00	7,730.00	7,708.00	7,692.00	152.44	133.54	-90.00	-1,435.29	4,307.81	6,591.58	6,375.78	215.80	30.545		
17,800.00	7,730.00	7,708.00	7,692.00	154.13	133.54	-90.00	-1,435.29	4,307.81	6,686.51	6,470.72	215.80	30.985		
17,900.00	7,730.00	7,708.00	7,692.00	155.83	133.54	-90.00	-1,435.29	4,307.81	6,781.59	6,565.80	215.80	31.426		
18,000.00	7,730.00	7,708.00	7,692.00	157.52	133.54	-90.00	-1,435.29	4,307.81	6,876.81	6,661.02	215.79	31.868		
18,100.00	7,730.00	7,708.00	7,692.00	159.22	133.54	-90.00	-1,435.29	4,307.81	6,972.16	6,756.37	215.79	32.310		
18,200.00	7,730.00	7,708.00	7,692.00	160.92	133.54	-90.00	-1,435.29	4,307.81	7,067.64	6,851.85	215.79	32.752		
18,300.00	7,730.00	7,708.00	7,692.00	162.62	133.54	-90.00	-1,435.29	4,307.81	7,163.24	6,947.46	215.79	33.196		
18,400.00	7,730.00	7,708.00	7,692.00	164.32	133.54	-90.00	-1,435.29	4,307.81	7,258.97	7,043.18	215.79	33.640		
18,426.22	7,730.00	7,708.00	7,692.00	164.76	133.54	-90.00	-1,435.29	4,307.81	7,284.08	7,068.30	215.79	33.756		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	123.67	-3,056.32	4,588.13	5,513.10					
100.00	100.00	53.00	53.00	0.13	0.41	123.67	-3,056.32	4,588.13	5,512.89	5,512.35	0.54	N/A		
200.00	200.00	153.00	153.00	0.49	1.69	123.67	-3,056.32	4,588.13	5,512.89	5,510.71	2.19	2,522.061		
300.00	300.00	253.00	253.00	0.85	3.44	123.67	-3,056.32	4,588.13	5,512.89	5,508.61	4.29	1,285.156		
400.00	400.00	353.00	353.00	1.21	5.18	123.67	-3,056.32	4,588.13	5,512.89	5,506.50	6.39	862.270		
500.00	500.00	453.00	453.00	1.57	6.93	123.67	-3,056.32	4,588.13	5,512.89	5,504.40	8.50	648.784		
600.00	600.00	553.00	553.00	1.93	8.67	123.67	-3,056.32	4,588.13	5,512.89	5,502.29	10.60	520.032		
700.00	700.00	653.00	653.00	2.29	10.42	123.67	-3,056.32	4,588.13	5,512.89	5,500.19	12.70	433.920		
800.00	800.00	753.00	753.00	2.64	12.16	123.67	-3,056.32	4,588.13	5,512.89	5,498.09	14.81	372.275		
900.00	900.00	853.00	853.00	3.00	13.91	123.67	-3,056.32	4,588.13	5,512.89	5,495.98	16.91	325.966		
1,000.00	1,000.00	953.00	953.00	3.36	15.66	123.67	-3,056.32	4,588.13	5,512.89	5,493.88	19.02	289.904		
1,100.00	1,100.00	1,053.00	1,053.00	3.72	17.40	123.67	-3,056.32	4,588.13	5,512.89	5,491.77	21.12	261.026		
1,200.00	1,200.00	1,153.00	1,153.00	4.08	19.15	123.67	-3,056.32	4,588.13	5,512.89	5,489.67	23.22	237.380		
1,300.00	1,299.98	1,252.98	1,252.98	4.43	20.89	76.57	-3,056.32	4,588.13	5,512.49	5,487.16	25.32	217.676		
1,400.00	1,399.84	1,352.84	1,352.84	4.79	22.63	76.65	-3,056.32	4,588.13	5,511.28	5,483.86	27.42	200.990		
1,500.00	1,499.45	1,452.45	1,452.45	5.15	24.37	76.78	-3,056.32	4,588.13	5,509.27	5,479.75	29.52	186.653		
1,600.00	1,598.70	1,551.70	1,551.70	5.51	26.10	76.95	-3,056.32	4,588.13	5,506.48	5,474.86	31.61	174.191		
1,700.00	1,697.47	1,650.47	1,650.47	5.89	27.83	77.18	-3,056.32	4,588.13	5,502.93	5,469.22	33.71	163.246		
1,800.00	1,795.62	1,748.62	1,748.62	6.28	29.54	77.45	-3,056.32	4,588.13	5,498.67	5,462.86	35.81	153.543		
1,900.00	1,893.06	1,846.06	1,846.06	6.69	31.24	77.77	-3,056.32	4,588.13	5,493.72	5,455.80	37.92	144.868		
2,000.00	1,989.64	1,942.64	1,942.64	7.13	32.93	78.14	-3,056.32	4,588.13	5,488.14	5,448.10	40.04	137.053		
2,100.00	2,085.27	2,038.27	2,038.27	7.61	34.60	78.55	-3,056.32	4,588.13	5,481.97	5,439.79	42.18	129.967		
2,200.00	2,179.82	2,132.82	2,132.82	8.12	36.25	78.99	-3,056.32	4,588.13	5,475.28	5,430.95	44.33	123.501		
2,300.00	2,273.17	2,226.17	2,226.17	8.67	37.88	79.48	-3,056.32	4,588.13	5,468.13	5,421.62	46.51	117.572		
2,400.00	2,365.21	2,318.21	2,318.21	9.27	39.48	80.00	-3,056.32	4,588.13	5,460.59	5,411.89	48.71	112.109		
2,500.00	2,455.84	2,408.84	2,408.84	9.92	41.06	80.55	-3,056.32	4,588.13	5,452.74	5,401.81	50.93	107.057		
2,580.62	2,527.80	2,480.80	2,480.80	10.49	42.32	81.02	-3,056.32	4,588.13	5,446.24	5,393.50	52.75	103.251		
2,600.00	2,544.97	2,502.03	2,497.97	10.63	42.69	81.10	-3,056.32	4,588.13	5,444.67	5,391.42	53.26	102.234		
2,700.00	2,633.58	2,586.58	2,586.58	11.37	44.17	81.53	-3,056.32	4,588.13	5,436.80	5,381.33	55.47	98.018		
2,800.00	2,722.19	2,675.19	2,675.19	12.13	45.71	81.96	-3,056.32	4,588.13	5,429.31	5,371.54	57.77	93.977		
2,900.00	2,810.80	2,763.80	2,763.80	12.91	47.26	82.39	-3,056.32	4,588.13	5,422.21	5,362.12	60.10	90.223		
3,000.00	2,899.41	2,852.41	2,852.41	13.71	48.81	82.82	-3,056.32	4,588.13	5,415.50	5,353.06	62.44	86.732		
3,100.00	2,988.02	2,941.02	2,941.02	14.52	50.35	83.26	-3,056.32	4,588.13	5,409.17	5,344.38	64.79	83.482		
3,200.00	3,076.63	3,029.63	3,029.63	15.34	51.90	83.69	-3,056.32	4,588.13	5,403.24	5,336.08	67.16	80.450		
3,300.00	3,165.24	3,118.24	3,118.24	16.16	53.45	84.12	-3,056.32	4,588.13	5,397.70	5,328.16	69.54	77.620		
3,400.00	3,253.85	3,206.85	3,206.85	17.00	54.99	84.56	-3,056.32	4,588.13	5,392.55	5,320.62	71.93	74.973		
3,500.00	3,342.46	3,304.54	3,295.46	17.84	56.70	84.99	-3,056.32	4,588.13	5,387.79	5,313.31	74.48	72.340		
3,600.00	3,431.07	3,384.07	3,384.07	18.69	58.09	85.43	-3,056.32	4,588.13	5,383.43	5,306.71	76.72	70.170		
3,700.00	3,519.68	3,472.68	3,472.68	19.55	59.63	85.87	-3,056.32	4,588.13	5,379.46	5,300.33	79.13	67.986		
3,800.00	3,608.29	3,561.29	3,561.29	20.40	61.18	86.30	-3,056.32	4,588.13	5,375.89	5,294.35	81.54	65.933		
3,900.00	3,696.90	3,649.90	3,649.90	21.26	62.73	86.74	-3,056.32	4,588.13	5,372.72	5,288.77	83.95	63.999		
4,000.00	3,785.51	3,738.51	3,738.51	22.13	64.27	87.18	-3,056.32	4,588.13	5,369.94	5,283.58	86.37	62.175		
4,100.00	3,874.12	3,827.12	3,827.12	23.00	65.82	87.62	-3,056.32	4,588.13	5,367.57	5,278.78	88.79	60.453		
4,200.00	3,962.73	3,915.73	3,915.73	23.87	67.37	88.05	-3,056.32	4,588.13	5,365.59	5,274.38	91.21	58.826		
4,300.00	4,051.34	4,004.34	4,004.34	24.74	68.91	88.49	-3,056.32	4,588.13	5,364.02	5,270.38	93.64	57.285		
4,400.00	4,139.95	4,107.05	4,092.95	25.62	70.70	88.93	-3,056.32	4,588.13	5,362.84	5,266.53	96.31	55.683		
4,500.00	4,228.56	4,181.56	4,181.56	26.49	72.00	89.37	-3,056.32	4,588.13	5,362.07	5,263.57	98.49	54.442		
4,600.00	4,317.17	4,270.17	4,270.17	27.37	73.55	89.81	-3,056.32	4,588.13	5,361.69	5,260.77	100.92	53.128		
4,643.59	4,355.80	4,308.80	4,308.80	27.75	74.23	90.00	-3,056.32	4,588.13	5,361.65	5,259.67	101.98	52.576		
4,700.00	4,405.78	4,358.78	4,358.78	28.25	75.10	90.25	-3,056.32	4,588.13	5,361.72	5,258.37	103.35	51.880		
4,800.00	4,494.39	4,447.39	4,447.39	29.13	76.64	90.69	-3,056.32	4,588.13	5,362.14	5,256.36	105.78	50.693		
4,900.00	4,583.00	4,536.00	4,536.00	30.02	78.19	91.13	-3,056.32	4,588.13	5,362.97	5,254.76	108.21	49.562		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,624.61	4,624.61	30.90	79.74	91.56	-3,056.32	4,588.13	5,364.20	5,253.56	110.64	48.485		
5,100.00	4,760.22	4,713.22	4,713.22	31.79	81.28	92.00	-3,056.32	4,588.13	5,365.82	5,252.76	113.06	47.459		
5,200.00	4,848.83	4,801.83	4,801.83	32.67	82.83	92.44	-3,056.32	4,588.13	5,367.85	5,252.36	115.49	46.479		
5,300.00	4,937.44	4,909.56	4,890.44	33.56	84.71	92.88	-3,056.32	4,588.13	5,370.28	5,252.03	118.25	45.415		
5,400.00	5,026.05	4,979.05	4,979.05	34.45	85.92	93.32	-3,056.32	4,588.13	5,373.10	5,252.76	120.34	44.649		
5,500.00	5,114.66	5,067.66	5,067.66	35.34	87.47	93.75	-3,056.32	4,588.13	5,376.33	5,253.56	122.76	43.794		
5,600.00	5,203.27	5,156.27	5,156.27	36.23	89.02	94.19	-3,056.32	4,588.13	5,379.95	5,254.76	125.19	42.976		
5,700.00	5,291.88	5,244.88	5,244.88	37.12	90.56	94.63	-3,056.32	4,588.13	5,383.96	5,256.36	127.61	42.192		
5,800.00	5,380.50	5,333.50	5,333.50	38.01	92.11	95.06	-3,056.32	4,588.13	5,388.38	5,258.35	130.02	41.442		
5,900.00	5,469.11	5,422.11	5,422.11	38.90	93.66	95.50	-3,056.32	4,588.13	5,393.18	5,260.74	132.44	40.722		
6,000.00	5,557.72	5,510.72	5,510.72	39.79	95.20	95.93	-3,056.32	4,588.13	5,398.38	5,263.53	134.85	40.032		
6,100.00	5,646.33	5,600.67	5,599.33	40.68	96.77	96.37	-3,056.32	4,588.13	5,403.98	5,266.69	137.28	39.363		
6,200.00	5,734.94	5,687.94	5,687.94	41.58	98.30	96.80	-3,056.32	4,588.13	5,409.96	5,270.29	139.67	38.734		
6,300.00	5,823.55	5,776.55	5,776.55	42.47	99.84	97.23	-3,056.32	4,588.13	5,416.34	5,274.27	142.07	38.124		
6,400.00	5,912.16	5,865.16	5,865.16	43.36	101.39	97.66	-3,056.32	4,588.13	5,423.10	5,278.63	144.47	37.537		
6,500.00	6,000.77	5,953.77	5,953.77	44.26	102.94	98.09	-3,056.32	4,588.13	5,430.25	5,283.38	146.87	36.973		
6,600.00	6,089.38	6,042.38	6,042.38	45.15	104.48	98.52	-3,056.32	4,588.13	5,437.79	5,288.52	149.27	36.430		
6,700.00	6,177.99	6,130.99	6,130.99	46.05	106.03	98.95	-3,056.32	4,588.13	5,445.71	5,294.05	151.66	35.908		
6,800.00	6,266.60	6,219.60	6,219.60	46.94	107.58	99.38	-3,056.32	4,588.13	5,454.01	5,299.97	154.05	35.405		
6,900.00	6,355.21	6,308.21	6,308.21	47.84	109.12	99.81	-3,056.32	4,588.13	5,462.70	5,306.27	156.43	34.921		
7,000.00	6,443.82	6,403.18	6,398.82	48.74	110.78	100.23	-3,056.32	4,588.13	5,471.76	5,312.84	158.92	34.431		
7,100.00	6,532.43	6,485.43	6,485.43	49.63	112.21	100.66	-3,056.32	4,588.13	5,481.20	5,320.01	161.19	34.005		
7,200.00	6,621.04	6,574.04	6,574.04	50.53	113.76	101.08	-3,056.32	4,588.13	5,491.01	5,327.45	163.56	33.572		
7,300.00	6,709.65	6,662.65	6,662.65	51.42	115.31	101.50	-3,056.32	4,588.13	5,501.20	5,335.27	165.93	33.154		
7,400.00	6,798.26	6,751.26	6,751.26	52.32	116.85	101.92	-3,056.32	4,588.13	5,511.76	5,343.47	168.29	32.751		
7,500.00	6,886.87	6,839.87	6,839.87	53.22	118.40	102.34	-3,056.32	4,588.13	5,522.69	5,352.04	170.65	32.363		
7,600.00	6,975.48	6,928.48	6,928.48	54.12	119.95	102.76	-3,056.32	4,588.13	5,533.98	5,360.97	173.01	31.987		
7,656.30	7,025.36	6,978.36	6,978.36	54.62	120.82	102.99	-3,056.32	4,588.13	5,540.50	5,366.17	174.33	31.782		
7,700.00	7,064.54	7,017.54	7,017.54	55.00	121.50	96.19	-3,056.32	4,588.13	5,544.15	5,368.80	175.36	31.617		
7,750.00	7,110.29	7,063.29	7,063.29	55.40	122.30	86.36	-3,056.32	4,588.13	5,544.75	5,368.22	176.52	31.411		
7,800.00	7,156.67	7,109.67	7,109.67	55.75	123.11	74.50	-3,056.32	4,588.13	5,541.49	5,363.82	177.67	31.190		
7,850.00	7,203.34	7,156.34	7,156.34	56.05	123.92	61.39	-3,056.32	4,588.13	5,534.40	5,355.61	178.79	30.955		
7,900.00	7,249.95	7,202.95	7,202.95	56.30	124.74	48.34	-3,056.32	4,588.13	5,523.50	5,343.63	179.87	30.708		
7,950.00	7,296.14	7,249.14	7,249.14	56.50	125.54	36.51	-3,056.32	4,588.13	5,508.86	5,327.95	180.91	30.451		
8,000.00	7,341.56	7,305.44	7,294.56	56.64	126.53	26.41	-3,056.32	4,588.13	5,490.58	5,308.50	182.08	30.155		
8,050.00	7,385.86	7,338.86	7,338.86	56.74	127.11	17.96	-3,056.32	4,588.13	5,468.79	5,285.97	182.81	29.915		
8,100.00	7,428.71	7,381.71	7,381.71	56.79	127.86	10.80	-3,056.32	4,588.13	5,443.63	5,259.96	183.67	29.638		
8,150.00	7,469.77	7,422.77	7,422.77	56.80	128.57	4.53	-3,056.32	4,588.13	5,415.31	5,230.84	184.46	29.357		
8,200.00	7,508.75	7,461.75	7,461.75	56.77	129.25	-1.22	-3,056.32	4,588.13	5,384.02	5,198.83	185.19	29.073		
8,250.00	7,545.33	7,501.67	7,498.33	56.70	129.95	-6.77	-3,056.32	4,588.13	5,350.00	5,164.11	185.89	28.780		
8,300.00	7,579.25	7,532.25	7,532.25	56.59	130.49	-12.42	-3,056.32	4,588.13	5,313.52	5,127.12	186.40	28.506		
8,350.00	7,610.24	7,563.24	7,563.24	56.45	131.03	-18.46	-3,056.32	4,588.13	5,274.86	5,087.98	186.88	28.225		
8,400.00	7,638.06	7,608.94	7,591.06	56.28	131.82	-25.15	-3,056.32	4,588.13	5,234.32	5,046.73	187.60	27.902		
8,450.00	7,662.52	7,615.52	7,615.52	56.09	131.94	-32.75	-3,056.32	4,588.13	5,192.23	5,004.63	187.60	27.678		
8,500.00	7,683.41	7,636.41	7,636.41	55.88	132.30	-41.43	-3,056.32	4,588.13	5,148.92	4,961.09	187.82	27.414		
8,550.00	7,700.59	7,653.59	7,653.59	55.64	132.60	-51.20	-3,056.32	4,588.13	5,104.73	4,916.77	187.96	27.159		
8,600.00	7,713.91	7,666.91	7,666.91	55.39	132.84	-61.74	-3,056.32	4,588.13	5,060.02	4,872.01	188.01	26.914		
8,650.00	7,723.29	7,676.29	7,676.29	55.14	133.00	-72.45	-3,056.32	4,588.13	5,015.15	4,827.18	187.97	26.680		
8,700.00	7,728.64	7,681.64	7,681.64	54.87	133.09	-82.58	-3,056.32	4,588.13	4,970.50	4,782.65	187.85	26.460		
8,740.83	7,730.00	7,683.00	7,683.00	54.65	133.12	-90.00	-3,056.32	4,588.13	4,934.44	4,746.76	187.68	26.291		
8,800.00	7,730.00	7,683.00	7,683.00	54.33	133.12	-90.00	-3,056.32	4,588.13	4,882.64	4,695.24	187.41	26.054		
8,900.00	7,730.00	7,683.00	7,683.00	53.82	133.12	-90.00	-3,056.32	4,588.13	4,795.49	4,608.56	186.93	25.654		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,683.00	7,683.00	53.33	133.12	-90.00	-3,056.32	4,588.13	4,708.85	4,522.40	186.45	25.256		
9,100.00	7,730.00	7,683.00	7,683.00	52.87	133.12	-90.00	-3,056.32	4,588.13	4,622.74	4,436.79	185.95	24.860		
9,200.00	7,730.00	7,683.00	7,683.00	52.44	133.12	-90.00	-3,056.32	4,588.13	4,537.20	4,351.75	185.45	24.466		
9,300.00	7,730.00	7,683.00	7,683.00	52.03	133.12	-90.00	-3,056.32	4,588.13	4,452.27	4,267.33	184.94	24.074		
9,400.00	7,730.00	7,683.00	7,683.00	51.65	133.12	-90.00	-3,056.32	4,588.13	4,367.98	4,183.55	184.43	23.683		
9,500.00	7,730.00	7,683.00	7,683.00	51.29	133.12	-90.00	-3,056.32	4,588.13	4,284.36	4,100.44	183.92	23.295		
9,600.00	7,730.00	7,683.00	7,683.00	50.95	133.12	-90.00	-3,056.32	4,588.13	4,201.46	4,018.06	183.40	22.909		
9,700.00	7,730.00	7,683.00	7,683.00	50.64	133.12	-90.00	-3,056.32	4,588.13	4,119.31	3,936.43	182.88	22.525		
9,800.00	7,730.00	7,683.00	7,683.00	50.35	133.12	-90.00	-3,056.32	4,588.13	4,037.98	3,855.61	182.36	22.143		
9,900.00	7,730.00	7,683.00	7,683.00	50.09	133.12	-90.00	-3,056.32	4,588.13	3,957.49	3,775.64	181.85	21.762		
10,000.00	7,730.00	7,683.00	7,683.00	49.86	133.12	-90.00	-3,056.32	4,588.13	3,877.92	3,696.57	181.35	21.384		
10,100.00	7,730.00	7,683.00	7,683.00	49.65	133.12	-90.00	-3,056.32	4,588.13	3,799.31	3,618.45	180.86	21.007		
10,200.00	7,730.00	7,683.00	7,683.00	49.48	133.12	-90.00	-3,056.32	4,588.13	3,721.73	3,541.34	180.39	20.631		
10,300.00	7,730.00	7,683.00	7,683.00	49.35	133.12	-90.00	-3,056.32	4,588.13	3,645.24	3,465.29	179.95	20.257		
10,400.00	7,730.00	7,683.00	7,683.00	49.27	133.12	-90.00	-3,056.32	4,588.13	3,569.91	3,390.38	179.53	19.885		
10,500.00	7,730.00	7,683.00	7,683.00	49.26	133.12	-90.00	-3,056.32	4,588.13	3,495.82	3,316.67	179.15	19.513		
10,600.00	7,730.00	7,683.00	7,683.00	49.32	133.12	-90.00	-3,056.32	4,588.13	3,423.05	3,244.23	178.82	19.142		
10,700.00	7,730.00	7,683.00	7,683.00	49.51	133.12	-90.00	-3,056.32	4,588.13	3,351.68	3,173.13	178.55	18.772		
10,800.00	7,730.00	7,683.00	7,683.00	49.83	133.12	-90.00	-3,056.32	4,588.13	3,281.81	3,103.47	178.34	18.402		
10,900.00	7,730.00	7,683.00	7,683.00	50.31	133.12	-90.00	-3,056.32	4,588.13	3,213.53	3,035.32	178.21	18.032		
11,000.00	7,730.00	7,683.00	7,683.00	50.96	133.12	-90.00	-3,056.32	4,588.13	3,146.95	2,968.78	178.17	17.663		
11,100.00	7,730.00	7,683.00	7,683.00	51.75	133.12	-90.00	-3,056.32	4,588.13	3,082.17	2,903.94	178.23	17.293		
11,200.00	7,730.00	7,683.00	7,683.00	52.66	133.12	-90.00	-3,056.32	4,588.13	3,019.32	2,840.91	178.40	16.924		
11,300.00	7,730.00	7,683.00	7,683.00	53.67	133.12	-90.00	-3,056.32	4,588.13	2,958.51	2,779.80	178.71	16.555		
11,400.00	7,730.00	7,683.00	7,683.00	54.75	133.12	-90.00	-3,056.32	4,588.13	2,899.88	2,720.73	179.15	16.187		
11,500.00	7,730.00	7,683.00	7,683.00	55.89	133.12	-90.00	-3,056.32	4,588.13	2,843.55	2,663.81	179.74	15.820		
11,600.00	7,730.00	7,683.00	7,683.00	57.07	133.12	-90.00	-3,056.32	4,588.13	2,789.68	2,609.19	180.49	15.456		
11,700.00	7,730.00	7,683.00	7,683.00	58.30	133.12	-90.00	-3,056.32	4,588.13	2,738.39	2,556.99	181.41	15.095		
11,800.00	7,730.00	7,683.00	7,683.00	59.55	133.12	-90.00	-3,056.32	4,588.13	2,689.85	2,507.36	182.49	14.740		
11,900.00	7,730.00	7,683.00	7,683.00	60.84	133.12	-90.00	-3,056.32	4,588.13	2,644.20	2,460.46	183.74	14.391		
12,000.00	7,730.00	7,683.00	7,683.00	62.15	133.12	-90.00	-3,056.32	4,588.13	2,601.60	2,416.44	185.16	14.050		
12,100.00	7,730.00	7,683.00	7,683.00	63.49	133.12	-90.00	-3,056.32	4,588.13	2,562.19	2,375.45	186.74	13.721		
12,200.00	7,730.00	7,683.00	7,683.00	64.85	133.12	-90.00	-3,056.32	4,588.13	2,526.13	2,337.66	188.47	13.403		
12,300.00	7,730.00	7,683.00	7,683.00	66.22	133.12	-90.00	-3,056.32	4,588.13	2,493.56	2,303.22	190.34	13.101		
12,400.00	7,730.00	7,683.00	7,683.00	67.62	133.12	-90.00	-3,056.32	4,588.13	2,464.61	2,272.28	192.33	12.814		
12,500.00	7,730.00	7,683.00	7,683.00	69.03	133.12	-90.00	-3,056.32	4,588.13	2,439.43	2,245.01	194.43	12.547		
12,600.00	7,730.00	7,683.00	7,683.00	70.45	133.12	-90.00	-3,056.32	4,588.13	2,418.13	2,221.52	196.60	12.299		
12,700.00	7,730.00	7,683.00	7,683.00	71.90	133.12	-90.00	-3,056.32	4,588.13	2,400.80	2,201.95	198.84	12.074		
12,800.00	7,730.00	7,683.00	7,683.00	73.35	133.12	-90.00	-3,056.32	4,588.13	2,387.54	2,186.41	201.12	11.871		
12,900.00	7,730.00	7,683.00	7,683.00	74.81	133.12	-90.00	-3,056.32	4,588.13	2,378.41	2,174.99	203.42	11.692		
13,000.00	7,730.00	7,683.00	7,683.00	76.29	133.12	-90.00	-3,056.32	4,588.13	2,373.47	2,167.76	205.71	11.538		
13,067.48	7,730.00	7,683.00	7,683.00	77.30	133.12	-90.00	-3,056.32	4,588.13	2,372.51	2,165.27	207.24	11.448 CC		
13,100.00	7,730.00	7,683.00	7,683.00	77.78	133.12	-90.00	-3,056.32	4,588.13	2,372.73	2,164.76	207.97	11.409 ES		
13,200.00	7,730.00	7,683.00	7,683.00	79.28	133.12	-90.00	-3,056.32	4,588.13	2,376.20	2,166.02	210.18	11.305		
13,300.00	7,730.00	7,683.00	7,683.00	80.79	133.12	-90.00	-3,056.32	4,588.13	2,383.87	2,171.54	212.33	11.227		
13,400.00	7,730.00	7,683.00	7,683.00	82.31	133.12	-90.00	-3,056.32	4,588.13	2,395.70	2,181.30	214.39	11.174		
13,500.00	7,730.00	7,683.00	7,683.00	83.84	133.12	-90.00	-3,056.32	4,588.13	2,411.61	2,195.25	216.36	11.146		
13,600.00	7,730.00	7,683.00	7,683.00	85.37	133.12	-90.00	-3,056.32	4,588.13	2,431.53	2,213.32	218.22	11.143 SF		
13,700.00	7,730.00	7,683.00	7,683.00	86.92	133.12	-90.00	-3,056.32	4,588.13	2,455.37	2,235.41	219.96	11.163		
13,800.00	7,730.00	7,683.00	7,683.00	88.47	133.12	-90.00	-3,056.32	4,588.13	2,483.02	2,261.43	221.58	11.206		
13,900.00	7,730.00	7,683.00	7,683.00	90.03	133.12	-90.00	-3,056.32	4,588.13	2,514.33	2,291.25	223.08	11.271		
14,000.00	7,730.00	7,683.00	7,683.00	91.59	133.12	-90.00	-3,056.32	4,588.13	2,549.19	2,324.73	224.46	11.357		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,683.00	7,683.00	93.16	133.12	-90.00	-3,056.32	4,588.13	2,587.45	2,361.73	225.71	11.464		
14,200.00	7,730.00	7,683.00	7,683.00	94.74	133.12	-90.00	-3,056.32	4,588.13	2,628.95	2,402.11	226.84	11.589		
14,300.00	7,730.00	7,683.00	7,683.00	96.33	133.12	-90.00	-3,056.32	4,588.13	2,673.55	2,445.69	227.86	11.733		
14,400.00	7,730.00	7,683.00	7,683.00	97.92	133.12	-90.00	-3,056.32	4,588.13	2,721.10	2,492.33	228.77	11.894		
14,500.00	7,730.00	7,683.00	7,683.00	99.51	133.12	-90.00	-3,056.32	4,588.13	2,771.44	2,541.87	229.57	12.072		
14,600.00	7,730.00	7,683.00	7,683.00	101.11	133.12	-90.00	-3,056.32	4,588.13	2,824.43	2,594.15	230.28	12.265		
14,700.00	7,730.00	7,683.00	7,683.00	102.72	133.12	-90.00	-3,056.32	4,588.13	2,879.91	2,649.02	230.90	12.473		
14,800.00	7,730.00	7,683.00	7,683.00	104.33	133.12	-90.00	-3,056.32	4,588.13	2,937.75	2,706.33	231.43	12.694		
14,900.00	7,730.00	7,683.00	7,683.00	105.94	133.12	-90.00	-3,056.32	4,588.13	2,997.82	2,765.93	231.88	12.928		
15,000.00	7,730.00	7,683.00	7,683.00	107.56	133.12	-90.00	-3,056.32	4,588.13	3,059.97	2,827.70	232.27	13.174		
15,100.00	7,730.00	7,683.00	7,683.00	109.18	133.12	-90.00	-3,056.32	4,588.13	3,124.09	2,891.49	232.59	13.432		
15,200.00	7,730.00	7,683.00	7,683.00	110.81	133.12	-90.00	-3,056.32	4,588.13	3,190.05	2,957.19	232.86	13.700		
15,300.00	7,730.00	7,683.00	7,683.00	112.44	133.12	-90.00	-3,056.32	4,588.13	3,257.75	3,024.68	233.07	13.978		
15,400.00	7,730.00	7,683.00	7,683.00	114.08	133.12	-90.00	-3,056.32	4,588.13	3,327.07	3,093.84	233.23	14.265		
15,500.00	7,730.00	7,683.00	7,683.00	115.72	133.12	-90.00	-3,056.32	4,588.13	3,397.93	3,164.57	233.36	14.561		
15,600.00	7,730.00	7,683.00	7,683.00	117.36	133.12	-90.00	-3,056.32	4,588.13	3,470.22	3,236.77	233.44	14.865		
15,700.00	7,730.00	7,683.00	7,683.00	119.00	133.12	-90.00	-3,056.32	4,588.13	3,543.86	3,310.36	233.50	15.177		
15,800.00	7,730.00	7,683.00	7,683.00	120.65	133.12	-90.00	-3,056.32	4,588.13	3,618.76	3,385.24	233.52	15.496		
15,900.00	7,730.00	7,683.00	7,683.00	122.30	133.12	-90.00	-3,056.32	4,588.13	3,694.85	3,461.33	233.52	15.822		
16,000.00	7,730.00	7,683.00	7,683.00	123.96	133.12	-90.00	-3,056.32	4,588.13	3,772.06	3,538.56	233.50	16.154		
16,100.00	7,730.00	7,683.00	7,683.00	125.61	133.12	-90.00	-3,056.32	4,588.13	3,850.32	3,616.86	233.46	16.493		
16,200.00	7,730.00	7,683.00	7,683.00	127.27	133.12	-90.00	-3,056.32	4,588.13	3,929.56	3,696.16	233.40	16.836		
16,300.00	7,730.00	7,683.00	7,683.00	128.94	133.12	-90.00	-3,056.32	4,588.13	4,009.73	3,776.41	233.32	17.185		
16,400.00	7,730.00	7,683.00	7,683.00	130.60	133.12	-90.00	-3,056.32	4,588.13	4,090.78	3,857.54	233.24	17.539		
16,500.00	7,730.00	7,683.00	7,683.00	132.27	133.12	-90.00	-3,056.32	4,588.13	4,172.64	3,939.51	233.14	17.898		
16,600.00	7,730.00	7,683.00	7,683.00	133.94	133.12	-90.00	-3,056.32	4,588.13	4,255.29	4,022.26	233.03	18.261		
16,700.00	7,730.00	7,683.00	7,683.00	135.61	133.12	-90.00	-3,056.32	4,588.13	4,338.66	4,105.75	232.91	18.628		
16,800.00	7,730.00	7,683.00	7,683.00	137.28	133.12	-90.00	-3,056.32	4,588.13	4,422.72	4,189.93	232.79	18.999		
16,900.00	7,730.00	7,683.00	7,683.00	138.96	133.12	-90.00	-3,056.32	4,588.13	4,507.43	4,274.77	232.66	19.374		
17,000.00	7,730.00	7,683.00	7,683.00	140.64	133.12	-90.00	-3,056.32	4,588.13	4,592.76	4,360.24	232.53	19.752		
17,100.00	7,730.00	7,683.00	7,683.00	142.32	133.12	-90.00	-3,056.32	4,588.13	4,678.67	4,446.28	232.39	20.133		
17,200.00	7,730.00	7,683.00	7,683.00	144.00	133.12	-90.00	-3,056.32	4,588.13	4,765.13	4,532.88	232.25	20.517		
17,300.00	7,730.00	7,683.00	7,683.00	145.69	133.12	-90.00	-3,056.32	4,588.13	4,852.11	4,620.00	232.11	20.905		
17,400.00	7,730.00	7,683.00	7,683.00	147.37	133.12	-90.00	-3,056.32	4,588.13	4,939.58	4,707.62	231.96	21.295		
17,500.00	7,730.00	7,683.00	7,683.00	149.06	133.12	-90.00	-3,056.32	4,588.13	5,027.52	4,795.71	231.82	21.687		
17,600.00	7,730.00	7,683.00	7,683.00	150.75	133.12	-90.00	-3,056.32	4,588.13	5,115.91	4,884.23	231.67	22.083		
17,700.00	7,730.00	7,683.00	7,683.00	152.44	133.12	-90.00	-3,056.32	4,588.13	5,204.71	4,973.18	231.53	22.480		
17,800.00	7,730.00	7,683.00	7,683.00	154.13	133.12	-90.00	-3,056.32	4,588.13	5,293.91	5,062.53	231.38	22.880		
17,900.00	7,730.00	7,683.00	7,683.00	155.83	133.12	-90.00	-3,056.32	4,588.13	5,383.49	5,152.26	231.24	23.281		
18,000.00	7,730.00	7,683.00	7,683.00	157.52	133.12	-90.00	-3,056.32	4,588.13	5,473.44	5,242.34	231.09	23.685		
18,100.00	7,730.00	7,683.00	7,683.00	159.22	133.12	-90.00	-3,056.32	4,588.13	5,563.72	5,332.77	230.95	24.091		
18,200.00	7,730.00	7,683.00	7,683.00	160.92	133.12	-90.00	-3,056.32	4,588.13	5,654.33	5,423.53	230.81	24.498		
18,300.00	7,730.00	7,683.00	7,683.00	162.62	133.12	-90.00	-3,056.32	4,588.13	5,745.26	5,514.59	230.67	24.907		
18,400.00	7,730.00	7,683.00	7,683.00	164.32	133.12	-90.00	-3,056.32	4,588.13	5,836.48	5,605.95	230.53	25.318		
18,426.22	7,730.00	7,683.00	7,683.00	164.76	133.12	-90.00	-3,056.32	4,588.13	5,860.45	5,629.95	230.49	25.426		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	104.94	-1,580.67	5,923.55	6,131.07					
100.00	100.00	45.00	45.00	0.13	0.35	104.94	-1,580.67	5,923.55	6,130.82	6,130.34	0.48	N/A		
200.00	200.00	145.00	145.00	0.49	1.55	104.94	-1,580.67	5,923.55	6,130.82	6,128.78	2.05	2,996.137		
300.00	300.00	245.00	245.00	0.85	3.30	104.94	-1,580.67	5,923.55	6,130.82	6,126.67	4.15	1,477.291		
400.00	400.00	345.00	345.00	1.21	5.04	104.94	-1,580.67	5,923.55	6,130.82	6,124.57	6.25	980.329		
500.00	500.00	445.00	445.00	1.57	6.79	104.94	-1,580.67	5,923.55	6,130.82	6,122.47	8.36	733.559		
600.00	600.00	545.00	545.00	1.93	8.53	104.94	-1,580.67	5,923.55	6,130.82	6,120.36	10.46	586.040		
700.00	700.00	645.00	645.00	2.29	10.28	104.94	-1,580.67	5,923.55	6,130.82	6,118.26	12.57	487.919		
800.00	800.00	745.00	745.00	2.64	12.03	104.94	-1,580.67	5,923.55	6,130.82	6,116.15	14.67	417.943		
900.00	900.00	845.00	845.00	3.00	13.77	104.94	-1,580.67	5,923.55	6,130.82	6,114.05	16.77	365.521		
1,000.00	1,000.00	945.00	945.00	3.36	15.52	104.94	-1,580.67	5,923.55	6,130.82	6,111.95	18.88	324.783		
1,100.00	1,100.00	1,045.00	1,045.00	3.72	17.26	104.94	-1,580.67	5,923.55	6,130.82	6,109.84	20.98	292.216		
1,200.00	1,200.00	1,145.00	1,145.00	4.08	19.01	104.94	-1,580.67	5,923.55	6,130.82	6,107.74	23.08	265.585		
1,300.00	1,299.98	1,244.98	1,244.98	4.43	20.75	57.85	-1,580.67	5,923.55	6,129.89	6,104.71	25.18	243.399		
1,400.00	1,399.84	1,344.84	1,344.84	4.79	22.49	57.94	-1,580.67	5,923.55	6,127.11	6,099.83	27.28	224.596		
1,500.00	1,499.45	1,444.45	1,444.45	5.15	24.23	58.09	-1,580.67	5,923.55	6,122.48	6,093.10	29.37	208.426		
1,600.00	1,598.70	1,543.70	1,543.70	5.51	25.97	58.29	-1,580.67	5,923.55	6,116.02	6,084.55	31.47	194.361		
1,700.00	1,697.47	1,642.47	1,642.47	5.89	27.69	58.56	-1,580.67	5,923.55	6,107.75	6,074.20	33.56	181.999		
1,800.00	1,795.62	1,740.62	1,740.62	6.28	29.40	58.88	-1,580.67	5,923.55	6,097.71	6,062.06	35.65	171.033		
1,900.00	1,893.06	1,838.06	1,838.06	6.69	31.10	59.26	-1,580.67	5,923.55	6,085.93	6,048.18	37.75	161.224		
2,000.00	1,989.64	1,934.64	1,934.64	7.13	32.79	59.70	-1,580.67	5,923.55	6,072.45	6,032.60	39.85	152.384		
2,100.00	2,085.27	2,030.27	2,030.27	7.61	34.46	60.20	-1,580.67	5,923.55	6,057.31	6,015.35	41.96	144.362		
2,200.00	2,179.82	2,124.82	2,124.82	8.12	36.11	60.75	-1,580.67	5,923.55	6,040.58	5,996.50	44.08	137.040		
2,300.00	2,273.17	2,218.17	2,218.17	8.67	37.74	61.36	-1,580.67	5,923.55	6,022.31	5,976.10	46.21	130.318		
2,400.00	2,365.21	2,310.21	2,310.21	9.27	39.34	62.02	-1,580.67	5,923.55	6,002.58	5,954.22	48.36	124.119		
2,500.00	2,455.84	2,400.84	2,400.84	9.92	40.93	62.74	-1,580.67	5,923.55	5,981.45	5,930.92	50.53	118.377		
2,580.62	2,527.80	2,472.80	2,472.80	10.49	42.18	63.35	-1,580.67	5,923.55	5,963.44	5,911.15	52.29	114.044		
2,600.00	2,544.97	2,489.97	2,489.97	10.63	42.48	63.42	-1,580.67	5,923.55	5,959.02	5,906.31	52.72	113.039		
2,700.00	2,633.58	2,578.58	2,578.58	11.37	44.03	63.78	-1,580.67	5,923.55	5,936.37	5,881.44	54.93	108.075		
2,800.00	2,722.19	2,667.19	2,667.19	12.13	45.57	64.15	-1,580.67	5,923.55	5,914.00	5,856.83	57.16	103.455		
2,900.00	2,810.80	2,755.80	2,755.80	12.91	47.12	64.52	-1,580.67	5,923.55	5,891.90	5,832.48	59.42	99.154		
3,000.00	2,899.41	2,844.41	2,844.41	13.71	48.67	64.89	-1,580.67	5,923.55	5,870.09	5,808.39	61.70	95.143		
3,100.00	2,988.02	2,933.02	2,933.02	14.52	50.21	65.26	-1,580.67	5,923.55	5,848.56	5,784.57	63.99	91.398		
3,200.00	3,076.63	3,021.63	3,021.63	15.34	51.76	65.64	-1,580.67	5,923.55	5,827.33	5,761.03	66.30	87.898		
3,300.00	3,165.24	3,110.24	3,110.24	16.16	53.31	66.01	-1,580.67	5,923.55	5,806.38	5,737.77	68.62	84.621		
3,400.00	3,253.85	3,201.15	3,198.85	17.00	54.89	66.39	-1,580.67	5,923.55	5,785.73	5,714.74	70.99	81.503		
3,500.00	3,342.46	3,287.46	3,287.46	17.84	56.40	66.78	-1,580.67	5,923.55	5,765.38	5,692.09	73.29	78.665		
3,600.00	3,431.07	3,376.07	3,376.07	18.69	57.95	67.16	-1,580.67	5,923.55	5,745.33	5,669.69	75.64	75.953		
3,700.00	3,519.68	3,464.68	3,464.68	19.55	59.49	67.55	-1,580.67	5,923.55	5,725.59	5,647.58	78.00	73.401		
3,800.00	3,608.29	3,553.29	3,553.29	20.40	61.04	67.94	-1,580.67	5,923.55	5,706.15	5,625.78	80.37	70.995		
3,900.00	3,696.90	3,641.90	3,641.90	21.26	62.59	68.33	-1,580.67	5,923.55	5,687.03	5,604.28	82.75	68.723		
4,000.00	3,785.51	3,730.51	3,730.51	22.13	64.13	68.72	-1,580.67	5,923.55	5,668.22	5,583.08	85.14	66.577		
4,100.00	3,874.12	3,819.12	3,819.12	23.00	65.68	69.11	-1,580.67	5,923.55	5,649.73	5,562.20	87.53	64.546		
4,200.00	3,962.73	3,907.73	3,907.73	23.87	67.23	69.51	-1,580.67	5,923.55	5,631.55	5,541.63	89.93	62.622		
4,300.00	4,051.34	4,003.66	3,996.34	24.74	68.90	69.91	-1,580.67	5,923.55	5,613.71	5,521.25	92.46	60.714		
4,400.00	4,139.95	4,084.95	4,084.95	25.62	70.32	70.31	-1,580.67	5,923.55	5,596.19	5,501.44	94.74	59.066		
4,500.00	4,228.56	4,173.56	4,173.56	26.49	71.87	70.71	-1,580.67	5,923.55	5,579.00	5,481.83	97.16	57.420		
4,600.00	4,317.17	4,262.17	4,262.17	27.37	73.41	71.12	-1,580.67	5,923.55	5,562.14	5,462.55	99.58	55.854		
4,700.00	4,405.78	4,350.78	4,350.78	28.25	74.96	71.52	-1,580.67	5,923.55	5,545.62	5,443.61	102.01	54.364		
4,800.00	4,494.39	4,439.39	4,439.39	29.13	76.50	71.93	-1,580.67	5,923.55	5,529.43	5,424.99	104.44	52.943		
4,900.00	4,583.00	4,528.00	4,528.00	30.02	78.05	72.34	-1,580.67	5,923.55	5,513.59	5,406.72	106.88	51.588		
5,000.00	4,671.61	4,616.61	4,616.61	30.90	79.60	72.76	-1,580.67	5,923.55	5,498.10	5,388.78	109.32	50.295		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,705.22	4,705.22	31.79	81.14	73.17	-1,580.67	5,923.55	5,482.95	5,371.19	111.76	49.059		
5,200.00	4,848.83	4,806.17	4,793.83	32.67	82.91	73.59	-1,580.67	5,923.55	5,468.15	5,353.73	114.43	47.788		
5,300.00	4,937.44	4,882.44	4,882.44	33.56	84.24	74.01	-1,580.67	5,923.55	5,453.71	5,337.05	116.66	46.748		
5,400.00	5,026.05	4,971.05	4,971.05	34.45	85.78	74.43	-1,580.67	5,923.55	5,439.63	5,320.51	119.12	45.666		
5,500.00	5,114.66	5,059.66	5,059.66	35.34	87.33	74.85	-1,580.67	5,923.55	5,425.90	5,304.32	121.58	44.630		
5,600.00	5,203.27	5,148.27	5,148.27	36.23	88.88	75.27	-1,580.67	5,923.55	5,412.54	5,288.50	124.04	43.636		
5,700.00	5,291.88	5,236.88	5,236.88	37.12	90.42	75.70	-1,580.67	5,923.55	5,399.54	5,273.03	126.50	42.683		
5,800.00	5,380.50	5,325.50	5,325.50	38.01	91.97	76.12	-1,580.67	5,923.55	5,386.90	5,257.94	128.97	41.769		
5,900.00	5,469.11	5,414.11	5,414.11	38.90	93.52	76.55	-1,580.67	5,923.55	5,374.64	5,243.20	131.44	40.891		
6,000.00	5,557.72	5,502.72	5,502.72	39.79	95.06	76.98	-1,580.67	5,923.55	5,362.75	5,228.84	133.91	40.047		
6,100.00	5,646.33	5,608.67	5,591.33	40.68	96.91	77.41	-1,580.67	5,923.55	5,351.24	5,214.55	136.69	39.150		
6,200.00	5,734.94	5,679.94	5,679.94	41.58	98.16	77.84	-1,580.67	5,923.55	5,340.10	5,201.24	138.86	38.457		
6,300.00	5,823.55	5,768.55	5,768.55	42.47	99.70	78.28	-1,580.67	5,923.55	5,329.34	5,188.01	141.34	37.707		
6,400.00	5,912.16	5,857.16	5,857.16	43.36	101.25	78.71	-1,580.67	5,923.55	5,318.97	5,175.15	143.82	36.984		
6,500.00	6,000.77	5,945.77	5,945.77	44.26	102.80	79.15	-1,580.67	5,923.55	5,308.98	5,162.68	146.30	36.289		
6,600.00	6,089.38	6,034.38	6,034.38	45.15	104.34	79.59	-1,580.67	5,923.55	5,299.37	5,150.60	148.78	35.619		
6,700.00	6,177.99	6,122.99	6,122.99	46.05	105.89	80.03	-1,580.67	5,923.55	5,290.16	5,138.90	151.26	34.974		
6,800.00	6,266.60	6,211.60	6,211.60	46.94	107.44	80.47	-1,580.67	5,923.55	5,281.33	5,127.59	153.74	34.352		
6,900.00	6,355.21	6,300.21	6,300.21	47.84	108.98	80.91	-1,580.67	5,923.55	5,272.90	5,116.67	156.23	33.752		
7,000.00	6,443.82	6,388.82	6,388.82	48.74	110.53	81.35	-1,580.67	5,923.55	5,264.86	5,106.15	158.71	33.173		
7,100.00	6,532.43	6,477.43	6,477.43	49.63	112.08	81.80	-1,580.67	5,923.55	5,257.22	5,096.03	161.19	32.614		
7,200.00	6,621.04	6,566.04	6,566.04	50.53	113.62	82.24	-1,580.67	5,923.55	5,249.98	5,086.30	163.68	32.075		
7,300.00	6,709.65	6,654.65	6,654.65	51.42	115.17	82.69	-1,580.67	5,923.55	5,243.14	5,076.97	166.16	31.554		
7,400.00	6,798.26	6,743.26	6,743.26	52.32	116.71	83.13	-1,580.67	5,923.55	5,236.69	5,068.05	168.65	31.051		
7,500.00	6,886.87	6,831.87	6,831.87	53.22	118.26	83.58	-1,580.67	5,923.55	5,230.65	5,059.53	171.13	30.566		
7,600.00	6,975.48	6,920.48	6,920.48	54.12	119.81	84.03	-1,580.67	5,923.55	5,225.02	5,051.41	173.61	30.096		
7,656.30	7,025.36	6,970.36	6,970.36	54.62	120.68	84.28	-1,580.67	5,923.55	5,222.03	5,047.02	175.01	29.839		
7,700.00	7,064.54	7,009.54	7,009.54	55.00	121.36	77.08	-1,580.67	5,923.55	5,218.62	5,042.54	176.08	29.638		
7,750.00	7,110.29	7,055.29	7,055.29	55.40	122.16	66.75	-1,580.67	5,923.55	5,211.94	5,034.66	177.28	29.399		
7,800.00	7,156.67	7,101.67	7,101.67	55.75	122.97	54.32	-1,580.67	5,923.55	5,202.32	5,023.88	178.44	29.154		
7,850.00	7,203.34	7,148.34	7,148.34	56.05	123.78	40.57	-1,580.67	5,923.55	5,189.80	5,010.25	179.55	28.904		
7,900.00	7,249.95	7,205.05	7,194.95	56.30	124.77	26.78	-1,580.67	5,923.55	5,174.45	4,993.68	180.77	28.624		
7,950.00	7,296.14	7,241.14	7,241.14	56.50	125.40	14.13	-1,580.67	5,923.55	5,156.37	4,974.79	181.58	28.397		
8,000.00	7,341.56	7,286.56	7,286.56	56.64	126.20	3.11	-1,580.67	5,923.55	5,135.68	4,953.20	182.49	28.143		
8,050.00	7,385.86	7,330.86	7,330.86	56.74	126.97	-6.35	-1,580.67	5,923.55	5,112.54	4,929.22	183.32	27.889		
8,100.00	7,428.71	7,373.71	7,373.71	56.79	127.72	-14.59	-1,580.67	5,923.55	5,087.13	4,903.06	184.07	27.637		
8,150.00	7,469.77	7,414.77	7,414.77	56.80	128.43	-21.98	-1,580.67	5,923.55	5,059.64	4,874.90	184.74	27.388		
8,200.00	7,508.75	7,453.75	7,453.75	56.77	129.12	-28.84	-1,580.67	5,923.55	5,030.30	4,844.98	185.32	27.144		
8,250.00	7,545.33	7,509.67	7,490.33	56.70	130.09	-35.38	-1,580.67	5,923.55	4,999.35	4,813.21	186.14	26.858		
8,300.00	7,579.25	7,524.25	7,524.25	56.59	130.35	-41.78	-1,580.67	5,923.55	4,967.07	4,780.87	186.20	26.676		
8,350.00	7,610.24	7,555.24	7,555.24	56.45	130.89	-48.10	-1,580.67	5,923.55	4,933.72	4,747.22	186.50	26.454		
8,400.00	7,638.06	7,583.06	7,583.06	56.28	131.37	-54.37	-1,580.67	5,923.55	4,899.60	4,712.90	186.70	26.243		
8,450.00	7,662.52	7,607.52	7,607.52	56.09	131.80	-60.55	-1,580.67	5,923.55	4,865.02	4,678.21	186.81	26.043		
8,500.00	7,683.41	7,628.41	7,628.41	55.88	132.16	-66.56	-1,580.67	5,923.55	4,830.28	4,643.46	186.81	25.856		
8,550.00	7,700.59	7,645.59	7,645.59	55.64	132.46	-72.29	-1,580.67	5,923.55	4,795.69	4,608.96	186.73	25.683		
8,600.00	7,713.91	7,658.91	7,658.91	55.39	132.70	-77.64	-1,580.67	5,923.55	4,761.56	4,575.01	186.55	25.525		
8,650.00	7,723.29	7,668.29	7,668.29	55.14	132.86	-82.52	-1,580.67	5,923.55	4,728.20	4,541.92	186.27	25.383		
8,700.00	7,728.64	7,673.64	7,673.64	54.87	132.95	-86.87	-1,580.67	5,923.55	4,695.90	4,509.99	185.91	25.258		
8,740.83	7,730.00	7,675.00	7,675.00	54.65	132.98	-90.00	-1,580.67	5,923.55	4,670.52	4,484.96	185.56	25.170		
8,800.00	7,730.00	7,675.00	7,675.00	54.33	132.98	-90.00	-1,580.67	5,923.55	4,634.70	4,449.69	185.00	25.052		
8,900.00	7,730.00	7,675.00	7,675.00	53.82	132.98	-90.00	-1,580.67	5,923.55	4,575.25	4,391.18	184.07	24.855		
9,000.00	7,730.00	7,675.00	7,675.00	53.33	132.98	-90.00	-1,580.67	5,923.55	4,517.24	4,334.09	183.15	24.664		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,675.00	7,675.00	52.87	132.98	-90.00	-1,580.67	5,923.55	4,460.72	4,278.47	182.25	24.476		
9,200.00	7,730.00	7,675.00	7,675.00	52.44	132.98	-90.00	-1,580.67	5,923.55	4,405.74	4,224.38	181.36	24.292		
9,300.00	7,730.00	7,675.00	7,675.00	52.03	132.98	-90.00	-1,580.67	5,923.55	4,352.37	4,171.86	180.51	24.112		
9,400.00	7,730.00	7,675.00	7,675.00	51.65	132.98	-90.00	-1,580.67	5,923.55	4,300.66	4,120.97	179.69	23.934		
9,500.00	7,730.00	7,675.00	7,675.00	51.29	132.98	-90.00	-1,580.67	5,923.55	4,250.67	4,071.76	178.91	23.759		
9,600.00	7,730.00	7,675.00	7,675.00	50.95	132.98	-90.00	-1,580.67	5,923.55	4,202.47	4,024.28	178.18	23.585		
9,700.00	7,730.00	7,675.00	7,675.00	50.64	132.98	-90.00	-1,580.67	5,923.55	4,156.11	3,978.59	177.52	23.411		
9,800.00	7,730.00	7,675.00	7,675.00	50.35	132.98	-90.00	-1,580.67	5,923.55	4,111.67	3,934.73	176.94	23.238		
9,900.00	7,730.00	7,675.00	7,675.00	50.09	132.98	-90.00	-1,580.67	5,923.55	4,069.20	3,892.76	176.44	23.063		
10,000.00	7,730.00	7,675.00	7,675.00	49.86	132.98	-90.00	-1,580.67	5,923.55	4,028.76	3,852.73	176.03	22.887		
10,100.00	7,730.00	7,675.00	7,675.00	49.65	132.98	-90.00	-1,580.67	5,923.55	3,990.42	3,814.69	175.73	22.708		
10,200.00	7,730.00	7,675.00	7,675.00	49.48	132.98	-90.00	-1,580.67	5,923.55	3,954.24	3,778.69	175.55	22.525		
10,300.00	7,730.00	7,675.00	7,675.00	49.35	132.98	-90.00	-1,580.67	5,923.55	3,920.27	3,744.79	175.49	22.340		
10,400.00	7,730.00	7,675.00	7,675.00	49.27	132.98	-90.00	-1,580.67	5,923.55	3,888.58	3,713.03	175.56	22.150		
10,500.00	7,730.00	7,675.00	7,675.00	49.26	132.98	-90.00	-1,580.67	5,923.55	3,859.22	3,683.46	175.77	21.957		
10,600.00	7,730.00	7,675.00	7,675.00	49.32	132.98	-90.00	-1,580.67	5,923.55	3,832.25	3,656.14	176.12	21.760		
10,700.00	7,730.00	7,675.00	7,675.00	49.51	132.98	-90.00	-1,580.67	5,923.55	3,807.72	3,631.11	176.61	21.560		
10,800.00	7,730.00	7,675.00	7,675.00	49.83	132.98	-90.00	-1,580.67	5,923.55	3,785.66	3,608.42	177.24	21.359		
10,900.00	7,730.00	7,675.00	7,675.00	50.31	132.98	-90.00	-1,580.67	5,923.55	3,766.14	3,588.12	178.01	21.156		
11,000.00	7,730.00	7,675.00	7,675.00	50.96	132.98	-90.00	-1,580.67	5,923.55	3,749.18	3,570.26	178.92	20.955		
11,100.00	7,730.00	7,675.00	7,675.00	51.75	132.98	-90.00	-1,580.67	5,923.55	3,734.82	3,554.87	179.94	20.755		
11,200.00	7,730.00	7,675.00	7,675.00	52.66	132.98	-90.00	-1,580.67	5,923.55	3,723.09	3,542.01	181.09	20.560		
11,300.00	7,730.00	7,675.00	7,675.00	53.67	132.98	-90.00	-1,580.67	5,923.55	3,714.02	3,531.69	182.33	20.369		
11,400.00	7,730.00	7,675.00	7,675.00	54.75	132.98	-90.00	-1,580.67	5,923.55	3,707.63	3,523.95	183.68	20.186		
11,500.00	7,730.00	7,675.00	7,675.00	55.89	132.98	-90.00	-1,580.67	5,923.55	3,703.92	3,518.82	185.10	20.010		
11,587.29	7,730.00	7,675.00	7,675.00	56.92	132.98	-90.00	-1,580.67	5,923.55	3,702.89	3,516.49	186.40	19.865 CC		
11,600.00	7,730.00	7,675.00	7,675.00	57.07	132.98	-90.00	-1,580.67	5,923.55	3,702.91	3,516.32	186.60	19.845 ES		
11,700.00	7,730.00	7,675.00	7,675.00	58.30	132.98	-90.00	-1,580.67	5,923.55	3,704.61	3,516.46	188.15	19.690		
11,800.00	7,730.00	7,675.00	7,675.00	59.55	132.98	-90.00	-1,580.67	5,923.55	3,709.00	3,519.25	189.75	19.547		
11,900.00	7,730.00	7,675.00	7,675.00	60.84	132.98	-90.00	-1,580.67	5,923.55	3,716.07	3,524.69	191.39	19.417		
12,000.00	7,730.00	7,675.00	7,675.00	62.15	132.98	-90.00	-1,580.67	5,923.55	3,725.82	3,532.77	193.05	19.300		
12,100.00	7,730.00	7,675.00	7,675.00	63.49	132.98	-90.00	-1,580.67	5,923.55	3,738.22	3,543.49	194.73	19.197		
12,200.00	7,730.00	7,675.00	7,675.00	64.85	132.98	-90.00	-1,580.67	5,923.55	3,753.24	3,556.83	196.41	19.109		
12,300.00	7,730.00	7,675.00	7,675.00	66.22	132.98	-90.00	-1,580.67	5,923.55	3,770.86	3,572.76	198.10	19.036		
12,400.00	7,730.00	7,675.00	7,675.00	67.62	132.98	-90.00	-1,580.67	5,923.55	3,791.03	3,591.26	199.77	18.977		
12,500.00	7,730.00	7,675.00	7,675.00	69.03	132.98	-90.00	-1,580.67	5,923.55	3,813.72	3,612.29	201.42	18.934		
12,600.00	7,730.00	7,675.00	7,675.00	70.45	132.98	-90.00	-1,580.67	5,923.55	3,838.88	3,635.82	203.06	18.905		
12,700.00	7,730.00	7,675.00	7,675.00	71.90	132.98	-90.00	-1,580.67	5,923.55	3,866.46	3,661.80	204.66	18.892 SF		
12,800.00	7,730.00	7,675.00	7,675.00	73.35	132.98	-90.00	-1,580.67	5,923.55	3,896.42	3,690.18	206.24	18.893		
12,900.00	7,730.00	7,675.00	7,675.00	74.81	132.98	-90.00	-1,580.67	5,923.55	3,928.69	3,720.92	207.77	18.909		
13,000.00	7,730.00	7,675.00	7,675.00	76.29	132.98	-90.00	-1,580.67	5,923.55	3,963.23	3,753.96	209.27	18.938		
13,100.00	7,730.00	7,675.00	7,675.00	77.78	132.98	-90.00	-1,580.67	5,923.55	3,999.96	3,789.24	210.72	18.982		
13,200.00	7,730.00	7,675.00	7,675.00	79.28	132.98	-90.00	-1,580.67	5,923.55	4,038.84	3,826.71	212.13	19.039		
13,300.00	7,730.00	7,675.00	7,675.00	80.79	132.98	-90.00	-1,580.67	5,923.55	4,079.80	3,866.31	213.49	19.110		
13,400.00	7,730.00	7,675.00	7,675.00	82.31	132.98	-90.00	-1,580.67	5,923.55	4,122.78	3,907.97	214.81	19.193		
13,500.00	7,730.00	7,675.00	7,675.00	83.84	132.98	-90.00	-1,580.67	5,923.55	4,167.72	3,951.64	216.08	19.288		
13,600.00	7,730.00	7,675.00	7,675.00	85.37	132.98	-90.00	-1,580.67	5,923.55	4,214.55	3,997.25	217.30	19.395		
13,700.00	7,730.00	7,675.00	7,675.00	86.92	132.98	-90.00	-1,580.67	5,923.55	4,263.21	4,044.74	218.47	19.514		
13,800.00	7,730.00	7,675.00	7,675.00	88.47	132.98	-90.00	-1,580.67	5,923.55	4,313.64	4,094.05	219.59	19.644		
13,900.00	7,730.00	7,675.00	7,675.00	90.03	132.98	-90.00	-1,580.67	5,923.55	4,365.78	4,145.11	220.67	19.784		
14,000.00	7,730.00	7,675.00	7,675.00	91.59	132.98	-90.00	-1,580.67	5,923.55	4,419.57	4,197.87	221.70	19.935		
14,100.00	7,730.00	7,675.00	7,675.00	93.16	132.98	-90.00	-1,580.67	5,923.55	4,474.94	4,252.26	222.68	20.096		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,675.00	7,675.00	94.74	132.98	-90.00	-1,580.67	5,923.55	4,531.85	4,308.23	223.62	20.266		
14,300.00	7,730.00	7,675.00	7,675.00	96.33	132.98	-90.00	-1,580.67	5,923.55	4,590.23	4,365.71	224.52	20.445		
14,400.00	7,730.00	7,675.00	7,675.00	97.92	132.98	-90.00	-1,580.67	5,923.55	4,650.03	4,424.65	225.38	20.632		
14,500.00	7,730.00	7,675.00	7,675.00	99.51	132.98	-90.00	-1,580.67	5,923.55	4,711.19	4,485.00	226.19	20.828		
14,600.00	7,730.00	7,675.00	7,675.00	101.11	132.98	-90.00	-1,580.67	5,923.55	4,773.66	4,546.70	226.96	21.033		
14,700.00	7,730.00	7,675.00	7,675.00	102.72	132.98	-90.00	-1,580.67	5,923.55	4,837.39	4,609.69	227.70	21.244		
14,800.00	7,730.00	7,675.00	7,675.00	104.33	132.98	-90.00	-1,580.67	5,923.55	4,902.34	4,673.93	228.40	21.463		
14,900.00	7,730.00	7,675.00	7,675.00	105.94	132.98	-90.00	-1,580.67	5,923.55	4,968.45	4,739.38	229.07	21.690		
15,000.00	7,730.00	7,675.00	7,675.00	107.56	132.98	-90.00	-1,580.67	5,923.55	5,035.67	4,805.97	229.71	21.922		
15,100.00	7,730.00	7,675.00	7,675.00	109.18	132.98	-90.00	-1,580.67	5,923.55	5,103.97	4,873.67	230.31	22.162		
15,200.00	7,730.00	7,675.00	7,675.00	110.81	132.98	-90.00	-1,580.67	5,923.55	5,173.31	4,942.43	230.88	22.407		
15,300.00	7,730.00	7,675.00	7,675.00	112.44	132.98	-90.00	-1,580.67	5,923.55	5,243.63	5,012.21	231.42	22.658		
15,400.00	7,730.00	7,675.00	7,675.00	114.08	132.98	-90.00	-1,580.67	5,923.55	5,314.90	5,082.96	231.94	22.915		
15,500.00	7,730.00	7,675.00	7,675.00	115.72	132.98	-90.00	-1,580.67	5,923.55	5,387.09	5,154.66	232.43	23.178		
15,600.00	7,730.00	7,675.00	7,675.00	117.36	132.98	-90.00	-1,580.67	5,923.55	5,460.15	5,227.26	232.89	23.445		
15,700.00	7,730.00	7,675.00	7,675.00	119.00	132.98	-90.00	-1,580.67	5,923.55	5,534.06	5,300.73	233.33	23.718		
15,800.00	7,730.00	7,675.00	7,675.00	120.65	132.98	-90.00	-1,580.67	5,923.55	5,608.77	5,375.02	233.75	23.995		
15,900.00	7,730.00	7,675.00	7,675.00	122.30	132.98	-90.00	-1,580.67	5,923.55	5,684.27	5,450.12	234.15	24.277		
16,000.00	7,730.00	7,675.00	7,675.00	123.96	132.98	-90.00	-1,580.67	5,923.55	5,760.51	5,525.98	234.52	24.563		
16,100.00	7,730.00	7,675.00	7,675.00	125.61	132.98	-90.00	-1,580.67	5,923.55	5,837.46	5,602.58	234.88	24.853		
16,200.00	7,730.00	7,675.00	7,675.00	127.27	132.98	-90.00	-1,580.67	5,923.55	5,915.11	5,679.89	235.22	25.147		
16,300.00	7,730.00	7,675.00	7,675.00	128.94	132.98	-90.00	-1,580.67	5,923.55	5,993.42	5,757.88	235.54	25.445		
16,400.00	7,730.00	7,675.00	7,675.00	130.60	132.98	-90.00	-1,580.67	5,923.55	6,072.36	5,836.52	235.85	25.747		
16,500.00	7,730.00	7,675.00	7,675.00	132.27	132.98	-90.00	-1,580.67	5,923.55	6,151.92	5,915.79	236.14	26.052		
16,600.00	7,730.00	7,675.00	7,675.00	133.94	132.98	-90.00	-1,580.67	5,923.55	6,232.07	5,995.66	236.41	26.361		
16,700.00	7,730.00	7,675.00	7,675.00	135.61	132.98	-90.00	-1,580.67	5,923.55	6,312.78	6,076.11	236.67	26.673		
16,800.00	7,730.00	7,675.00	7,675.00	137.28	132.98	-90.00	-1,580.67	5,923.55	6,394.04	6,157.12	236.92	26.988		
16,900.00	7,730.00	7,675.00	7,675.00	138.96	132.98	-90.00	-1,580.67	5,923.55	6,475.82	6,238.67	237.16	27.306		
17,000.00	7,730.00	7,675.00	7,675.00	140.64	132.98	-90.00	-1,580.67	5,923.55	6,558.11	6,320.73	237.38	27.627		
17,100.00	7,730.00	7,675.00	7,675.00	142.32	132.98	-90.00	-1,580.67	5,923.55	6,640.89	6,403.30	237.59	27.951		
17,200.00	7,730.00	7,675.00	7,675.00	144.00	132.98	-90.00	-1,580.67	5,923.55	6,724.13	6,486.34	237.79	28.277		
17,300.00	7,730.00	7,675.00	7,675.00	145.69	132.98	-90.00	-1,580.67	5,923.55	6,807.82	6,569.84	237.99	28.606		
17,400.00	7,730.00	7,675.00	7,675.00	147.37	132.98	-90.00	-1,580.67	5,923.55	6,891.95	6,653.78	238.17	28.937		
17,500.00	7,730.00	7,675.00	7,675.00	149.06	132.98	-90.00	-1,580.67	5,923.55	6,976.50	6,738.16	238.34	29.271		
17,600.00	7,730.00	7,675.00	7,675.00	150.75	132.98	-90.00	-1,580.67	5,923.55	7,061.45	6,822.94	238.51	29.607		
17,700.00	7,730.00	7,675.00	7,675.00	152.44	132.98	-90.00	-1,580.67	5,923.55	7,146.79	6,908.13	238.67	29.945		
17,800.00	7,730.00	7,675.00	7,675.00	154.13	132.98	-90.00	-1,580.67	5,923.55	7,232.51	6,993.69	238.82	30.285		
17,900.00	7,730.00	7,675.00	7,675.00	155.83	132.98	-90.00	-1,580.67	5,923.55	7,318.59	7,079.63	238.96	30.627		
18,000.00	7,730.00	7,675.00	7,675.00	157.52	132.98	-90.00	-1,580.67	5,923.55	7,405.02	7,165.92	239.09	30.971		
18,100.00	7,730.00	7,675.00	7,675.00	159.22	132.98	-90.00	-1,580.67	5,923.55	7,491.78	7,252.56	239.22	31.317		
18,200.00	7,730.00	7,675.00	7,675.00	160.92	132.98	-90.00	-1,580.67	5,923.55	7,578.88	7,339.53	239.35	31.665		
18,300.00	7,730.00	7,675.00	7,675.00	162.62	132.98	-90.00	-1,580.67	5,923.55	7,666.28	7,426.82	239.47	32.014		
18,400.00	7,730.00	7,675.00	7,675.00	164.32	132.98	-90.00	-1,580.67	5,923.55	7,754.00	7,514.42	239.58	32.365		
18,426.22	7,730.00	7,675.00	7,675.00	164.76	132.98	-90.00	-1,580.67	5,923.55	7,777.04	7,537.44	239.61	32.458		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	114.79	-2,506.80	5,426.72	5,977.94					
100.00	100.00	51.00	51.00	0.13	0.39	114.79	-2,506.80	5,426.72	5,977.74	5,977.21	0.53	N/A		
200.00	200.00	151.00	151.00	0.49	1.66	114.79	-2,506.80	5,426.72	5,977.74	5,975.59	2.15	2,779.099		
300.00	300.00	251.00	251.00	0.85	3.40	114.79	-2,506.80	5,426.72	5,977.74	5,973.48	4.25	1,404.952		
400.00	400.00	351.00	351.00	1.21	5.15	114.79	-2,506.80	5,426.72	5,977.74	5,971.38	6.36	940.108		
500.00	500.00	451.00	451.00	1.57	6.89	114.79	-2,506.80	5,426.72	5,977.74	5,969.28	8.46	706.391		
600.00	600.00	551.00	551.00	1.93	8.64	114.79	-2,506.80	5,426.72	5,977.74	5,967.17	10.57	565.743		
700.00	700.00	651.00	651.00	2.29	10.38	114.79	-2,506.80	5,426.72	5,977.74	5,965.07	12.67	471.804		
800.00	800.00	751.00	751.00	2.64	12.13	114.79	-2,506.80	5,426.72	5,977.74	5,962.96	14.77	404.618		
900.00	900.00	851.00	851.00	3.00	13.88	114.79	-2,506.80	5,426.72	5,977.74	5,960.86	16.88	354.182		
1,000.00	1,000.00	951.00	951.00	3.36	15.62	114.79	-2,506.80	5,426.72	5,977.74	5,958.76	18.98	314.927		
1,100.00	1,100.00	1,051.00	1,051.00	3.72	17.37	114.79	-2,506.80	5,426.72	5,977.74	5,956.65	21.09	283.504		
1,200.00	1,200.00	1,151.00	1,151.00	4.08	19.11	114.79	-2,506.80	5,426.72	5,977.74	5,954.55	23.19	257.784		
1,300.00	1,299.98	1,250.98	1,250.98	4.43	20.86	67.70	-2,506.80	5,426.72	5,977.07	5,951.79	25.29	236.348		
1,400.00	1,399.84	1,350.84	1,350.84	4.79	22.60	67.78	-2,506.80	5,426.72	5,975.09	5,947.70	27.39	218.184		
1,500.00	1,499.45	1,450.45	1,450.45	5.15	24.34	67.92	-2,506.80	5,426.72	5,971.79	5,942.31	29.48	202.569		
1,600.00	1,598.70	1,549.70	1,549.70	5.51	26.07	68.12	-2,506.80	5,426.72	5,967.20	5,935.63	31.57	188.988		
1,700.00	1,697.47	1,648.47	1,648.47	5.89	27.79	68.36	-2,506.80	5,426.72	5,961.34	5,927.67	33.67	177.053		
1,800.00	1,795.62	1,746.62	1,746.62	6.28	29.51	68.66	-2,506.80	5,426.72	5,954.24	5,918.47	35.77	166.467		
1,900.00	1,893.06	1,844.06	1,844.06	6.69	31.21	69.02	-2,506.80	5,426.72	5,945.93	5,908.06	37.87	156.997		
2,000.00	1,989.64	1,940.64	1,940.64	7.13	32.89	69.42	-2,506.80	5,426.72	5,936.47	5,896.48	39.99	148.462		
2,100.00	2,085.27	2,036.27	2,036.27	7.61	34.56	69.87	-2,506.80	5,426.72	5,925.89	5,883.78	42.11	140.718		
2,200.00	2,179.82	2,130.82	2,130.82	8.12	36.21	70.38	-2,506.80	5,426.72	5,914.26	5,870.01	44.25	133.648		
2,300.00	2,273.17	2,224.17	2,224.17	8.67	37.84	70.92	-2,506.80	5,426.72	5,901.65	5,855.23	46.41	127.159		
2,400.00	2,365.21	2,316.21	2,316.21	9.27	39.45	71.52	-2,506.80	5,426.72	5,888.11	5,839.52	48.59	121.175		
2,500.00	2,455.84	2,406.84	2,406.84	9.92	41.03	72.15	-2,506.80	5,426.72	5,873.72	5,822.92	50.80	115.634		
2,580.62	2,527.80	2,478.80	2,478.80	10.49	42.29	72.69	-2,506.80	5,426.72	5,861.56	5,808.97	52.59	111.456		
2,600.00	2,544.97	2,504.03	2,495.97	10.63	42.73	72.77	-2,506.80	5,426.72	5,858.58	5,805.42	53.17	110.195		
2,700.00	2,633.58	2,584.58	2,584.58	11.37	44.13	73.16	-2,506.80	5,426.72	5,843.44	5,788.15	55.28	105.703		
2,800.00	2,722.19	2,673.19	2,673.19	12.13	45.68	73.55	-2,506.80	5,426.72	5,828.62	5,771.05	57.56	101.257		
2,900.00	2,810.80	2,761.80	2,761.80	12.91	47.23	73.94	-2,506.80	5,426.72	5,814.13	5,754.26	59.86	97.121		
3,000.00	2,899.41	2,850.41	2,850.41	13.71	48.77	74.33	-2,506.80	5,426.72	5,799.97	5,737.79	62.18	93.270		
3,100.00	2,988.02	2,939.02	2,939.02	14.52	50.32	74.73	-2,506.80	5,426.72	5,786.15	5,721.63	64.52	89.680		
3,200.00	3,076.63	3,027.63	3,027.63	15.34	51.86	75.12	-2,506.80	5,426.72	5,772.68	5,705.81	66.87	86.328		
3,300.00	3,165.24	3,116.24	3,116.24	16.16	53.41	75.52	-2,506.80	5,426.72	5,759.54	5,690.31	69.23	83.195		
3,400.00	3,253.85	3,204.85	3,204.85	17.00	54.96	75.92	-2,506.80	5,426.72	5,746.75	5,675.14	71.60	80.261		
3,500.00	3,342.46	3,306.54	3,293.46	17.84	56.73	76.32	-2,506.80	5,426.72	5,734.30	5,660.09	74.21	77.272		
3,600.00	3,431.07	3,382.07	3,382.07	18.69	58.05	76.73	-2,506.80	5,426.72	5,722.20	5,645.83	76.37	74.927		
3,700.00	3,519.68	3,470.68	3,470.68	19.55	59.60	77.13	-2,506.80	5,426.72	5,710.45	5,631.68	78.77	72.499		
3,800.00	3,608.29	3,559.29	3,559.29	20.40	61.14	77.54	-2,506.80	5,426.72	5,699.06	5,617.89	81.17	70.212		
3,900.00	3,696.90	3,647.90	3,647.90	21.26	62.69	77.94	-2,506.80	5,426.72	5,688.01	5,604.44	83.58	68.056		
4,000.00	3,785.51	3,736.51	3,736.51	22.13	64.24	78.35	-2,506.80	5,426.72	5,677.33	5,591.34	85.99	66.021		
4,100.00	3,874.12	3,825.12	3,825.12	23.00	65.78	78.76	-2,506.80	5,426.72	5,667.01	5,578.59	88.41	64.098		
4,200.00	3,962.73	3,913.73	3,913.73	23.87	67.33	79.17	-2,506.80	5,426.72	5,657.04	5,566.21	90.84	62.278		
4,300.00	4,051.34	4,002.34	4,002.34	24.74	68.88	79.58	-2,506.80	5,426.72	5,647.44	5,554.18	93.26	60.553		
4,400.00	4,139.95	4,109.05	4,090.95	25.62	70.74	79.99	-2,506.80	5,426.72	5,638.20	5,542.19	96.01	58.724		
4,500.00	4,228.56	4,179.56	4,179.56	26.49	71.97	80.40	-2,506.80	5,426.72	5,629.33	5,531.20	98.13	57.366		
4,600.00	4,317.17	4,268.17	4,268.17	27.37	73.52	80.82	-2,506.80	5,426.72	5,620.83	5,520.26	100.57	55.890		
4,700.00	4,405.78	4,356.78	4,356.78	28.25	75.06	81.23	-2,506.80	5,426.72	5,612.70	5,509.69	103.01	54.487		
4,800.00	4,494.39	4,445.39	4,445.39	29.13	76.61	81.65	-2,506.80	5,426.72	5,604.94	5,499.49	105.45	53.151		
4,900.00	4,583.00	4,534.00	4,534.00	30.02	78.16	82.07	-2,506.80	5,426.72	5,597.55	5,489.65	107.90	51.878		
5,000.00	4,671.61	4,622.61	4,622.61	30.90	79.70	82.48	-2,506.80	5,426.72	5,590.54	5,480.19	110.35	50.663		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,711.22	4,711.22	31.79	81.25	82.90	-2,506.80	5,426.72	5,583.90	5,471.11	112.80	49.504		
5,200.00	4,848.83	4,800.17	4,799.83	32.67	82.80	83.32	-2,506.80	5,426.72	5,577.64	5,462.39	115.25	48.395		
5,300.00	4,937.44	4,888.44	4,888.44	33.56	84.34	83.74	-2,506.80	5,426.72	5,571.76	5,454.06	117.70	47.339		
5,400.00	5,026.05	4,977.05	4,977.05	34.45	85.89	84.16	-2,506.80	5,426.72	5,566.26	5,446.11	120.15	46.327		
5,500.00	5,114.66	5,065.66	5,065.66	35.34	87.44	84.59	-2,506.80	5,426.72	5,561.14	5,438.53	122.61	45.358		
5,600.00	5,203.27	5,154.27	5,154.27	36.23	88.98	85.01	-2,506.80	5,426.72	5,556.40	5,431.34	125.06	44.430		
5,700.00	5,291.88	5,242.88	5,242.88	37.12	90.53	85.43	-2,506.80	5,426.72	5,552.05	5,424.53	127.51	43.541		
5,800.00	5,380.50	5,331.50	5,331.50	38.01	92.07	85.85	-2,506.80	5,426.72	5,548.07	5,418.10	129.97	42.688		
5,900.00	5,469.11	5,420.11	5,420.11	38.90	93.62	86.28	-2,506.80	5,426.72	5,544.49	5,412.06	132.42	41.869		
6,000.00	5,557.72	5,508.72	5,508.72	39.79	95.17	86.70	-2,506.80	5,426.72	5,541.28	5,406.41	134.88	41.084		
6,100.00	5,646.33	5,602.67	5,597.33	40.68	96.81	87.12	-2,506.80	5,426.72	5,538.47	5,401.04	137.43	40.302		
6,200.00	5,734.94	5,685.94	5,685.94	41.58	98.26	87.55	-2,506.80	5,426.72	5,536.04	5,396.25	139.79	39.604		
6,300.00	5,823.55	5,774.55	5,774.55	42.47	99.81	87.97	-2,506.80	5,426.72	5,534.00	5,391.76	142.24	38.907		
6,400.00	5,912.16	5,863.16	5,863.16	43.36	101.35	88.40	-2,506.80	5,426.72	5,532.34	5,387.65	144.69	38.236		
6,500.00	6,000.77	5,951.77	5,951.77	44.26	102.90	88.82	-2,506.80	5,426.72	5,531.08	5,383.94	147.14	37.591		
6,600.00	6,089.38	6,040.38	6,040.38	45.15	104.45	89.25	-2,506.80	5,426.72	5,530.20	5,380.61	149.59	36.969		
6,700.00	6,177.99	6,128.99	6,128.99	46.05	105.99	89.68	-2,506.80	5,426.72	5,529.71	5,377.67	152.04	36.371		
6,776.18	6,245.49	6,203.51	6,196.49	46.73	107.29	90.00	-2,506.80	5,426.72	5,529.59	5,375.57	154.02	35.901		
6,800.00	6,266.60	6,217.60	6,217.60	46.94	107.54	90.10	-2,506.80	5,426.72	5,529.60	5,375.12	154.48	35.795		
6,900.00	6,355.21	6,306.21	6,306.21	47.84	109.09	90.53	-2,506.80	5,426.72	5,529.89	5,372.97	156.93	35.239		
7,000.00	6,443.82	6,405.18	6,394.82	48.74	110.81	90.95	-2,506.80	5,426.72	5,530.57	5,371.02	159.55	34.664		
7,100.00	6,532.43	6,483.43	6,483.43	49.63	112.18	91.38	-2,506.80	5,426.72	5,531.63	5,369.82	161.81	34.186		
7,200.00	6,621.04	6,572.04	6,572.04	50.53	113.73	91.80	-2,506.80	5,426.72	5,533.08	5,368.84	164.24	33.688		
7,300.00	6,709.65	6,660.65	6,660.65	51.42	115.27	92.23	-2,506.80	5,426.72	5,534.92	5,368.24	166.68	33.207		
7,400.00	6,798.26	6,749.26	6,749.26	52.32	116.82	92.65	-2,506.80	5,426.72	5,537.15	5,368.04	169.11	32.742		
7,500.00	6,886.87	6,837.87	6,837.87	53.22	118.37	93.08	-2,506.80	5,426.72	5,539.76	5,368.22	171.54	32.294		
7,600.00	6,975.48	6,926.48	6,926.48	54.12	119.91	93.50	-2,506.80	5,426.72	5,542.76	5,368.79	173.97	31.861		
7,656.30	7,025.36	6,976.36	6,976.36	54.62	120.78	93.74	-2,506.80	5,426.72	5,544.62	5,369.29	175.33	31.623		
7,700.00	7,064.54	7,015.54	7,015.54	55.00	121.47	94.00	-2,506.80	5,426.72	5,546.79	5,368.41	176.39	31.435		
7,750.00	7,110.29	7,061.29	7,061.29	55.40	122.27	94.25	-2,506.80	5,426.72	5,548.75	5,364.18	177.58	31.208		
7,800.00	7,156.67	7,107.67	7,107.67	55.75	123.07	94.50	-2,506.80	5,426.72	5,550.75	5,361.51	178.73	30.969		
7,850.00	7,203.34	7,154.34	7,154.34	56.05	123.89	94.75	-2,506.80	5,426.72	5,552.75	5,358.45	179.85	30.721		
7,900.00	7,249.95	7,200.95	7,200.95	56.30	124.70	95.00	-2,506.80	5,426.72	5,554.75	5,355.39	180.92	30.466		
7,950.00	7,296.14	7,247.14	7,247.14	56.50	125.51	95.25	-2,506.80	5,426.72	5,556.75	5,352.33	181.94	30.205		
8,000.00	7,341.56	7,307.44	7,292.56	56.64	126.56	95.50	-2,506.80	5,426.72	5,558.75	5,349.27	183.15	29.897		
8,050.00	7,385.86	7,336.86	7,336.86	56.74	127.07	95.75	-2,506.80	5,426.72	5,560.75	5,346.21	183.77	29.671		
8,100.00	7,428.71	7,379.71	7,379.71	56.79	127.82	-1.76	-2,506.80	5,426.72	5,426.97	5,242.39	184.58	29.401		
8,150.00	7,469.77	7,420.77	7,420.77	56.80	128.54	-8.72	-2,506.80	5,426.72	5,398.56	5,213.24	185.32	29.131		
8,200.00	7,508.75	7,459.75	7,459.75	56.77	129.22	-15.21	-2,506.80	5,426.72	5,367.68	5,181.71	185.98	28.862		
8,250.00	7,545.33	7,503.67	7,496.33	56.70	129.99	-21.52	-2,506.80	5,426.72	5,334.59	5,147.91	186.68	28.576		
8,300.00	7,579.25	7,530.25	7,530.25	56.59	130.45	-27.90	-2,506.80	5,426.72	5,299.54	5,112.50	187.04	28.334		
8,350.00	7,610.24	7,561.24	7,561.24	56.45	130.99	-34.50	-2,506.80	5,426.72	5,262.82	5,075.38	187.44	28.078		
8,400.00	7,638.06	7,589.06	7,589.06	56.28	131.48	-41.45	-2,506.80	5,426.72	5,224.73	5,036.98	187.75	27.829		
8,450.00	7,662.52	7,613.52	7,613.52	56.09	131.90	-48.74	-2,506.80	5,426.72	5,185.59	4,997.63	187.96	27.589		
8,500.00	7,683.41	7,634.41	7,634.41	55.88	132.27	-56.33	-2,506.80	5,426.72	5,145.72	4,957.63	188.08	27.359		
8,550.00	7,700.59	7,651.59	7,651.59	55.64	132.57	-64.01	-2,506.80	5,426.72	5,105.45	4,917.34	188.11	27.140		
8,600.00	7,713.91	7,664.91	7,664.91	55.39	132.80	-71.56	-2,506.80	5,426.72	5,065.14	4,877.08	188.05	26.934		
8,650.00	7,723.29	7,674.29	7,674.29	55.14	132.96	-78.71	-2,506.80	5,426.72	5,025.11	4,837.21	187.90	26.743		
8,700.00	7,728.64	7,679.64	7,679.64	54.87	133.06	-85.24	-2,506.80	5,426.72	4,985.70	4,798.04	187.66	26.567		
8,740.83	7,730.00	7,681.00	7,681.00	54.65	133.08	-90.00	-2,506.80	5,426.72	4,954.22	4,766.81	187.41	26.436		
8,800.00	7,730.00	7,681.00	7,681.00	54.33	133.08	-90.00	-2,506.80	5,426.72	4,909.29	4,722.30	186.99	26.254		
8,900.00	7,730.00	7,681.00	7,681.00	53.82	133.08	-90.00	-2,506.80	5,426.72	4,834.06	4,647.77	186.29	25.950		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,681.00	7,681.00	53.33	133.08	-90.00	-2,506.80	5,426.72	4,759.74	4,574.16	185.58	25.648		
9,100.00	7,730.00	7,681.00	7,681.00	52.87	133.08	-90.00	-2,506.80	5,426.72	4,686.37	4,501.50	184.87	25.350		
9,200.00	7,730.00	7,681.00	7,681.00	52.44	133.08	-90.00	-2,506.80	5,426.72	4,614.01	4,429.85	184.16	25.054		
9,300.00	7,730.00	7,681.00	7,681.00	52.03	133.08	-90.00	-2,506.80	5,426.72	4,542.69	4,359.24	183.45	24.762		
9,400.00	7,730.00	7,681.00	7,681.00	51.65	133.08	-90.00	-2,506.80	5,426.72	4,472.47	4,289.72	182.76	24.472		
9,500.00	7,730.00	7,681.00	7,681.00	51.29	133.08	-90.00	-2,506.80	5,426.72	4,403.41	4,221.33	182.07	24.185		
9,600.00	7,730.00	7,681.00	7,681.00	50.95	133.08	-90.00	-2,506.80	5,426.72	4,335.55	4,154.14	181.41	23.900		
9,700.00	7,730.00	7,681.00	7,681.00	50.64	133.08	-90.00	-2,506.80	5,426.72	4,268.95	4,088.19	180.76	23.617		
9,800.00	7,730.00	7,681.00	7,681.00	50.35	133.08	-90.00	-2,506.80	5,426.72	4,203.68	4,023.54	180.14	23.335		
9,900.00	7,730.00	7,681.00	7,681.00	50.09	133.08	-90.00	-2,506.80	5,426.72	4,139.80	3,960.23	179.56	23.055		
10,000.00	7,730.00	7,681.00	7,681.00	49.86	133.08	-90.00	-2,506.80	5,426.72	4,077.36	3,898.33	179.03	22.775		
10,100.00	7,730.00	7,681.00	7,681.00	49.65	133.08	-90.00	-2,506.80	5,426.72	4,016.45	3,837.91	178.54	22.496		
10,200.00	7,730.00	7,681.00	7,681.00	49.48	133.08	-90.00	-2,506.80	5,426.72	3,957.12	3,779.00	178.12	22.216		
10,300.00	7,730.00	7,681.00	7,681.00	49.35	133.08	-90.00	-2,506.80	5,426.72	3,899.46	3,721.70	177.77	21.936		
10,400.00	7,730.00	7,681.00	7,681.00	49.27	133.08	-90.00	-2,506.80	5,426.72	3,843.54	3,666.04	177.50	21.654		
10,500.00	7,730.00	7,681.00	7,681.00	49.26	133.08	-90.00	-2,506.80	5,426.72	3,789.43	3,612.11	177.31	21.371		
10,600.00	7,730.00	7,681.00	7,681.00	49.32	133.08	-90.00	-2,506.80	5,426.72	3,737.21	3,559.98	177.23	21.086		
10,700.00	7,730.00	7,681.00	7,681.00	49.51	133.08	-90.00	-2,506.80	5,426.72	3,686.97	3,509.70	177.26	20.799		
10,800.00	7,730.00	7,681.00	7,681.00	49.83	133.08	-90.00	-2,506.80	5,426.72	3,638.78	3,461.36	177.41	20.510		
10,900.00	7,730.00	7,681.00	7,681.00	50.31	133.08	-90.00	-2,506.80	5,426.72	3,592.73	3,415.04	177.69	20.219		
11,000.00	7,730.00	7,681.00	7,681.00	50.96	133.08	-90.00	-2,506.80	5,426.72	3,548.90	3,370.79	178.10	19.926		
11,100.00	7,730.00	7,681.00	7,681.00	51.75	133.08	-90.00	-2,506.80	5,426.72	3,507.37	3,328.72	178.65	19.633		
11,200.00	7,730.00	7,681.00	7,681.00	52.66	133.08	-90.00	-2,506.80	5,426.72	3,468.23	3,288.89	179.34	19.339		
11,300.00	7,730.00	7,681.00	7,681.00	53.67	133.08	-90.00	-2,506.80	5,426.72	3,431.56	3,251.39	180.17	19.046		
11,400.00	7,730.00	7,681.00	7,681.00	54.75	133.08	-90.00	-2,506.80	5,426.72	3,397.44	3,216.29	181.14	18.756		
11,500.00	7,730.00	7,681.00	7,681.00	55.89	133.08	-90.00	-2,506.80	5,426.72	3,365.94	3,183.69	182.25	18.469		
11,600.00	7,730.00	7,681.00	7,681.00	57.07	133.08	-90.00	-2,506.80	5,426.72	3,337.14	3,153.66	183.48	18.188		
11,700.00	7,730.00	7,681.00	7,681.00	58.30	133.08	-90.00	-2,506.80	5,426.72	3,311.12	3,126.28	184.84	17.913		
11,800.00	7,730.00	7,681.00	7,681.00	59.55	133.08	-90.00	-2,506.80	5,426.72	3,287.93	3,101.62	186.31	17.648		
11,900.00	7,730.00	7,681.00	7,681.00	60.84	133.08	-90.00	-2,506.80	5,426.72	3,267.64	3,079.76	187.88	17.392		
12,000.00	7,730.00	7,681.00	7,681.00	62.15	133.08	-90.00	-2,506.80	5,426.72	3,250.30	3,060.76	189.54	17.148		
12,100.00	7,730.00	7,681.00	7,681.00	63.49	133.08	-90.00	-2,506.80	5,426.72	3,235.96	3,044.68	191.28	16.918		
12,200.00	7,730.00	7,681.00	7,681.00	64.85	133.08	-90.00	-2,506.80	5,426.72	3,224.65	3,031.57	193.08	16.701		
12,300.00	7,730.00	7,681.00	7,681.00	66.22	133.08	-90.00	-2,506.80	5,426.72	3,216.42	3,021.49	194.93	16.500		
12,400.00	7,730.00	7,681.00	7,681.00	67.62	133.08	-90.00	-2,506.80	5,426.72	3,211.28	3,014.46	196.82	16.316		
12,500.00	7,730.00	7,681.00	7,681.00	69.03	133.08	-90.00	-2,506.80	5,426.72	3,209.26	3,010.52	198.74	16.148		
12,515.11	7,730.00	7,681.00	7,681.00	69.24	133.08	-90.00	-2,506.80	5,426.72	3,209.22	3,010.19	199.03	16.124 CC		
12,600.00	7,730.00	7,681.00	7,681.00	70.45	133.08	-90.00	-2,506.80	5,426.72	3,210.34	3,009.68	200.67	15.998 ES		
12,700.00	7,730.00	7,681.00	7,681.00	71.90	133.08	-90.00	-2,506.80	5,426.72	3,214.54	3,011.95	202.59	15.867		
12,800.00	7,730.00	7,681.00	7,681.00	73.35	133.08	-90.00	-2,506.80	5,426.72	3,221.84	3,017.33	204.51	15.754		
12,900.00	7,730.00	7,681.00	7,681.00	74.81	133.08	-90.00	-2,506.80	5,426.72	3,232.22	3,025.81	206.41	15.659		
13,000.00	7,730.00	7,681.00	7,681.00	76.29	133.08	-90.00	-2,506.80	5,426.72	3,245.64	3,037.37	208.27	15.584		
13,100.00	7,730.00	7,681.00	7,681.00	77.78	133.08	-90.00	-2,506.80	5,426.72	3,262.08	3,051.98	210.10	15.526		
13,200.00	7,730.00	7,681.00	7,681.00	79.28	133.08	-90.00	-2,506.80	5,426.72	3,281.49	3,069.60	211.89	15.487		
13,300.00	7,730.00	7,681.00	7,681.00	80.79	133.08	-90.00	-2,506.80	5,426.72	3,303.81	3,090.19	213.62	15.466		
13,400.00	7,730.00	7,681.00	7,681.00	82.31	133.08	-90.00	-2,506.80	5,426.72	3,328.98	3,113.69	215.29	15.463 SF		
13,500.00	7,730.00	7,681.00	7,681.00	83.84	133.08	-90.00	-2,506.80	5,426.72	3,356.95	3,140.05	216.90	15.477		
13,600.00	7,730.00	7,681.00	7,681.00	85.37	133.08	-90.00	-2,506.80	5,426.72	3,387.63	3,169.19	218.45	15.508		
13,700.00	7,730.00	7,681.00	7,681.00	86.92	133.08	-90.00	-2,506.80	5,426.72	3,420.97	3,201.04	219.93	15.555		
13,800.00	7,730.00	7,681.00	7,681.00	88.47	133.08	-90.00	-2,506.80	5,426.72	3,456.88	3,235.54	221.34	15.618		
13,900.00	7,730.00	7,681.00	7,681.00	90.03	133.08	-90.00	-2,506.80	5,426.72	3,495.28	3,272.60	222.68	15.696		
14,000.00	7,730.00	7,681.00	7,681.00	91.59	133.08	-90.00	-2,506.80	5,426.72	3,536.10	3,312.14	223.95	15.789		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,681.00	7,681.00	93.16	133.08	-90.00	-2,506.80	5,426.72	3,579.24	3,354.08	225.16	15.897		
14,200.00	7,730.00	7,681.00	7,681.00	94.74	133.08	-90.00	-2,506.80	5,426.72	3,624.63	3,398.34	226.29	16.017		
14,300.00	7,730.00	7,681.00	7,681.00	96.33	133.08	-90.00	-2,506.80	5,426.72	3,672.18	3,444.82	227.36	16.151		
14,400.00	7,730.00	7,681.00	7,681.00	97.92	133.08	-90.00	-2,506.80	5,426.72	3,721.81	3,493.45	228.36	16.298		
14,500.00	7,730.00	7,681.00	7,681.00	99.51	133.08	-90.00	-2,506.80	5,426.72	3,773.44	3,544.14	229.30	16.456		
14,600.00	7,730.00	7,681.00	7,681.00	101.11	133.08	-90.00	-2,506.80	5,426.72	3,826.99	3,596.81	230.18	16.626		
14,700.00	7,730.00	7,681.00	7,681.00	102.72	133.08	-90.00	-2,506.80	5,426.72	3,882.37	3,651.37	231.00	16.807		
14,800.00	7,730.00	7,681.00	7,681.00	104.33	133.08	-90.00	-2,506.80	5,426.72	3,939.52	3,707.75	231.76	16.998		
14,900.00	7,730.00	7,681.00	7,681.00	105.94	133.08	-90.00	-2,506.80	5,426.72	3,998.35	3,765.87	232.47	17.199		
15,000.00	7,730.00	7,681.00	7,681.00	107.56	133.08	-90.00	-2,506.80	5,426.72	4,058.79	3,825.65	233.13	17.410		
15,100.00	7,730.00	7,681.00	7,681.00	109.18	133.08	-90.00	-2,506.80	5,426.72	4,120.77	3,887.02	233.75	17.629		
15,200.00	7,730.00	7,681.00	7,681.00	110.81	133.08	-90.00	-2,506.80	5,426.72	4,184.22	3,949.91	234.31	17.858		
15,300.00	7,730.00	7,681.00	7,681.00	112.44	133.08	-90.00	-2,506.80	5,426.72	4,249.08	4,014.25	234.84	18.094		
15,400.00	7,730.00	7,681.00	7,681.00	114.08	133.08	-90.00	-2,506.80	5,426.72	4,315.28	4,079.96	235.32	18.338		
15,500.00	7,730.00	7,681.00	7,681.00	115.72	133.08	-90.00	-2,506.80	5,426.72	4,382.77	4,147.00	235.76	18.590		
15,600.00	7,730.00	7,681.00	7,681.00	117.36	133.08	-90.00	-2,506.80	5,426.72	4,451.47	4,215.30	236.17	18.848		
15,700.00	7,730.00	7,681.00	7,681.00	119.00	133.08	-90.00	-2,506.80	5,426.72	4,521.35	4,284.80	236.55	19.114		
15,800.00	7,730.00	7,681.00	7,681.00	120.65	133.08	-90.00	-2,506.80	5,426.72	4,592.34	4,355.44	236.90	19.385		
15,900.00	7,730.00	7,681.00	7,681.00	122.30	133.08	-90.00	-2,506.80	5,426.72	4,664.39	4,427.18	237.21	19.663		
16,000.00	7,730.00	7,681.00	7,681.00	123.96	133.08	-90.00	-2,506.80	5,426.72	4,737.46	4,499.96	237.50	19.947		
16,100.00	7,730.00	7,681.00	7,681.00	125.61	133.08	-90.00	-2,506.80	5,426.72	4,811.50	4,573.73	237.77	20.236		
16,200.00	7,730.00	7,681.00	7,681.00	127.27	133.08	-90.00	-2,506.80	5,426.72	4,886.46	4,648.45	238.01	20.531		
16,300.00	7,730.00	7,681.00	7,681.00	128.94	133.08	-90.00	-2,506.80	5,426.72	4,962.30	4,724.08	238.23	20.830		
16,400.00	7,730.00	7,681.00	7,681.00	130.60	133.08	-90.00	-2,506.80	5,426.72	5,038.99	4,800.56	238.43	21.134		
16,500.00	7,730.00	7,681.00	7,681.00	132.27	133.08	-90.00	-2,506.80	5,426.72	5,116.48	4,877.88	238.61	21.443		
16,600.00	7,730.00	7,681.00	7,681.00	133.94	133.08	-90.00	-2,506.80	5,426.72	5,194.75	4,955.98	238.77	21.756		
16,700.00	7,730.00	7,681.00	7,681.00	135.61	133.08	-90.00	-2,506.80	5,426.72	5,273.74	5,034.83	238.92	22.073		
16,800.00	7,730.00	7,681.00	7,681.00	137.28	133.08	-90.00	-2,506.80	5,426.72	5,353.44	5,114.39	239.05	22.395		
16,900.00	7,730.00	7,681.00	7,681.00	138.96	133.08	-90.00	-2,506.80	5,426.72	5,433.81	5,194.65	239.17	22.720		
17,000.00	7,730.00	7,681.00	7,681.00	140.64	133.08	-90.00	-2,506.80	5,426.72	5,514.83	5,275.55	239.27	23.048		
17,100.00	7,730.00	7,681.00	7,681.00	142.32	133.08	-90.00	-2,506.80	5,426.72	5,596.45	5,357.09	239.37	23.380		
17,200.00	7,730.00	7,681.00	7,681.00	144.00	133.08	-90.00	-2,506.80	5,426.72	5,678.67	5,439.22	239.45	23.716		
17,300.00	7,730.00	7,681.00	7,681.00	145.69	133.08	-90.00	-2,506.80	5,426.72	5,761.44	5,521.92	239.52	24.054		
17,400.00	7,730.00	7,681.00	7,681.00	147.37	133.08	-90.00	-2,506.80	5,426.72	5,844.76	5,605.17	239.59	24.395		
17,500.00	7,730.00	7,681.00	7,681.00	149.06	133.08	-90.00	-2,506.80	5,426.72	5,928.59	5,688.95	239.64	24.740		
17,600.00	7,730.00	7,681.00	7,681.00	150.75	133.08	-90.00	-2,506.80	5,426.72	6,012.92	5,773.23	239.69	25.087		
17,700.00	7,730.00	7,681.00	7,681.00	152.44	133.08	-90.00	-2,506.80	5,426.72	6,097.72	5,857.99	239.73	25.436		
17,800.00	7,730.00	7,681.00	7,681.00	154.13	133.08	-90.00	-2,506.80	5,426.72	6,182.97	5,943.21	239.76	25.788		
17,900.00	7,730.00	7,681.00	7,681.00	155.83	133.08	-90.00	-2,506.80	5,426.72	6,268.66	6,028.88	239.78	26.143		
18,000.00	7,730.00	7,681.00	7,681.00	157.52	133.08	-90.00	-2,506.80	5,426.72	6,354.77	6,114.96	239.81	26.500		
18,100.00	7,730.00	7,681.00	7,681.00	159.22	133.08	-90.00	-2,506.80	5,426.72	6,441.28	6,201.46	239.82	26.859		
18,200.00	7,730.00	7,681.00	7,681.00	160.92	133.08	-90.00	-2,506.80	5,426.72	6,528.17	6,288.34	239.83	27.220		
18,300.00	7,730.00	7,681.00	7,681.00	162.62	133.08	-90.00	-2,506.80	5,426.72	6,615.44	6,375.60	239.84	27.583		
18,400.00	7,730.00	7,681.00	7,681.00	164.32	133.08	-90.00	-2,506.80	5,426.72	6,703.06	6,463.22	239.84	27.948		
18,426.22	7,730.00	7,681.00	7,681.00	164.76	133.08	-90.00	-2,506.80	5,426.72	6,726.09	6,486.25	239.84	28.044		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	143.23	-4,237.56	3,167.09	5,290.38					
100.00	100.00	73.00	73.00	0.13	0.61	143.23	-4,237.56	3,167.09	5,290.31	5,289.57	0.74	7,152.739		
200.00	200.00	173.00	173.00	0.49	2.10	143.23	-4,237.56	3,167.09	5,290.31	5,287.72	2.60	2,037.854		
300.00	300.00	273.00	273.00	0.85	3.85	143.23	-4,237.56	3,167.09	5,290.31	5,285.61	4.70	1,125.641		
400.00	400.00	373.00	373.00	1.21	5.59	143.23	-4,237.56	3,167.09	5,290.31	5,283.51	6.80	777.573		
500.00	500.00	473.00	473.00	1.57	7.34	143.23	-4,237.56	3,167.09	5,290.31	5,281.41	8.91	593.922		
600.00	600.00	573.00	573.00	1.93	9.08	143.23	-4,237.56	3,167.09	5,290.31	5,279.30	11.01	480.447		
700.00	700.00	673.00	673.00	2.29	10.83	143.23	-4,237.56	3,167.09	5,290.31	5,277.20	13.12	403.378		
800.00	800.00	773.00	773.00	2.64	12.58	143.23	-4,237.56	3,167.09	5,290.31	5,275.09	15.22	347.616		
900.00	900.00	873.00	873.00	3.00	14.32	143.23	-4,237.56	3,167.09	5,290.31	5,272.99	17.32	305.399		
1,000.00	1,000.00	973.00	973.00	3.36	16.07	143.23	-4,237.56	3,167.09	5,290.31	5,270.89	19.43	272.326		
1,100.00	1,100.00	1,073.00	1,073.00	3.72	17.81	143.23	-4,237.56	3,167.09	5,290.31	5,268.78	21.53	245.716		
1,200.00	1,200.00	1,173.00	1,173.00	4.08	19.56	143.23	-4,237.56	3,167.09	5,290.31	5,266.68	23.63	223.843		
1,300.00	1,299.98	1,272.98	1,272.98	4.43	21.30	96.12	-4,237.56	3,167.09	5,290.50	5,264.76	25.73	205.579		
1,400.00	1,399.84	1,372.84	1,372.84	4.79	23.04	96.17	-4,237.56	3,167.09	5,291.06	5,263.23	27.83	190.109		
1,500.00	1,499.45	1,472.45	1,472.45	5.15	24.78	96.24	-4,237.56	3,167.09	5,292.01	5,262.08	29.93	176.822		
1,600.00	1,598.70	1,571.70	1,571.70	5.51	26.52	96.34	-4,237.56	3,167.09	5,293.35	5,261.33	32.03	165.284		
1,700.00	1,697.47	1,670.47	1,670.47	5.89	28.24	96.47	-4,237.56	3,167.09	5,295.12	5,260.99	34.13	155.164		
1,800.00	1,795.62	1,768.62	1,768.62	6.28	29.95	96.63	-4,237.56	3,167.09	5,297.34	5,261.11	36.23	146.206		
1,900.00	1,893.06	1,866.06	1,866.06	6.69	31.65	96.81	-4,237.56	3,167.09	5,300.04	5,261.69	38.35	138.215		
2,000.00	1,989.64	1,962.64	1,962.64	7.13	33.34	97.02	-4,237.56	3,167.09	5,303.26	5,262.79	40.47	131.033		
2,100.00	2,085.27	2,058.27	2,058.27	7.61	35.01	97.24	-4,237.56	3,167.09	5,307.06	5,264.44	42.61	124.538		
2,200.00	2,179.82	2,152.82	2,152.82	8.12	36.66	97.48	-4,237.56	3,167.09	5,311.47	5,266.69	44.77	118.630		
2,300.00	2,273.17	2,246.17	2,246.17	8.67	38.29	97.74	-4,237.56	3,167.09	5,316.55	5,269.59	46.95	113.232		
2,400.00	2,365.21	2,338.21	2,338.21	9.27	39.89	98.01	-4,237.56	3,167.09	5,322.36	5,273.20	49.16	108.277		
2,500.00	2,455.84	2,428.84	2,428.84	9.92	41.47	98.29	-4,237.56	3,167.09	5,328.95	5,277.57	51.38	103.714		
2,580.62	2,527.80	2,500.80	2,500.80	10.49	42.73	98.52	-4,237.56	3,167.09	5,334.89	5,281.70	53.19	100.291		
2,600.00	2,544.97	2,517.97	2,517.97	10.63	43.03	98.60	-4,237.56	3,167.09	5,336.39	5,282.76	53.63	99.500		
2,700.00	2,633.58	2,606.58	2,606.58	11.37	44.58	99.04	-4,237.56	3,167.09	5,344.39	5,288.48	55.91	95.593		
2,800.00	2,722.19	2,704.81	2,695.19	12.13	46.29	99.47	-4,237.56	3,167.09	5,352.77	5,294.40	58.37	91.703		
2,900.00	2,810.80	2,783.80	2,783.80	12.91	47.67	99.91	-4,237.56	3,167.09	5,361.54	5,301.03	60.51	88.600		
3,000.00	2,899.41	2,872.41	2,872.41	13.71	49.22	100.34	-4,237.56	3,167.09	5,370.70	5,307.86	62.84	85.470		
3,100.00	2,988.02	2,961.02	2,961.02	14.52	50.76	100.77	-4,237.56	3,167.09	5,380.24	5,315.07	65.17	82.556		
3,200.00	3,076.63	3,049.63	3,049.63	15.34	52.31	101.21	-4,237.56	3,167.09	5,390.16	5,322.65	67.51	79.841		
3,300.00	3,165.24	3,138.24	3,138.24	16.16	53.86	101.64	-4,237.56	3,167.09	5,400.46	5,330.61	69.86	77.306		
3,400.00	3,253.85	3,226.85	3,226.85	17.00	55.40	102.06	-4,237.56	3,167.09	5,411.14	5,338.93	72.21	74.936		
3,500.00	3,342.46	3,315.46	3,315.46	17.84	56.95	102.49	-4,237.56	3,167.09	5,422.20	5,347.63	74.57	72.717		
3,600.00	3,431.07	3,404.07	3,404.07	18.69	58.50	102.92	-4,237.56	3,167.09	5,433.63	5,356.70	76.92	70.637		
3,700.00	3,519.68	3,507.32	3,492.68	19.55	60.30	103.34	-4,237.56	3,167.09	5,445.42	5,365.88	79.54	68.463		
3,800.00	3,608.29	3,581.29	3,581.29	20.40	61.59	103.76	-4,237.56	3,167.09	5,457.59	5,375.95	81.64	66.847		
3,900.00	3,696.90	3,669.90	3,669.90	21.26	63.14	104.18	-4,237.56	3,167.09	5,470.12	5,386.12	84.00	65.118		
4,000.00	3,785.51	3,758.51	3,758.51	22.13	64.68	104.60	-4,237.56	3,167.09	5,483.01	5,396.65	86.36	63.488		
4,100.00	3,874.12	3,847.12	3,847.12	23.00	66.23	105.02	-4,237.56	3,167.09	5,496.27	5,407.55	88.72	61.949		
4,200.00	3,962.73	3,935.73	3,935.73	23.87	67.78	105.44	-4,237.56	3,167.09	5,509.88	5,418.80	91.08	60.494		
4,300.00	4,051.34	4,024.34	4,024.34	24.74	69.32	105.85	-4,237.56	3,167.09	5,523.85	5,430.41	93.44	59.118		
4,400.00	4,139.95	4,112.95	4,112.95	25.62	70.87	106.27	-4,237.56	3,167.09	5,538.17	5,442.38	95.79	57.814		
4,500.00	4,228.56	4,201.56	4,201.56	26.49	72.41	106.68	-4,237.56	3,167.09	5,552.85	5,454.70	98.15	56.578		
4,600.00	4,317.17	4,309.83	4,290.17	27.37	74.30	107.09	-4,237.56	3,167.09	5,567.86	5,467.02	100.84	55.215		
4,700.00	4,405.78	4,378.78	4,378.78	28.25	75.51	107.50	-4,237.56	3,167.09	5,583.23	5,480.38	102.84	54.288		
4,800.00	4,494.39	4,467.39	4,467.39	29.13	77.05	107.90	-4,237.56	3,167.09	5,598.93	5,493.74	105.19	53.227		
4,900.00	4,583.00	4,556.00	4,556.00	30.02	78.60	108.31	-4,237.56	3,167.09	5,614.97	5,507.44	107.53	52.217		
5,000.00	4,671.61	4,644.61	4,644.61	30.90	80.15	108.71	-4,237.56	3,167.09	5,631.35	5,521.48	109.87	51.255		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,733.22	4,733.22	31.79	81.69	109.11	-4,237.56	3,167.09	5,648.06	5,535.86	112.21	50.337		
5,200.00	4,848.83	4,821.83	4,821.83	32.67	83.24	109.51	-4,237.56	3,167.09	5,665.11	5,550.57	114.54	49.460		
5,300.00	4,937.44	4,910.44	4,910.44	33.56	84.79	109.90	-4,237.56	3,167.09	5,682.47	5,565.61	116.87	48.623		
5,400.00	5,026.05	5,000.95	4,999.05	34.45	86.37	110.30	-4,237.56	3,167.09	5,700.17	5,580.94	119.23	47.810		
5,500.00	5,114.66	5,050.00	5,050.00	35.34	87.22	110.52	-4,237.56	3,167.09	5,718.30	5,597.46	120.84	47.320		
5,600.00	5,203.27	5,050.00	5,050.00	36.23	87.22	110.52	-4,237.56	3,167.09	5,737.90	5,616.34	121.56	47.202		
5,700.00	5,291.88	5,050.00	5,050.00	37.12	87.22	110.52	-4,237.56	3,167.09	5,759.17	5,636.93	122.24	47.113		
5,800.00	5,380.50	5,050.00	5,050.00	38.01	87.22	110.52	-4,237.56	3,167.09	5,782.09	5,659.19	122.89	47.050		
5,900.00	5,469.11	5,050.00	5,050.00	38.90	87.22	110.52	-4,237.56	3,167.09	5,806.64	5,683.13	123.51	47.014		
6,000.00	5,557.72	5,050.00	5,050.00	39.79	87.22	110.52	-4,237.56	3,167.09	5,832.80	5,708.71	124.09	47.003		
6,100.00	5,646.33	5,050.00	5,050.00	40.68	87.22	110.52	-4,237.56	3,167.09	5,860.55	5,735.91	124.65	47.018		
6,200.00	5,734.94	5,050.00	5,050.00	41.58	87.22	110.52	-4,237.56	3,167.09	5,889.87	5,764.70	125.16	47.057		
6,300.00	5,823.55	5,050.00	5,050.00	42.47	87.22	110.52	-4,237.56	3,167.09	5,920.73	5,795.08	125.65	47.120		
6,400.00	5,912.16	5,050.00	5,050.00	43.36	87.22	110.52	-4,237.56	3,167.09	5,953.11	5,827.00	126.11	47.206		
6,500.00	6,000.77	5,050.00	5,050.00	44.26	87.22	110.52	-4,237.56	3,167.09	5,986.99	5,860.46	126.54	47.314		
6,600.00	6,089.38	5,050.00	5,050.00	45.15	87.22	110.52	-4,237.56	3,167.09	6,022.34	5,895.41	126.93	47.444		
6,700.00	6,177.99	5,050.00	5,050.00	46.05	87.22	110.52	-4,237.56	3,167.09	6,059.13	5,931.83	127.30	47.596		
6,800.00	6,266.60	5,050.00	5,050.00	46.94	87.22	110.52	-4,237.56	3,167.09	6,097.34	5,969.70	127.64	47.768		
6,900.00	6,355.21	5,050.00	5,050.00	47.84	87.22	110.52	-4,237.56	3,167.09	6,136.95	6,008.99	127.96	47.961		
7,000.00	6,443.82	5,050.00	5,050.00	48.74	87.22	110.52	-4,237.56	3,167.09	6,177.91	6,049.67	128.24	48.173		
7,100.00	6,532.43	5,050.00	5,050.00	49.63	87.22	110.52	-4,237.56	3,167.09	6,220.22	6,091.71	128.51	48.404		
7,200.00	6,621.04	5,050.00	5,050.00	50.53	87.22	110.52	-4,237.56	3,167.09	6,263.84	6,135.09	128.74	48.653		
7,300.00	6,709.65	5,050.00	5,050.00	51.42	87.22	110.52	-4,237.56	3,167.09	6,308.74	6,179.78	128.96	48.921		
7,400.00	6,798.26	5,050.00	5,050.00	52.32	87.22	110.52	-4,237.56	3,167.09	6,354.89	6,225.74	129.15	49.206		
7,500.00	6,886.87	5,050.00	5,050.00	53.22	87.22	110.52	-4,237.56	3,167.09	6,402.28	6,272.96	129.32	49.508		
7,600.00	6,975.48	5,050.00	5,050.00	54.12	87.22	110.52	-4,237.56	3,167.09	6,450.87	6,321.40	129.47	49.826		
7,656.30	7,025.36	5,050.00	5,050.00	54.62	87.22	110.52	-4,237.56	3,167.09	6,478.74	6,349.19	129.54	50.012		
7,700.00	7,064.54	5,050.00	5,050.00	55.00	87.22	104.12	-4,237.56	3,167.09	6,499.25	6,369.66	129.59	50.153		
7,750.00	7,110.29	5,050.00	5,050.00	55.40	87.22	94.77	-4,237.56	3,167.09	6,519.51	6,389.90	129.62	50.299		
7,800.00	7,156.67	5,050.00	5,050.00	55.75	87.22	83.41	-4,237.56	3,167.09	6,536.25	6,406.63	129.62	50.427		
7,850.00	7,203.34	5,050.00	5,050.00	56.05	87.22	70.85	-4,237.56	3,167.09	6,549.36	6,419.77	129.59	50.540		
7,900.00	7,249.95	5,050.00	5,050.00	56.30	87.22	58.42	-4,237.56	3,167.09	6,558.76	6,429.24	129.52	50.638		
7,950.00	7,296.14	5,050.00	5,050.00	56.50	87.22	47.31	-4,237.56	3,167.09	6,564.41	6,434.98	129.42	50.720		
8,000.00	7,341.56	5,050.00	5,050.00	56.64	87.22	38.06	-4,237.56	3,167.09	6,566.25	6,436.96	129.29	50.787		
8,050.00	7,385.86	5,050.00	5,050.00	56.74	87.22	30.62	-4,237.56	3,167.09	6,564.29	6,435.17	129.12	50.837		
8,100.00	7,428.71	5,050.00	5,050.00	56.79	87.22	24.67	-4,237.56	3,167.09	6,558.54	6,429.61	128.93	50.869		
8,150.00	7,469.77	5,050.00	5,050.00	56.80	87.22	19.87	-4,237.56	3,167.09	6,549.02	6,420.31	128.71	50.883		
8,200.00	7,508.75	5,050.00	5,050.00	56.77	87.22	15.91	-4,237.56	3,167.09	6,535.80	6,407.34	128.46	50.878		
8,250.00	7,545.33	5,050.00	5,050.00	56.70	87.22	12.56	-4,237.56	3,167.09	6,518.96	6,390.76	128.19	50.853		
8,300.00	7,579.25	5,050.00	5,050.00	56.59	87.22	9.62	-4,237.56	3,167.09	6,498.58	6,370.68	127.91	50.807		
8,350.00	7,610.24	5,050.00	5,050.00	56.45	87.22	6.94	-4,237.56	3,167.09	6,474.81	6,347.20	127.61	50.741		
8,400.00	7,638.06	5,050.00	5,050.00	56.28	87.22	4.41	-4,237.56	3,167.09	6,447.78	6,320.48	127.29	50.653		
8,450.00	7,662.52	5,050.00	5,050.00	56.09	87.22	1.90	-4,237.56	3,167.09	6,417.65	6,290.68	126.97	50.543		
8,500.00	7,683.41	5,050.00	5,050.00	55.88	87.22	-0.69	-4,237.56	3,167.09	6,384.62	6,257.97	126.65	50.410		
8,550.00	7,700.59	5,050.00	5,050.00	55.64	87.22	-3.50	-4,237.56	3,167.09	6,348.90	6,222.56	126.33	50.256		
8,600.00	7,713.91	5,050.00	5,050.00	55.39	87.22	-6.69	-4,237.56	3,167.09	6,310.70	6,184.68	126.02	50.079		
8,650.00	7,723.29	5,050.00	5,050.00	55.14	87.22	-10.47	-4,237.56	3,167.09	6,270.28	6,144.57	125.71	49.879		
8,700.00	7,728.64	5,050.00	5,050.00	54.87	87.22	-15.11	-4,237.56	3,167.09	6,227.91	6,102.50	125.42	49.658		
8,740.83	7,730.00	5,050.00	5,050.00	54.65	87.22	-19.81	-4,237.56	3,167.09	6,192.06	6,066.87	125.19	49.461		
8,800.00	7,730.00	5,050.00	5,050.00	54.33	87.22	-19.81	-4,237.56	3,167.09	6,139.45	6,014.58	124.87	49.168		
8,900.00	7,730.00	5,050.00	5,050.00	53.82	87.22	-19.81	-4,237.56	3,167.09	6,050.79	5,926.48	124.31	48.676		
9,000.00	7,730.00	5,050.00	5,050.00	53.33	87.22	-19.81	-4,237.56	3,167.09	5,962.50	5,838.76	123.73	48.189		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,050.00	5,050.00	52.87	87.22	-19.81	-4,237.56	3,167.09	5,874.58	5,751.43	123.14	47.706		
9,200.00	7,730.00	5,050.00	5,050.00	52.44	87.22	-19.81	-4,237.56	3,167.09	5,787.05	5,664.51	122.54	47.227		
9,300.00	7,730.00	5,050.00	5,050.00	52.03	87.22	-19.81	-4,237.56	3,167.09	5,699.93	5,578.02	121.91	46.754		
9,400.00	7,730.00	5,050.00	5,050.00	51.65	87.22	-19.81	-4,237.56	3,167.09	5,613.24	5,491.97	121.28	46.285		
9,500.00	7,730.00	5,050.00	5,050.00	51.29	87.22	-19.81	-4,237.56	3,167.09	5,527.01	5,406.38	120.62	45.821		
9,600.00	7,730.00	5,050.00	5,050.00	50.95	87.22	-19.81	-4,237.56	3,167.09	5,441.24	5,321.29	119.95	45.362		
9,700.00	7,730.00	5,050.00	5,050.00	50.64	87.22	-19.81	-4,237.56	3,167.09	5,355.97	5,236.70	119.26	44.908		
9,800.00	7,730.00	5,050.00	5,050.00	50.35	87.22	-19.81	-4,237.56	3,167.09	5,271.21	5,152.65	118.56	44.460		
9,900.00	7,730.00	5,050.00	5,050.00	50.09	87.22	-19.81	-4,237.56	3,167.09	5,187.00	5,069.16	117.84	44.018		
10,000.00	7,730.00	5,050.00	5,050.00	49.86	87.22	-19.81	-4,237.56	3,167.09	5,103.36	4,986.25	117.10	43.581		
10,100.00	7,730.00	5,050.00	5,050.00	49.65	87.22	-19.81	-4,237.56	3,167.09	5,020.31	4,903.96	116.35	43.150		
10,200.00	7,730.00	5,050.00	5,050.00	49.48	87.22	-19.81	-4,237.56	3,167.09	4,937.89	4,822.32	115.58	42.724		
10,300.00	7,730.00	5,050.00	5,050.00	49.35	87.22	-19.81	-4,237.56	3,167.09	4,856.14	4,741.35	114.79	42.305		
10,400.00	7,730.00	5,050.00	5,050.00	49.27	87.22	-19.81	-4,237.56	3,167.09	4,775.08	4,661.09	113.99	41.891		
10,500.00	7,730.00	5,050.00	5,050.00	49.26	87.22	-19.81	-4,237.56	3,167.09	4,694.75	4,581.58	113.17	41.483		
10,600.00	7,730.00	5,050.00	5,050.00	49.32	87.22	-19.81	-4,237.56	3,167.09	4,615.19	4,502.84	112.34	41.081		
10,700.00	7,730.00	5,050.00	5,050.00	49.51	87.22	-19.81	-4,237.56	3,167.09	4,536.43	4,424.93	111.50	40.685		
10,800.00	7,730.00	5,050.00	5,050.00	49.83	87.22	-19.81	-4,237.56	3,167.09	4,458.53	4,347.89	110.65	40.295		
10,900.00	7,730.00	5,050.00	5,050.00	50.31	87.22	-19.81	-4,237.56	3,167.09	4,381.53	4,271.74	109.79	39.910		
11,000.00	7,730.00	5,050.00	5,050.00	50.96	87.22	-19.81	-4,237.56	3,167.09	4,305.47	4,196.56	108.92	39.530		
11,100.00	7,730.00	5,050.00	5,050.00	51.75	87.22	-19.81	-4,237.56	3,167.09	4,230.41	4,122.37	108.04	39.155		
11,200.00	7,730.00	5,050.00	5,050.00	52.66	87.22	-19.81	-4,237.56	3,167.09	4,156.40	4,049.23	107.17	38.785		
11,300.00	7,730.00	5,050.00	5,050.00	53.67	87.22	-19.81	-4,237.56	3,167.09	4,083.50	3,977.21	106.29	38.418		
11,400.00	7,730.00	5,050.00	5,050.00	54.75	87.22	-19.81	-4,237.56	3,167.09	4,011.76	3,906.35	105.42	38.056		
11,500.00	7,730.00	5,050.00	5,050.00	55.89	87.22	-19.81	-4,237.56	3,167.09	3,941.26	3,836.71	104.55	37.697		
11,600.00	7,730.00	5,050.00	5,050.00	57.07	87.22	-19.81	-4,237.56	3,167.09	3,872.06	3,768.36	103.70	37.340		
11,700.00	7,730.00	5,050.00	5,050.00	58.30	87.22	-19.81	-4,237.56	3,167.09	3,804.22	3,701.37	102.86	36.986		
11,800.00	7,730.00	5,050.00	5,050.00	59.55	87.22	-19.81	-4,237.56	3,167.09	3,737.83	3,635.80	102.03	36.634		
11,900.00	7,730.00	5,050.00	5,050.00	60.84	87.22	-19.81	-4,237.56	3,167.09	3,672.97	3,571.73	101.23	36.282		
12,000.00	7,730.00	5,050.00	5,050.00	62.15	87.22	-19.81	-4,237.56	3,167.09	3,609.70	3,509.24	100.46	35.932		
12,100.00	7,730.00	5,050.00	5,050.00	63.49	87.22	-19.81	-4,237.56	3,167.09	3,548.13	3,448.42	99.72	35.582		
12,200.00	7,730.00	5,050.00	5,050.00	64.85	87.22	-19.81	-4,237.56	3,167.09	3,488.34	3,389.33	99.01	35.233		
12,300.00	7,730.00	5,050.00	5,050.00	66.22	87.22	-19.81	-4,237.56	3,167.09	3,430.43	3,332.09	98.34	34.883		
12,400.00	7,730.00	5,050.00	5,050.00	67.62	87.22	-19.81	-4,237.56	3,167.09	3,374.48	3,276.76	97.71	34.534		
12,500.00	7,730.00	5,050.00	5,050.00	69.03	87.22	-19.81	-4,237.56	3,167.09	3,320.60	3,223.47	97.14	34.185		
12,600.00	7,730.00	5,050.00	5,050.00	70.45	87.22	-19.81	-4,237.56	3,167.09	3,268.90	3,172.29	96.61	33.837		
12,700.00	7,730.00	5,050.00	5,050.00	71.90	87.22	-19.81	-4,237.56	3,167.09	3,219.47	3,123.33	96.13	33.489		
12,800.00	7,730.00	5,050.00	5,050.00	73.35	87.22	-19.81	-4,237.56	3,167.09	3,172.42	3,076.70	95.72	33.143		
12,900.00	7,730.00	5,050.00	5,050.00	74.81	87.22	-19.81	-4,237.56	3,167.09	3,127.87	3,032.50	95.37	32.798		
13,000.00	7,730.00	5,050.00	5,050.00	76.29	87.22	-19.81	-4,237.56	3,167.09	3,085.91	2,990.82	95.08	32.454		
13,100.00	7,730.00	5,050.00	5,050.00	77.78	87.22	-19.81	-4,237.56	3,167.09	3,046.66	2,951.78	94.88	32.112		
13,200.00	7,730.00	5,050.00	5,050.00	79.28	87.22	-19.81	-4,237.56	3,167.09	3,010.22	2,915.47	94.75	31.770		
13,300.00	7,730.00	5,050.00	5,050.00	80.79	87.22	-19.81	-4,237.56	3,167.09	2,976.69	2,881.98	94.71	31.428		
13,400.00	7,730.00	5,050.00	5,050.00	82.31	87.22	-19.81	-4,237.56	3,167.09	2,946.18	2,851.40	94.78	31.084		
13,500.00	7,730.00	5,050.00	5,050.00	83.84	87.22	-19.81	-4,237.56	3,167.09	2,918.78	2,823.82	94.96	30.737		
13,600.00	7,730.00	5,050.00	5,050.00	85.37	87.22	-19.81	-4,237.56	3,167.09	2,894.57	2,799.30	95.27	30.383		
13,700.00	7,730.00	5,050.00	5,050.00	86.92	87.22	-19.81	-4,237.56	3,167.09	2,873.64	2,777.92	95.72	30.020		
13,800.00	7,730.00	5,050.00	5,050.00	88.47	87.22	-19.81	-4,237.56	3,167.09	2,856.07	2,759.73	96.34	29.646		
13,900.00	7,730.00	5,050.00	5,050.00	90.03	87.22	-19.81	-4,237.56	3,167.09	2,841.90	2,744.77	97.14	29.257		
14,000.00	7,730.00	5,050.00	5,050.00	91.59	87.22	-19.81	-4,237.56	3,167.09	2,831.20	2,733.07	98.13	28.853		
14,100.00	7,730.00	5,050.00	5,050.00	93.16	87.22	-19.81	-4,237.56	3,167.09	2,824.00	2,724.68	99.32	28.432		
14,200.00	7,730.00	5,050.00	5,050.00	94.74	87.22	-19.81	-4,237.56	3,167.09	2,820.33	2,719.60	100.74	27.997		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,253.57	7,730.00	5,050.00	5,050.00	95.59	87.22	-19.81	-4,237.56	3,167.09	2,819.82	2,718.24	101.58	27.760	CC	
14,300.00	7,730.00	5,050.00	5,050.00	96.33	87.22	-19.81	-4,237.56	3,167.09	2,820.20	2,717.85	102.36	27.552	ES	
14,400.00	7,730.00	5,050.00	5,050.00	97.92	87.22	-19.81	-4,237.56	3,167.09	2,823.62	2,719.44	104.19	27.102		
14,500.00	7,730.00	5,050.00	5,050.00	99.51	87.22	-19.81	-4,237.56	3,167.09	2,830.57	2,724.37	106.20	26.654		
14,600.00	7,730.00	5,050.00	5,050.00	101.11	87.22	-19.81	-4,237.56	3,167.09	2,841.02	2,732.65	108.37	26.215		
14,700.00	7,730.00	5,050.00	5,050.00	102.72	87.22	-19.81	-4,237.56	3,167.09	2,854.94	2,744.26	110.68	25.795		
14,800.00	7,730.00	5,050.00	5,050.00	104.33	87.22	-19.81	-4,237.56	3,167.09	2,872.28	2,759.19	113.09	25.399		
14,900.00	7,730.00	5,050.00	5,050.00	105.94	87.22	-19.81	-4,237.56	3,167.09	2,892.97	2,777.41	115.56	25.033		
15,000.00	7,730.00	5,050.00	5,050.00	107.56	87.22	-19.81	-4,237.56	3,167.09	2,916.94	2,798.87	118.08	24.704		
15,100.00	7,730.00	5,050.00	5,050.00	109.18	87.22	-19.81	-4,237.56	3,167.09	2,944.12	2,823.52	120.60	24.412		
15,200.00	7,730.00	5,050.00	5,050.00	110.81	87.22	-19.81	-4,237.56	3,167.09	2,974.41	2,851.31	123.10	24.162		
15,300.00	7,730.00	5,050.00	5,050.00	112.44	87.22	-19.81	-4,237.56	3,167.09	3,007.73	2,882.16	125.57	23.952		
15,400.00	7,730.00	5,050.00	5,050.00	114.08	87.22	-19.81	-4,237.56	3,167.09	3,043.96	2,915.98	127.98	23.785		
15,500.00	7,730.00	5,050.00	5,050.00	115.72	87.22	-19.81	-4,237.56	3,167.09	3,083.02	2,952.70	130.32	23.658		
15,600.00	7,730.00	5,050.00	5,050.00	117.36	87.22	-19.81	-4,237.56	3,167.09	3,124.78	2,992.21	132.57	23.570		
15,700.00	7,730.00	5,050.00	5,050.00	119.00	87.22	-19.81	-4,237.56	3,167.09	3,169.16	3,034.42	134.74	23.521		
15,800.00	7,730.00	5,050.00	5,050.00	120.65	87.22	-19.81	-4,237.56	3,167.09	3,216.03	3,079.22	136.81	23.508	SF	
15,900.00	7,730.00	5,050.00	5,050.00	122.30	87.22	-19.81	-4,237.56	3,167.09	3,265.29	3,126.52	138.78	23.529		
16,000.00	7,730.00	5,050.00	5,050.00	123.96	87.22	-19.81	-4,237.56	3,167.09	3,316.84	3,176.19	140.65	23.583		
16,100.00	7,730.00	5,050.00	5,050.00	125.61	87.22	-19.81	-4,237.56	3,167.09	3,370.57	3,228.15	142.41	23.668		
16,200.00	7,730.00	5,050.00	5,050.00	127.27	87.22	-19.81	-4,237.56	3,167.09	3,426.37	3,282.29	144.08	23.781		
16,300.00	7,730.00	5,050.00	5,050.00	128.94	87.22	-19.81	-4,237.56	3,167.09	3,484.15	3,338.50	145.65	23.922		
16,400.00	7,730.00	5,050.00	5,050.00	130.60	87.22	-19.81	-4,237.56	3,167.09	3,543.81	3,396.69	147.12	24.088		
16,500.00	7,730.00	5,050.00	5,050.00	132.27	87.22	-19.81	-4,237.56	3,167.09	3,605.25	3,456.76	148.50	24.278		
16,600.00	7,730.00	5,050.00	5,050.00	133.94	87.22	-19.81	-4,237.56	3,167.09	3,668.40	3,518.61	149.79	24.490		
16,700.00	7,730.00	5,050.00	5,050.00	135.61	87.22	-19.81	-4,237.56	3,167.09	3,733.15	3,582.16	151.00	24.723		
16,800.00	7,730.00	5,050.00	5,050.00	137.28	87.22	-19.81	-4,237.56	3,167.09	3,799.44	3,647.31	152.13	24.976		
16,900.00	7,730.00	5,050.00	5,050.00	138.96	87.22	-19.81	-4,237.56	3,167.09	3,867.17	3,713.99	153.18	25.246		
17,000.00	7,730.00	5,050.00	5,050.00	140.64	87.22	-19.81	-4,237.56	3,167.09	3,936.28	3,782.12	154.16	25.534		
17,100.00	7,730.00	5,050.00	5,050.00	142.32	87.22	-19.81	-4,237.56	3,167.09	4,006.69	3,851.62	155.07	25.838		
17,200.00	7,730.00	5,050.00	5,050.00	144.00	87.22	-19.81	-4,237.56	3,167.09	4,078.34	3,922.42	155.92	26.157		
17,300.00	7,730.00	5,050.00	5,050.00	145.69	87.22	-19.81	-4,237.56	3,167.09	4,151.16	3,994.46	156.71	26.490		
17,400.00	7,730.00	5,050.00	5,050.00	147.37	87.22	-19.81	-4,237.56	3,167.09	4,225.10	4,067.65	157.44	26.836		
17,500.00	7,730.00	5,050.00	5,050.00	149.06	87.22	-19.81	-4,237.56	3,167.09	4,300.08	4,141.96	158.12	27.194		
17,600.00	7,730.00	5,050.00	5,050.00	150.75	87.22	-19.81	-4,237.56	3,167.09	4,376.07	4,217.32	158.76	27.565		
17,700.00	7,730.00	5,050.00	5,050.00	152.44	87.22	-19.81	-4,237.56	3,167.09	4,453.01	4,293.66	159.35	27.946		
17,800.00	7,730.00	5,050.00	5,050.00	154.13	87.22	-19.81	-4,237.56	3,167.09	4,530.85	4,370.96	159.89	28.337		
17,900.00	7,730.00	5,050.00	5,050.00	155.83	87.22	-19.81	-4,237.56	3,167.09	4,609.54	4,449.14	160.40	28.738		
18,000.00	7,730.00	5,050.00	5,050.00	157.52	87.22	-19.81	-4,237.56	3,167.09	4,689.05	4,528.18	160.87	29.148		
18,100.00	7,730.00	5,050.00	5,050.00	159.22	87.22	-19.81	-4,237.56	3,167.09	4,769.32	4,608.02	161.30	29.567		
18,200.00	7,730.00	5,050.00	5,050.00	160.92	87.22	-19.81	-4,237.56	3,167.09	4,850.33	4,688.62	161.71	29.994		
18,300.00	7,730.00	5,050.00	5,050.00	162.62	87.22	-19.81	-4,237.56	3,167.09	4,932.04	4,769.96	162.09	30.429		
18,400.00	7,730.00	5,050.00	5,050.00	164.32	87.22	-19.81	-4,237.56	3,167.09	5,014.41	4,851.98	162.43	30.871		
18,426.22	7,730.00	5,050.00	5,050.00	164.76	87.22	-19.81	-4,237.56	3,167.09	5,036.11	4,873.59	162.52	30.988		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	156.44	-4,237.70	1,848.05	4,623.20					
100.00	100.00	75.00	75.00	0.13	0.62	156.44	-4,237.70	1,848.05	4,623.14	4,622.39	0.75	6,167.007		
200.00	200.00	175.00	175.00	0.49	2.13	156.44	-4,237.70	1,848.05	4,623.14	4,620.51	2.62	1,763.074		
300.00	300.00	275.00	275.00	0.85	3.87	156.44	-4,237.70	1,848.05	4,623.14	4,618.41	4.73	978.234		
400.00	400.00	375.00	375.00	1.21	5.62	156.44	-4,237.70	1,848.05	4,623.14	4,616.31	6.83	676.906		
500.00	500.00	475.00	475.00	1.57	7.37	156.44	-4,237.70	1,848.05	4,623.14	4,614.20	8.93	517.499		
600.00	600.00	575.00	575.00	1.93	9.11	156.44	-4,237.70	1,848.05	4,623.14	4,612.10	11.04	418.861		
700.00	700.00	675.00	675.00	2.29	10.86	156.44	-4,237.70	1,848.05	4,623.14	4,609.99	13.14	351.805		
800.00	800.00	775.00	775.00	2.64	12.60	156.44	-4,237.70	1,848.05	4,623.14	4,607.89	15.25	303.256		
900.00	900.00	875.00	875.00	3.00	14.35	156.44	-4,237.70	1,848.05	4,623.14	4,605.79	17.35	266.481		
1,000.00	1,000.00	975.00	975.00	3.36	16.09	156.44	-4,237.70	1,848.05	4,623.14	4,603.68	19.45	237.661		
1,100.00	1,100.00	1,075.00	1,075.00	3.72	17.84	156.44	-4,237.70	1,848.05	4,623.14	4,601.58	21.56	214.467		
1,200.00	1,200.00	1,175.00	1,175.00	4.08	19.58	156.44	-4,237.70	1,848.05	4,623.14	4,599.48	23.66	195.397		
1,300.00	1,299.98	1,274.98	1,274.98	4.43	21.33	109.33	-4,237.70	1,848.05	4,623.71	4,597.95	25.76	179.485		
1,400.00	1,399.84	1,374.84	1,374.84	4.79	23.07	109.35	-4,237.70	1,848.05	4,625.45	4,597.59	27.86	166.033		
1,500.00	1,499.45	1,474.45	1,474.45	5.15	24.81	109.40	-4,237.70	1,848.05	4,628.35	4,598.39	29.96	154.507		
1,600.00	1,598.70	1,573.70	1,573.70	5.51	26.54	109.47	-4,237.70	1,848.05	4,632.43	4,600.38	32.05	144.524		
1,700.00	1,697.47	1,672.47	1,672.47	5.89	28.27	109.55	-4,237.70	1,848.05	4,637.71	4,603.56	34.15	135.794		
1,800.00	1,795.62	1,770.62	1,770.62	6.28	29.98	109.64	-4,237.70	1,848.05	4,644.22	4,607.96	36.26	128.095		
1,900.00	1,893.06	1,868.06	1,868.06	6.69	31.68	109.75	-4,237.70	1,848.05	4,651.98	4,613.61	38.37	121.252		
2,000.00	1,989.64	1,964.64	1,964.64	7.13	33.36	109.87	-4,237.70	1,848.05	4,661.02	4,620.54	40.49	115.129		
2,100.00	2,085.27	2,060.27	2,060.27	7.61	35.03	110.00	-4,237.70	1,848.05	4,671.39	4,628.78	42.62	109.617		
2,200.00	2,179.82	2,154.82	2,154.82	8.12	36.68	110.13	-4,237.70	1,848.05	4,683.13	4,638.37	44.76	104.628		
2,300.00	2,273.17	2,248.17	2,248.17	8.67	38.31	110.27	-4,237.70	1,848.05	4,696.27	4,649.35	46.92	100.093		
2,400.00	2,365.21	2,340.21	2,340.21	9.27	39.92	110.41	-4,237.70	1,848.05	4,710.87	4,661.77	49.09	95.955		
2,500.00	2,455.84	2,430.84	2,430.84	9.92	41.50	110.55	-4,237.70	1,848.05	4,726.97	4,675.68	51.29	92.165		
2,580.62	2,527.80	2,502.80	2,502.80	10.49	42.76	110.65	-4,237.70	1,848.05	4,741.08	4,688.01	53.07	89.339		
2,600.00	2,544.97	2,519.97	2,519.97	10.63	43.06	110.74	-4,237.70	1,848.05	4,744.60	4,691.11	53.50	88.687		
2,700.00	2,633.58	2,608.58	2,608.58	11.37	44.60	111.21	-4,237.70	1,848.05	4,763.01	4,707.28	55.73	85.470		
2,800.00	2,722.19	2,702.81	2,697.19	12.13	46.25	111.68	-4,237.70	1,848.05	4,781.79	4,723.72	58.07	82.346		
2,900.00	2,810.80	2,785.80	2,785.80	12.91	47.70	112.14	-4,237.70	1,848.05	4,800.95	4,740.72	60.23	79.712		
3,000.00	2,899.41	2,874.41	2,874.41	13.71	49.24	112.60	-4,237.70	1,848.05	4,820.48	4,757.98	62.49	77.134		
3,100.00	2,988.02	2,963.02	2,963.02	14.52	50.79	113.06	-4,237.70	1,848.05	4,840.37	4,775.60	64.77	74.734		
3,200.00	3,076.63	3,051.63	3,051.63	15.34	52.34	113.52	-4,237.70	1,848.05	4,860.62	4,793.58	67.05	72.497		
3,300.00	3,165.24	3,140.24	3,140.24	16.16	53.88	113.97	-4,237.70	1,848.05	4,881.23	4,811.91	69.33	70.408		
3,400.00	3,253.85	3,228.85	3,228.85	17.00	55.43	114.42	-4,237.70	1,848.05	4,902.19	4,830.58	71.61	68.455		
3,500.00	3,342.46	3,317.46	3,317.46	17.84	56.98	114.86	-4,237.70	1,848.05	4,923.50	4,849.61	73.90	66.627		
3,600.00	3,431.07	3,406.07	3,406.07	18.69	58.52	115.31	-4,237.70	1,848.05	4,945.15	4,868.97	76.18	64.912		
3,700.00	3,519.68	3,505.32	3,494.68	19.55	60.25	115.75	-4,237.70	1,848.05	4,967.14	4,888.49	78.65	63.153		
3,800.00	3,608.29	3,583.29	3,583.29	20.40	61.62	116.18	-4,237.70	1,848.05	4,989.46	4,908.71	80.75	61.789		
3,900.00	3,696.90	3,671.90	3,671.90	21.26	63.16	116.61	-4,237.70	1,848.05	5,012.11	4,929.08	83.03	60.364		
4,000.00	3,785.51	3,760.51	3,760.51	22.13	64.71	117.04	-4,237.70	1,848.05	5,035.09	4,949.78	85.31	59.020		
4,100.00	3,874.12	3,849.12	3,849.12	23.00	66.25	117.47	-4,237.70	1,848.05	5,058.39	4,970.80	87.59	57.751		
4,200.00	3,962.73	3,937.73	3,937.73	23.87	67.80	117.89	-4,237.70	1,848.05	5,082.00	4,992.14	89.86	56.552		
4,300.00	4,051.34	4,026.34	4,026.34	24.74	69.35	118.31	-4,237.70	1,848.05	5,105.92	5,013.79	92.14	55.418		
4,400.00	4,139.95	4,114.95	4,114.95	25.62	70.89	118.73	-4,237.70	1,848.05	5,130.15	5,035.75	94.40	54.343		
4,500.00	4,228.56	4,203.56	4,203.56	26.49	72.44	119.14	-4,237.70	1,848.05	5,154.69	5,058.02	96.67	53.324		
4,600.00	4,317.17	4,307.83	4,292.17	27.37	74.26	119.55	-4,237.70	1,848.05	5,179.52	5,080.32	99.20	52.212		
4,700.00	4,405.78	4,380.78	4,380.78	28.25	75.53	119.96	-4,237.70	1,848.05	5,204.65	5,103.46	101.19	51.436		
4,800.00	4,494.39	4,469.39	4,469.39	29.13	77.08	120.36	-4,237.70	1,848.05	5,230.06	5,126.62	103.44	50.561		
4,900.00	4,583.00	4,558.00	4,558.00	30.02	78.63	120.76	-4,237.70	1,848.05	5,255.77	5,150.08	105.69	49.728		
5,000.00	4,671.61	4,646.61	4,646.61	30.90	80.17	121.16	-4,237.70	1,848.05	5,281.75	5,173.82	107.94	48.934		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,735.22	4,735.22	31.79	81.72	121.55	-4,237.70	1,848.05	5,308.01	5,197.84	110.18	48.177		
5,200.00	4,848.83	4,823.83	4,823.83	32.67	83.27	121.94	-4,237.70	1,848.05	5,334.55	5,222.13	112.41	47.454		
5,300.00	4,937.44	4,912.44	4,912.44	33.56	84.81	122.33	-4,237.70	1,848.05	5,361.35	5,246.71	114.65	46.764		
5,400.00	5,026.05	5,001.05	5,001.05	34.45	86.36	122.71	-4,237.70	1,848.05	5,388.42	5,271.55	116.88	46.104		
5,500.00	5,114.66	5,089.66	5,089.66	35.34	87.91	123.09	-4,237.70	1,848.05	5,415.75	5,296.65	119.10	45.472		
5,600.00	5,203.27	5,178.27	5,178.27	36.23	89.45	123.47	-4,237.70	1,848.05	5,443.34	5,322.02	121.32	44.867		
5,700.00	5,291.88	5,266.88	5,266.88	37.12	91.00	123.84	-4,237.70	1,848.05	5,471.19	5,347.65	123.54	44.288		
5,800.00	5,380.50	5,355.50	5,355.50	38.01	92.55	124.21	-4,237.70	1,848.05	5,499.28	5,373.53	125.75	43.732		
5,900.00	5,469.11	5,444.11	5,444.11	38.90	94.09	124.58	-4,237.70	1,848.05	5,527.62	5,399.66	127.96	43.199		
6,000.00	5,557.72	5,450.00	5,450.00	39.79	94.20	124.60	-4,237.70	1,848.05	5,556.81	5,428.16	128.65	43.192		
6,100.00	5,646.33	5,450.00	5,450.00	40.68	94.20	124.60	-4,237.70	1,848.05	5,587.64	5,458.44	129.21	43.246		
6,200.00	5,734.94	5,450.00	5,450.00	41.58	94.20	124.60	-4,237.70	1,848.05	5,620.08	5,490.36	129.72	43.324		
6,300.00	5,823.55	5,450.00	5,450.00	42.47	94.20	124.60	-4,237.70	1,848.05	5,654.10	5,523.90	130.20	43.426		
6,400.00	5,912.16	5,450.00	5,450.00	43.36	94.20	124.60	-4,237.70	1,848.05	5,689.68	5,559.04	130.65	43.550		
6,500.00	6,000.77	5,450.00	5,450.00	44.26	94.20	124.60	-4,237.70	1,848.05	5,726.78	5,595.73	131.06	43.697		
6,600.00	6,089.38	5,450.00	5,450.00	45.15	94.20	124.60	-4,237.70	1,848.05	5,765.38	5,633.95	131.43	43.866		
6,700.00	6,177.99	5,450.00	5,450.00	46.05	94.20	124.60	-4,237.70	1,848.05	5,805.45	5,673.67	131.78	44.055		
6,800.00	6,266.60	5,450.00	5,450.00	46.94	94.20	124.60	-4,237.70	1,848.05	5,846.95	5,714.86	132.09	44.265		
6,900.00	6,355.21	5,450.00	5,450.00	47.84	94.20	124.60	-4,237.70	1,848.05	5,889.85	5,757.48	132.37	44.494		
7,000.00	6,443.82	5,450.00	5,450.00	48.74	94.20	124.60	-4,237.70	1,848.05	5,934.14	5,801.51	132.63	44.743		
7,100.00	6,532.43	5,450.00	5,450.00	49.63	94.20	124.60	-4,237.70	1,848.05	5,979.76	5,846.91	132.85	45.010		
7,200.00	6,621.04	5,450.00	5,450.00	50.53	94.20	124.60	-4,237.70	1,848.05	6,026.70	5,893.65	133.05	45.295		
7,300.00	6,709.65	5,450.00	5,450.00	51.42	94.20	124.60	-4,237.70	1,848.05	6,074.92	5,941.70	133.23	45.598		
7,400.00	6,798.26	5,450.00	5,450.00	52.32	94.20	124.60	-4,237.70	1,848.05	6,124.40	5,991.02	133.38	45.917		
7,500.00	6,886.87	5,450.00	5,450.00	53.22	94.20	124.60	-4,237.70	1,848.05	6,175.10	6,041.60	133.51	46.253		
7,600.00	6,975.48	5,450.00	5,450.00	54.12	94.20	124.60	-4,237.70	1,848.05	6,226.99	6,093.38	133.61	46.606		
7,656.30	7,025.36	5,450.00	5,450.00	54.62	94.20	124.60	-4,237.70	1,848.05	6,256.72	6,123.06	133.66	46.811		
7,700.00	7,064.54	5,450.00	5,450.00	55.00	94.20	117.67	-4,237.70	1,848.05	6,278.63	6,144.94	133.69	46.964		
7,750.00	7,110.29	5,450.00	5,450.00	55.40	94.20	107.83	-4,237.70	1,848.05	6,300.38	6,166.67	133.71	47.121		
7,800.00	7,156.67	5,450.00	5,450.00	55.75	94.20	96.09	-4,237.70	1,848.05	6,318.48	6,184.77	133.71	47.256		
7,850.00	7,203.34	5,450.00	5,450.00	56.05	94.20	83.25	-4,237.70	1,848.05	6,332.82	6,199.14	133.69	47.370		
7,900.00	7,249.95	5,450.00	5,450.00	56.30	94.20	70.63	-4,237.70	1,848.05	6,343.32	6,209.68	133.64	47.465		
7,950.00	7,296.14	5,450.00	5,450.00	56.50	94.20	59.41	-4,237.70	1,848.05	6,349.92	6,216.35	133.57	47.540		
8,000.00	7,341.56	5,450.00	5,450.00	56.64	94.20	50.13	-4,237.70	1,848.05	6,352.58	6,219.11	133.47	47.595		
8,050.00	7,385.86	5,450.00	5,450.00	56.74	94.20	42.73	-4,237.70	1,848.05	6,351.28	6,217.94	133.35	47.630		
8,100.00	7,428.71	5,450.00	5,450.00	56.79	94.20	36.91	-4,237.70	1,848.05	6,346.03	6,212.84	133.20	47.644		
8,150.00	7,469.77	5,450.00	5,450.00	56.80	94.20	32.32	-4,237.70	1,848.05	6,336.87	6,203.84	133.03	47.636		
8,200.00	7,508.75	5,450.00	5,450.00	56.77	94.20	28.66	-4,237.70	1,848.05	6,323.84	6,191.00	132.84	47.607		
8,250.00	7,545.33	5,450.00	5,450.00	56.70	94.20	25.70	-4,237.70	1,848.05	6,307.02	6,174.39	132.63	47.554		
8,300.00	7,579.25	5,450.00	5,450.00	56.59	94.20	23.26	-4,237.70	1,848.05	6,286.51	6,154.10	132.41	47.479		
8,350.00	7,610.24	5,450.00	5,450.00	56.45	94.20	21.23	-4,237.70	1,848.05	6,262.43	6,130.25	132.17	47.380		
8,400.00	7,638.06	5,450.00	5,450.00	56.28	94.20	19.49	-4,237.70	1,848.05	6,234.92	6,102.98	131.93	47.258		
8,450.00	7,662.52	5,450.00	5,450.00	56.09	94.20	17.97	-4,237.70	1,848.05	6,204.14	6,072.45	131.69	47.112		
8,500.00	7,683.41	5,450.00	5,450.00	55.88	94.20	16.59	-4,237.70	1,848.05	6,170.30	6,038.85	131.45	46.942		
8,550.00	7,700.59	5,450.00	5,450.00	55.64	94.20	15.29	-4,237.70	1,848.05	6,133.58	6,002.38	131.21	46.748		
8,600.00	7,713.91	5,450.00	5,450.00	55.39	94.20	13.99	-4,237.70	1,848.05	6,094.23	5,963.26	130.97	46.531		
8,650.00	7,723.29	5,450.00	5,450.00	55.14	94.20	12.58	-4,237.70	1,848.05	6,052.50	5,921.75	130.75	46.290		
8,700.00	7,728.64	5,450.00	5,450.00	54.87	94.20	10.91	-4,237.70	1,848.05	6,008.65	5,878.10	130.54	46.027		
8,740.83	7,730.00	5,450.00	5,450.00	54.65	94.20	9.16	-4,237.70	1,848.05	5,971.47	5,841.08	130.39	45.797		
8,800.00	7,730.00	5,450.00	5,450.00	54.33	94.20	9.16	-4,237.70	1,848.05	5,916.85	5,786.68	130.17	45.454		
8,900.00	7,730.00	5,450.00	5,450.00	53.82	94.20	9.16	-4,237.70	1,848.05	5,824.73	5,694.94	129.79	44.878		
9,000.00	7,730.00	5,450.00	5,450.00	53.33	94.20	9.16	-4,237.70	1,848.05	5,732.87	5,603.48	129.39	44.306		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,450.00	5,450.00	52.87	94.20	9.16	-4,237.70	1,848.05	5,641.29	5,512.31	128.98	43.737		
9,200.00	7,730.00	5,450.00	5,450.00	52.44	94.20	9.16	-4,237.70	1,848.05	5,550.00	5,421.44	128.56	43.171		
9,300.00	7,730.00	5,450.00	5,450.00	52.03	94.20	9.16	-4,237.70	1,848.05	5,459.02	5,330.90	128.12	42.608		
9,400.00	7,730.00	5,450.00	5,450.00	51.65	94.20	9.16	-4,237.70	1,848.05	5,368.36	5,240.69	127.67	42.050		
9,500.00	7,730.00	5,450.00	5,450.00	51.29	94.20	9.16	-4,237.70	1,848.05	5,278.03	5,150.84	127.19	41.496		
9,600.00	7,730.00	5,450.00	5,450.00	50.95	94.20	9.16	-4,237.70	1,848.05	5,188.06	5,061.36	126.71	40.946		
9,700.00	7,730.00	5,450.00	5,450.00	50.64	94.20	9.16	-4,237.70	1,848.05	5,098.46	4,972.27	126.20	40.400		
9,800.00	7,730.00	5,450.00	5,450.00	50.35	94.20	9.16	-4,237.70	1,848.05	5,009.26	4,883.59	125.67	39.859		
9,900.00	7,730.00	5,450.00	5,450.00	50.09	94.20	9.16	-4,237.70	1,848.05	4,920.47	4,795.35	125.13	39.324		
10,000.00	7,730.00	5,450.00	5,450.00	49.86	94.20	9.16	-4,237.70	1,848.05	4,832.12	4,707.56	124.56	38.793		
10,100.00	7,730.00	5,450.00	5,450.00	49.65	94.20	9.16	-4,237.70	1,848.05	4,744.24	4,620.26	123.97	38.268		
10,200.00	7,730.00	5,450.00	5,450.00	49.48	94.20	9.16	-4,237.70	1,848.05	4,656.84	4,533.48	123.36	37.750		
10,300.00	7,730.00	5,450.00	5,450.00	49.35	94.20	9.16	-4,237.70	1,848.05	4,569.96	4,447.23	122.73	37.237		
10,400.00	7,730.00	5,450.00	5,450.00	49.27	94.20	9.16	-4,237.70	1,848.05	4,483.62	4,361.56	122.07	36.731		
10,500.00	7,730.00	5,450.00	5,450.00	49.26	94.20	9.16	-4,237.70	1,848.05	4,397.87	4,276.49	121.38	36.233		
10,600.00	7,730.00	5,450.00	5,450.00	49.32	94.20	9.16	-4,237.70	1,848.05	4,312.72	4,192.06	120.66	35.741		
10,700.00	7,730.00	5,450.00	5,450.00	49.51	94.20	9.16	-4,237.70	1,848.05	4,228.23	4,108.31	119.92	35.258		
10,800.00	7,730.00	5,450.00	5,450.00	49.83	94.20	9.16	-4,237.70	1,848.05	4,144.43	4,025.28	119.15	34.783		
10,900.00	7,730.00	5,450.00	5,450.00	50.31	94.20	9.16	-4,237.70	1,848.05	4,061.36	3,943.02	118.35	34.318		
11,000.00	7,730.00	5,450.00	5,450.00	50.96	94.20	9.16	-4,237.70	1,848.05	3,979.07	3,861.56	117.51	33.861		
11,100.00	7,730.00	5,450.00	5,450.00	51.75	94.20	9.16	-4,237.70	1,848.05	3,897.61	3,780.97	116.64	33.415		
11,200.00	7,730.00	5,450.00	5,450.00	52.66	94.20	9.16	-4,237.70	1,848.05	3,817.03	3,701.30	115.74	32.980		
11,300.00	7,730.00	5,450.00	5,450.00	53.67	94.20	9.16	-4,237.70	1,848.05	3,737.39	3,622.59	114.80	32.556		
11,400.00	7,730.00	5,450.00	5,450.00	54.75	94.20	9.16	-4,237.70	1,848.05	3,658.75	3,544.93	113.82	32.144		
11,500.00	7,730.00	5,450.00	5,450.00	55.89	94.20	9.16	-4,237.70	1,848.05	3,581.18	3,468.37	112.81	31.745		
11,600.00	7,730.00	5,450.00	5,450.00	57.07	94.20	9.16	-4,237.70	1,848.05	3,504.74	3,392.98	111.76	31.360		
11,700.00	7,730.00	5,450.00	5,450.00	58.30	94.20	9.16	-4,237.70	1,848.05	3,429.51	3,318.84	110.67	30.989		
11,800.00	7,730.00	5,450.00	5,450.00	59.55	94.20	9.16	-4,237.70	1,848.05	3,355.58	3,246.04	109.53	30.635		
11,900.00	7,730.00	5,450.00	5,450.00	60.84	94.20	9.16	-4,237.70	1,848.05	3,283.03	3,174.67	108.36	30.297		
12,000.00	7,730.00	5,450.00	5,450.00	62.15	94.20	9.16	-4,237.70	1,848.05	3,211.95	3,104.80	107.15	29.977		
12,100.00	7,730.00	5,450.00	5,450.00	63.49	94.20	9.16	-4,237.70	1,848.05	3,142.45	3,036.56	105.89	29.676		
12,200.00	7,730.00	5,450.00	5,450.00	64.85	94.20	9.16	-4,237.70	1,848.05	3,074.63	2,970.04	104.59	29.396		
12,300.00	7,730.00	5,450.00	5,450.00	66.22	94.20	9.16	-4,237.70	1,848.05	3,008.61	2,905.35	103.25	29.139		
12,400.00	7,730.00	5,450.00	5,450.00	67.62	94.20	9.16	-4,237.70	1,848.05	2,944.50	2,842.63	101.87	28.905		
12,500.00	7,730.00	5,450.00	5,450.00	69.03	94.20	9.16	-4,237.70	1,848.05	2,882.44	2,781.99	100.45	28.697		
12,600.00	7,730.00	5,450.00	5,450.00	70.45	94.20	9.16	-4,237.70	1,848.05	2,822.55	2,723.57	98.98	28.516		
12,700.00	7,730.00	5,450.00	5,450.00	71.90	94.20	9.16	-4,237.70	1,848.05	2,764.99	2,667.51	97.48	28.365		
12,800.00	7,730.00	5,450.00	5,450.00	73.35	94.20	9.16	-4,237.70	1,848.05	2,709.89	2,613.95	95.94	28.246		
12,900.00	7,730.00	5,450.00	5,450.00	74.81	94.20	9.16	-4,237.70	1,848.05	2,657.42	2,563.06	94.36	28.161		
13,000.00	7,730.00	5,450.00	5,450.00	76.29	94.20	9.16	-4,237.70	1,848.05	2,607.73	2,514.97	92.76	28.113		
13,100.00	7,730.00	5,450.00	5,450.00	77.78	94.20	9.16	-4,237.70	1,848.05	2,560.98	2,469.85	91.13	28.102		
13,200.00	7,730.00	5,450.00	5,450.00	79.28	94.20	9.16	-4,237.70	1,848.05	2,517.33	2,427.85	89.49	28.131		
13,300.00	7,730.00	5,450.00	5,450.00	80.79	94.20	9.16	-4,237.70	1,848.05	2,476.96	2,389.12	87.84	28.199		
13,400.00	7,730.00	5,450.00	5,450.00	82.31	94.20	9.16	-4,237.70	1,848.05	2,440.02	2,353.81	86.20	28.305		
13,500.00	7,730.00	5,450.00	5,450.00	83.84	94.20	9.16	-4,237.70	1,848.05	2,406.67	2,322.06	84.61	28.445		
13,600.00	7,730.00	5,450.00	5,450.00	85.37	94.20	9.16	-4,237.70	1,848.05	2,377.06	2,293.98	83.08	28.611		
13,700.00	7,730.00	5,450.00	5,450.00	86.92	94.20	9.16	-4,237.70	1,848.05	2,351.33	2,269.66	81.67	28.790		
13,800.00	7,730.00	5,450.00	5,450.00	88.47	94.20	9.16	-4,237.70	1,848.05	2,329.62	2,249.17	80.45	28.959		
13,900.00	7,730.00	5,450.00	5,450.00	90.03	94.20	9.16	-4,237.70	1,848.05	2,312.03	2,232.54	79.49	29.087		
14,000.00	7,730.00	5,450.00	5,450.00	91.59	94.20	9.16	-4,237.70	1,848.05	2,298.66	2,219.77	78.89	29.136		
14,100.00	7,730.00	5,450.00	5,450.00	93.16	94.20	9.16	-4,237.70	1,848.05	2,289.59	2,210.80	78.79	29.060		
14,200.00	7,730.00	5,450.00	5,450.00	94.74	94.20	9.16	-4,237.70	1,848.05	2,284.85	2,205.58	79.28	28.821		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,258.20	7,730.00	5,450.00	5,450.00	95.66	94.20	9.16	-4,237.70	1,848.05	2,284.11	2,204.25	79.86	28.600 CC		
14,300.00	7,730.00	5,450.00	5,450.00	96.33	94.20	9.16	-4,237.70	1,848.05	2,284.50	2,204.07	80.43	28.405 ES		
14,400.00	7,730.00	5,450.00	5,450.00	97.92	94.20	9.16	-4,237.70	1,848.05	2,288.51	2,206.28	82.23	27.831		
14,500.00	7,730.00	5,450.00	5,450.00	99.51	94.20	9.16	-4,237.70	1,848.05	2,296.88	2,212.27	84.61	27.147		
14,600.00	7,730.00	5,450.00	5,450.00	101.11	94.20	9.16	-4,237.70	1,848.05	2,309.55	2,222.11	87.44	26.413		
14,700.00	7,730.00	5,450.00	5,450.00	102.72	94.20	9.16	-4,237.70	1,848.05	2,326.45	2,235.86	90.59	25.682		
14,800.00	7,730.00	5,450.00	5,450.00	104.33	94.20	9.16	-4,237.70	1,848.05	2,347.49	2,253.57	93.93	24.993		
14,900.00	7,730.00	5,450.00	5,450.00	105.94	94.20	9.16	-4,237.70	1,848.05	2,372.57	2,275.22	97.35	24.371		
15,000.00	7,730.00	5,450.00	5,450.00	107.56	94.20	9.16	-4,237.70	1,848.05	2,401.55	2,300.77	100.78	23.829		
15,100.00	7,730.00	5,450.00	5,450.00	109.18	94.20	9.16	-4,237.70	1,848.05	2,434.30	2,330.13	104.16	23.370		
15,200.00	7,730.00	5,450.00	5,450.00	110.81	94.20	9.16	-4,237.70	1,848.05	2,470.66	2,363.21	107.45	22.993		
15,300.00	7,730.00	5,450.00	5,450.00	112.44	94.20	9.16	-4,237.70	1,848.05	2,510.48	2,399.87	110.61	22.696		
15,400.00	7,730.00	5,450.00	5,450.00	114.08	94.20	9.16	-4,237.70	1,848.05	2,553.60	2,439.97	113.63	22.472		
15,500.00	7,730.00	5,450.00	5,450.00	115.72	94.20	9.16	-4,237.70	1,848.05	2,599.86	2,483.36	116.50	22.317		
15,600.00	7,730.00	5,450.00	5,450.00	117.36	94.20	9.16	-4,237.70	1,848.05	2,649.08	2,529.88	119.20	22.224		
15,700.00	7,730.00	5,450.00	5,450.00	119.00	94.20	9.16	-4,237.70	1,848.05	2,701.11	2,579.37	121.73	22.189 SF		
15,800.00	7,730.00	5,450.00	5,450.00	120.65	94.20	9.16	-4,237.70	1,848.05	2,755.78	2,631.68	124.10	22.205		
15,900.00	7,730.00	5,450.00	5,450.00	122.30	94.20	9.16	-4,237.70	1,848.05	2,812.95	2,686.63	126.32	22.269		
16,000.00	7,730.00	5,450.00	5,450.00	123.96	94.20	9.16	-4,237.70	1,848.05	2,872.46	2,744.09	128.38	22.375		
16,100.00	7,730.00	5,450.00	5,450.00	125.61	94.20	9.16	-4,237.70	1,848.05	2,934.18	2,803.89	130.29	22.521		
16,200.00	7,730.00	5,450.00	5,450.00	127.27	94.20	9.16	-4,237.70	1,848.05	2,997.96	2,865.90	132.06	22.701		
16,300.00	7,730.00	5,450.00	5,450.00	128.94	94.20	9.16	-4,237.70	1,848.05	3,063.68	2,929.97	133.71	22.914		
16,400.00	7,730.00	5,450.00	5,450.00	130.60	94.20	9.16	-4,237.70	1,848.05	3,131.21	2,995.99	135.22	23.156		
16,500.00	7,730.00	5,450.00	5,450.00	132.27	94.20	9.16	-4,237.70	1,848.05	3,200.45	3,063.82	136.63	23.424		
16,600.00	7,730.00	5,450.00	5,450.00	133.94	94.20	9.16	-4,237.70	1,848.05	3,271.27	3,133.34	137.93	23.717		
16,700.00	7,730.00	5,450.00	5,450.00	135.61	94.20	9.16	-4,237.70	1,848.05	3,343.59	3,204.46	139.13	24.033		
16,800.00	7,730.00	5,450.00	5,450.00	137.28	94.20	9.16	-4,237.70	1,848.05	3,417.30	3,277.07	140.23	24.369		
16,900.00	7,730.00	5,450.00	5,450.00	138.96	94.20	9.16	-4,237.70	1,848.05	3,492.32	3,351.06	141.26	24.723		
17,000.00	7,730.00	5,450.00	5,450.00	140.64	94.20	9.16	-4,237.70	1,848.05	3,568.57	3,426.36	142.20	25.095		
17,100.00	7,730.00	5,450.00	5,450.00	142.32	94.20	9.16	-4,237.70	1,848.05	3,645.96	3,502.88	143.07	25.483		
17,200.00	7,730.00	5,450.00	5,450.00	144.00	94.20	9.16	-4,237.70	1,848.05	3,724.43	3,580.55	143.88	25.885		
17,300.00	7,730.00	5,450.00	5,450.00	145.69	94.20	9.16	-4,237.70	1,848.05	3,803.91	3,659.28	144.63	26.301		
17,400.00	7,730.00	5,450.00	5,450.00	147.37	94.20	9.16	-4,237.70	1,848.05	3,884.34	3,739.02	145.32	26.730		
17,500.00	7,730.00	5,450.00	5,450.00	149.06	94.20	9.16	-4,237.70	1,848.05	3,965.66	3,819.70	145.96	27.170		
17,600.00	7,730.00	5,450.00	5,450.00	150.75	94.20	9.16	-4,237.70	1,848.05	4,047.82	3,901.27	146.55	27.621		
17,700.00	7,730.00	5,450.00	5,450.00	152.44	94.20	9.16	-4,237.70	1,848.05	4,130.76	3,983.66	147.10	28.082		
17,800.00	7,730.00	5,450.00	5,450.00	154.13	94.20	9.16	-4,237.70	1,848.05	4,214.44	4,066.84	147.61	28.552		
17,900.00	7,730.00	5,450.00	5,450.00	155.83	94.20	9.16	-4,237.70	1,848.05	4,298.83	4,150.75	148.08	29.031		
18,000.00	7,730.00	5,450.00	5,450.00	157.52	94.20	9.16	-4,237.70	1,848.05	4,383.86	4,235.35	148.52	29.518		
18,100.00	7,730.00	5,450.00	5,450.00	159.22	94.20	9.16	-4,237.70	1,848.05	4,469.52	4,320.60	148.92	30.012		
18,200.00	7,730.00	5,450.00	5,450.00	160.92	94.20	9.16	-4,237.70	1,848.05	4,555.76	4,406.46	149.30	30.513		
18,300.00	7,730.00	5,450.00	5,450.00	162.62	94.20	9.16	-4,237.70	1,848.05	4,642.56	4,492.90	149.66	31.021		
18,400.00	7,730.00	5,450.00	5,450.00	164.32	94.20	9.16	-4,237.70	1,848.05	4,729.87	4,579.89	149.99	31.535		
18,426.22	7,730.00	5,450.00	5,450.00	164.76	94.20	9.16	-4,237.70	1,848.05	4,752.85	4,602.78	150.07	31.671		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	154.54	-4,569.17	2,175.74	5,060.76					
100.00	100.00	71.34	71.34	0.13	0.11	154.54	-4,569.39	2,175.62	5,060.94	5,060.69	0.25	N/A		
200.00	200.00	166.53	166.53	0.49	0.40	154.55	-4,570.15	2,175.18	5,061.46	5,060.57	0.89	5,676.120		
300.00	300.00	285.81	285.80	0.85	0.83	154.56	-4,570.86	2,174.67	5,061.81	5,060.14	1.68	3,017.447		
400.00	400.00	381.15	381.14	1.21	1.17	154.56	-4,571.05	2,174.55	5,061.95	5,059.57	2.38	2,130.714		
500.00	500.00	482.93	482.92	1.57	1.53	154.56	-4,571.30	2,174.56	5,062.17	5,059.07	3.10	1,634.671		
600.00	600.00	613.73	613.72	1.93	1.99	154.57	-4,571.53	2,173.90	5,062.14	5,058.22	3.92	1,291.933		
700.00	700.00	780.02	779.99	2.29	2.57	154.58	-4,570.14	2,171.93	5,060.75	5,055.90	4.85	1,043.307		
800.00	800.00	874.51	874.46	2.64	2.89	154.59	-4,568.84	2,170.87	5,059.03	5,053.49	5.54	913.966		
900.00	900.00	975.00	974.94	3.00	3.24	154.59	-4,567.51	2,169.90	5,057.42	5,051.18	6.24	810.153		
1,000.00	1,000.00	1,111.84	1,111.75	3.36	3.72	154.59	-4,565.21	2,168.52	5,055.49	5,048.42	7.08	714.265		
1,100.00	1,100.00	1,181.62	1,181.52	3.72	3.96	154.59	-4,564.04	2,167.78	5,053.48	5,045.80	7.68	657.832		
1,200.00	1,200.00	1,274.37	1,274.26	4.08	4.29	154.60	-4,562.74	2,166.94	5,051.83	5,043.46	8.37	603.789		
1,300.00	1,299.98	1,363.14	1,363.02	4.43	4.60	107.51	-4,561.55	2,166.25	5,050.81	5,041.77	9.04	558.945		
1,326.57	1,326.53	1,385.82	1,385.70	4.53	4.68	107.52	-4,561.30	2,166.03	5,050.76	5,041.55	9.21	548.352		
1,400.00	1,399.84	1,446.40	1,446.27	4.79	4.90	107.56	-4,560.78	2,165.43	5,051.14	5,041.45	9.69	521.457		
1,500.00	1,499.45	1,531.78	1,531.64	5.15	5.20	107.61	-4,560.26	2,164.71	5,052.86	5,042.51	10.35	488.232		
1,600.00	1,598.70	1,628.58	1,628.44	5.51	5.55	107.69	-4,559.83	2,163.95	5,055.84	5,044.78	11.06	457.126		
1,700.00	1,697.47	1,726.74	1,726.59	5.89	5.90	107.78	-4,559.37	2,163.07	5,059.85	5,048.06	11.79	429.286		
1,800.00	1,795.62	1,806.07	1,805.92	6.28	6.18	107.85	-4,559.21	2,162.40	5,065.24	5,052.78	12.46	406.487		
1,900.00	1,893.06	1,905.18	1,905.03	6.69	6.54	107.97	-4,559.26	2,161.38	5,071.94	5,058.71	13.23	383.494		
2,000.00	1,989.64	2,001.00	2,000.84	7.13	6.88	108.10	-4,559.36	2,160.29	5,079.81	5,065.81	14.00	362.771		
2,100.00	2,085.27	2,116.37	2,116.20	7.61	7.29	108.31	-4,559.27	2,158.77	5,088.69	5,073.81	14.88	341.988		
2,200.00	2,179.82	2,208.68	2,208.50	8.12	7.62	108.45	-4,559.04	2,157.60	5,098.72	5,083.01	15.71	324.604		
2,300.00	2,273.17	2,312.78	2,312.59	8.67	8.00	108.65	-4,558.70	2,156.23	5,109.97	5,093.35	16.61	307.552		
2,400.00	2,365.21	2,397.49	2,397.29	9.27	8.30	108.77	-4,558.43	2,155.06	5,122.57	5,105.08	17.49	292.829		
2,500.00	2,455.84	2,498.65	2,498.44	9.92	8.66	108.97	-4,557.95	2,153.88	5,136.53	5,118.06	18.47	278.037		
2,580.62	2,527.80	2,575.98	2,575.77	10.49	8.94	109.11	-4,557.40	2,153.10	5,148.74	5,129.45	19.28	267.017		
2,600.00	2,544.97	2,594.42	2,594.21	10.63	9.00	109.20	-4,557.26	2,152.91	5,151.78	5,132.30	19.48	264.465		
2,700.00	2,633.58	2,717.15	2,716.92	11.37	9.44	109.82	-4,555.99	2,151.35	5,167.42	5,146.81	20.61	250.702		
2,800.00	2,722.19	2,785.72	2,785.48	12.13	9.69	110.16	-4,555.51	2,150.31	5,183.37	5,161.80	21.57	240.352		
2,900.00	2,810.80	2,869.75	2,869.49	12.91	9.99	110.58	-4,554.70	2,148.78	5,199.84	5,177.25	22.59	230.196		
3,000.00	2,899.41	2,952.58	2,952.30	13.71	10.29	111.00	-4,554.31	2,146.85	5,216.75	5,193.13	23.62	220.885		
3,100.00	2,988.02	3,031.98	3,031.68	14.52	10.57	111.40	-4,554.05	2,145.01	5,234.15	5,209.50	24.64	212.417		
3,200.00	3,076.63	3,112.50	3,112.18	15.34	10.86	111.80	-4,553.92	2,143.23	5,252.09	5,226.42	25.67	204.571		
3,300.00	3,165.24	3,215.61	3,215.26	16.16	11.23	112.31	-4,553.62	2,140.89	5,270.27	5,243.48	26.79	196.696		
3,400.00	3,253.85	3,294.57	3,294.21	17.00	11.52	112.70	-4,553.31	2,139.25	5,288.81	5,260.98	27.83	190.056		
3,500.00	3,342.46	3,379.46	3,379.08	17.84	11.82	113.11	-4,553.07	2,137.57	5,307.81	5,278.92	28.88	183.758		
3,600.00	3,431.07	3,456.82	3,456.42	18.69	12.10	113.49	-4,552.97	2,135.92	5,327.26	5,297.34	29.91	178.087		
3,700.00	3,519.68	3,539.27	3,538.85	19.55	12.39	113.89	-4,553.00	2,134.31	5,347.25	5,316.28	30.96	172.706		
3,800.00	3,608.29	3,628.57	3,628.14	20.40	12.72	114.32	-4,552.97	2,132.70	5,367.56	5,335.53	32.03	167.557		
3,900.00	3,696.90	3,713.43	3,712.99	21.26	13.02	114.72	-4,553.02	2,131.08	5,388.27	5,355.18	33.09	162.843		
4,000.00	3,785.51	3,813.94	3,813.48	22.13	13.38	115.20	-4,552.99	2,129.08	5,409.22	5,375.02	34.20	158.160		
4,100.00	3,874.12	3,894.94	3,894.46	23.00	13.67	115.58	-4,552.93	2,127.54	5,430.49	5,395.25	35.24	154.113		
4,200.00	3,962.73	3,976.84	3,976.35	23.87	13.97	115.96	-4,552.91	2,126.07	5,452.17	5,415.90	36.27	150.305		
4,300.00	4,051.34	4,084.13	4,083.62	24.74	14.35	116.46	-4,552.80	2,124.27	5,474.13	5,436.73	37.41	146.347		
4,400.00	4,139.95	4,191.40	4,190.88	25.62	14.74	116.95	-4,552.12	2,122.90	5,496.04	5,457.50	38.53	142.633		
4,500.00	4,228.56	4,295.54	4,295.01	26.49	15.10	117.41	-4,550.97	2,122.30	5,517.98	5,478.34	39.64	139.198		
4,600.00	4,317.17	4,367.70	4,367.16	27.37	15.35	117.72	-4,550.09	2,122.18	5,540.21	5,499.59	40.62	136.382		
4,700.00	4,405.78	4,442.12	4,441.59	28.25	15.61	118.04	-4,549.42	2,122.13	5,563.01	5,521.40	41.61	133.695		
4,800.00	4,494.39	4,522.80	4,522.26	29.13	15.90	118.39	-4,548.89	2,121.95	5,586.27	5,543.66	42.62	131.078		
4,900.00	4,583.00	4,620.70	4,620.16	30.02	16.25	118.82	-4,548.35	2,121.32	5,609.85	5,566.16	43.69	128.394		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,766.41	4,765.84	30.90	16.77	119.45	-4,546.83	2,119.13	5,633.14	5,588.19	44.95	125.324		
5,100.00	4,760.22	4,876.72	4,876.12	31.79	17.16	119.93	-4,544.89	2,117.14	5,656.03	5,609.97	46.06	122.788		
5,200.00	4,848.83	4,964.12	4,963.49	32.67	17.48	120.31	-4,543.22	2,115.56	5,679.09	5,632.01	47.09	120.610		
5,300.00	4,937.44	5,042.18	5,041.52	33.56	17.75	120.64	-4,541.81	2,114.14	5,702.53	5,654.46	48.07	118.631		
5,400.00	5,026.05	5,116.89	5,116.20	34.45	18.02	120.96	-4,540.67	2,112.68	5,726.47	5,677.43	49.04	116.782		
5,500.00	5,114.66	5,195.19	5,194.48	35.34	18.30	121.29	-4,539.65	2,111.00	5,750.86	5,700.85	50.01	114.993		
5,600.00	5,203.27	5,282.72	5,281.99	36.23	18.62	121.67	-4,538.61	2,109.06	5,775.62	5,724.60	51.02	113.208		
5,700.00	5,291.88	5,387.00	5,386.23	37.12	18.99	122.10	-4,537.24	2,106.78	5,800.56	5,748.47	52.09	111.365		
5,800.00	5,380.50	5,479.47	5,478.67	38.01	19.33	122.49	-4,535.85	2,104.66	5,825.58	5,772.48	53.10	109.702		
5,900.00	5,469.11	5,557.73	5,556.90	38.90	19.61	122.82	-4,534.69	2,102.92	5,850.91	5,796.85	54.06	108.228		
6,000.00	5,557.72	5,636.43	5,635.58	39.79	19.89	123.14	-4,533.65	2,101.53	5,876.68	5,821.67	55.02	106.818		
6,100.00	5,646.33	5,715.75	5,714.89	40.68	20.17	123.46	-4,532.67	2,100.23	5,902.82	5,846.85	55.97	105.467		
6,200.00	5,734.94	5,781.40	5,780.52	41.58	20.41	123.72	-4,532.04	2,099.35	5,929.47	5,872.61	56.86	104.280		
6,300.00	5,823.55	5,870.46	5,869.57	42.47	20.73	124.07	-4,531.38	2,098.41	5,956.58	5,898.73	57.84	102.975		
6,400.00	5,912.16	6,032.36	6,031.45	43.36	21.31	124.71	-4,529.25	2,096.27	5,983.47	5,924.35	59.12	101.216		
6,500.00	6,000.77	6,144.96	6,144.01	44.26	21.71	125.14	-4,526.52	2,095.28	6,009.54	5,949.36	60.18	99.855		
6,600.00	6,089.38	6,213.74	6,212.76	45.15	21.95	125.40	-4,525.01	2,093.87	6,036.01	5,974.94	61.07	98.836		
6,700.00	6,177.99	6,276.33	6,275.32	46.05	22.18	125.65	-4,523.89	2,092.47	6,063.06	6,001.13	61.93	97.901		
6,800.00	6,266.60	6,333.23	6,332.21	46.94	22.38	125.87	-4,523.12	2,091.30	6,090.75	6,027.99	62.76	97.047		
6,900.00	6,355.21	6,400.00	6,442.17	47.84	24.41	126.29	-4,522.05	2,088.74	6,119.05	6,053.62	65.43	93.521		
7,000.00	6,443.82	6,562.86	6,561.76	48.74	23.20	126.74	-4,519.78	2,087.37	6,146.72	6,081.84	64.88	94.745		
7,100.00	6,532.43	6,747.73	6,746.56	49.63	23.85	127.39	-4,514.77	2,087.86	6,174.11	6,107.91	66.20	93.261		
7,200.00	6,621.04	6,800.00	6,798.79	50.53	24.03	127.57	-4,512.83	2,088.27	6,200.85	6,133.85	67.00	92.548		
7,300.00	6,709.65	6,854.67	6,853.43	51.42	24.21	127.76	-4,511.13	2,088.74	6,228.30	6,160.50	67.80	91.860		
7,400.00	6,798.26	6,900.00	6,898.75	52.32	24.37	127.92	-4,510.25	2,089.15	6,256.80	6,188.24	68.56	91.263		
7,500.00	6,886.87	7,025.28	7,024.00	53.22	24.81	128.36	-4,507.73	2,088.37	6,285.46	6,215.82	69.63	90.263		
7,600.00	6,975.48	7,087.04	7,085.74	54.12	25.03	128.57	-4,506.45	2,088.19	6,314.26	6,243.81	70.45	89.626		
7,656.30	7,025.36	7,121.48	7,120.18	54.62	25.15	128.69	-4,505.84	2,088.45	6,330.73	6,259.82	70.91	89.282		
7,700.00	7,064.54	7,148.19	7,146.88	55.00	25.24	121.65	-4,505.43	2,088.59	6,342.03	6,270.78	71.26	89.000		
7,750.00	7,110.29	7,179.21	7,177.90	55.40	25.35	111.72	-4,505.02	2,088.64	6,351.13	6,279.47	71.66	88.629		
7,800.00	7,156.67	7,213.47	7,212.15	55.75	25.47	99.94	-4,504.66	2,088.58	6,356.06	6,284.00	72.07	88.196		
7,850.00	7,203.34	7,253.61	7,252.30	56.05	25.61	87.12	-4,504.28	2,088.33	6,356.75	6,284.27	72.49	87.692		
7,900.00	7,249.95	7,293.52	7,292.20	56.30	25.75	74.55	-4,503.95	2,087.89	6,353.19	6,280.29	72.89	87.157		
7,950.00	7,296.14	7,355.11	7,353.78	56.50	25.97	63.49	-4,503.40	2,087.05	6,345.32	6,271.95	73.37	86.481		
8,000.00	7,341.56	7,419.85	7,418.51	56.64	26.21	54.41	-4,502.63	2,086.22	6,333.09	6,259.25	73.84	85.763		
8,050.00	7,385.86	7,468.18	7,466.84	56.74	26.38	47.20	-4,501.98	2,085.41	6,316.67	6,242.44	74.23	85.101		
8,100.00	7,428.71	7,518.01	7,516.64	56.79	26.56	41.61	-4,501.25	2,084.40	6,296.19	6,221.59	74.59	84.408		
8,150.00	7,469.77	7,528.14	7,526.77	56.80	26.59	37.15	-4,501.16	2,084.27	6,271.97	6,197.20	74.77	83.881		
8,200.00	7,508.75	7,547.64	7,546.28	56.77	26.66	33.71	-4,500.99	2,084.00	6,244.18	6,169.21	74.97	83.285		
8,250.00	7,545.33	7,566.08	7,564.71	56.70	26.73	31.02	-4,500.88	2,083.80	6,213.02	6,137.87	75.15	82.672		
8,300.00	7,579.25	7,600.00	7,598.63	56.59	26.85	29.00	-4,500.82	2,083.61	6,178.74	6,103.36	75.38	81.965		
8,350.00	7,610.24	7,600.00	7,598.63	56.45	26.85	27.31	-4,500.82	2,083.61	6,141.44	6,065.99	75.45	81.397		
8,400.00	7,638.06	7,678.44	7,677.07	56.28	27.13	26.49	-4,500.54	2,083.29	6,101.37	6,025.52	75.85	80.444		
8,450.00	7,662.52	7,700.00	7,698.61	56.09	27.55	26.54	-4,498.53	2,083.58	6,058.46	5,982.06	76.41	79.293		
8,500.00	7,683.41	7,700.00	7,798.61	55.88	27.55	26.22	-4,498.53	2,083.58	6,013.46	5,937.01	76.44	78.666		
8,550.00	7,700.59	7,700.00	7,798.61	55.64	27.55	26.42	-4,498.53	2,083.58	5,966.79	5,890.32	76.47	78.027		
8,600.00	7,713.91	7,700.00	7,798.61	55.39	27.55	27.47	-4,498.53	2,083.58	5,918.78	5,842.29	76.49	77.380		
8,650.00	7,723.29	7,700.00	7,798.61	55.14	27.55	30.44	-4,498.53	2,083.58	5,869.76	5,793.26	76.50	76.726		
8,700.00	7,728.64	7,700.00	7,798.61	54.87	27.55	41.65	-4,498.53	2,083.58	5,820.09	5,743.58	76.51	76.067		
8,740.83	7,730.00	7,700.00	7,798.61	54.65	27.55	121.08	-4,498.53	2,083.58	5,779.30	5,702.79	76.52	75.528		
8,800.00	7,730.00	7,700.00	7,798.61	54.33	27.55	121.08	-4,498.53	2,083.58	5,720.15	5,643.63	76.53	74.747		
8,900.00	7,730.00	7,700.00	7,798.61	53.82	27.55	121.08	-4,498.53	2,083.58	5,620.19	5,543.65	76.54	73.427		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,800.00	7,798.61	53.33	27.55	121.08	-4,498.53	2,083.58	5,520.22	5,443.67	76.56	72.107		
9,100.00	7,730.00	7,800.00	7,798.61	52.87	27.55	121.08	-4,498.53	2,083.58	5,420.26	5,343.69	76.57	70.786		
9,200.00	7,730.00	7,800.00	7,798.61	52.44	27.55	121.08	-4,498.53	2,083.58	5,320.30	5,243.71	76.59	69.464		
9,300.00	7,730.00	7,800.00	7,798.61	52.03	27.55	121.08	-4,498.53	2,083.58	5,220.34	5,143.73	76.61	68.141		
9,400.00	7,730.00	7,800.00	7,798.61	51.65	27.55	121.08	-4,498.53	2,083.58	5,120.38	5,043.75	76.63	66.818		
9,500.00	7,730.00	7,800.00	7,798.61	51.29	27.55	121.08	-4,498.53	2,083.58	5,020.42	4,943.77	76.65	65.494		
9,600.00	7,730.00	7,800.00	7,798.61	50.95	27.55	121.08	-4,498.53	2,083.58	4,920.47	4,843.79	76.68	64.170		
9,700.00	7,730.00	7,800.00	7,798.61	50.64	27.55	121.08	-4,498.53	2,083.58	4,820.51	4,743.81	76.70	62.845		
9,800.00	7,730.00	9,800.00	7,808.24	50.35	34.55	124.16	-4,498.36	2,083.62	4,720.55	4,636.81	83.74	56.368		
9,900.00	7,730.00	9,900.00	7,806.42	50.09	34.90	123.60	-4,498.39	2,083.61	4,620.61	4,536.48	84.12	54.928		
10,000.00	7,730.00	10,000.00	7,804.61	49.86	35.25	123.02	-4,498.42	2,083.60	4,520.66	4,436.16	84.50	53.498		
10,100.00	7,730.00	10,100.00	7,802.79	49.65	35.60	122.44	-4,498.46	2,083.60	4,420.72	4,335.84	84.88	52.081		
10,200.00	7,730.00	10,200.00	7,800.97	49.48	35.95	121.85	-4,498.49	2,083.59	4,320.78	4,235.51	85.26	50.675		
10,300.00	7,730.00	10,300.00	7,799.16	49.35	36.30	121.26	-4,498.52	2,083.58	4,220.84	4,135.19	85.65	49.281		
10,400.00	7,730.00	10,400.00	7,797.34	49.27	36.65	120.65	-4,498.56	2,083.57	4,120.90	4,034.87	86.03	47.898		
10,500.00	7,730.00	10,500.00	7,795.52	49.26	37.00	120.04	-4,498.59	2,083.57	4,020.97	3,934.54	86.42	46.527		
10,600.00	7,730.00	10,600.00	7,793.71	49.32	37.35	119.43	-4,498.62	2,083.56	3,921.04	3,834.22	86.81	45.166		
10,700.00	7,730.00	10,700.00	7,791.89	49.51	37.70	118.80	-4,498.66	2,083.55	3,821.11	3,733.90	87.21	43.817		
10,800.00	7,730.00	10,800.00	7,790.07	49.83	38.05	118.16	-4,498.69	2,083.54	3,721.18	3,633.58	87.60	42.478		
10,900.00	7,730.00	10,900.00	7,788.26	50.31	38.40	117.52	-4,498.72	2,083.54	3,621.26	3,533.26	88.00	41.150		
11,000.00	7,730.00	11,000.00	7,786.44	50.96	38.75	116.87	-4,498.75	2,083.53	3,521.34	3,432.93	88.40	39.833		
11,100.00	7,730.00	11,100.00	7,784.62	51.75	39.10	116.22	-4,498.79	2,083.52	3,421.42	3,332.61	88.81	38.527		
11,200.00	7,730.00	11,200.00	7,782.81	52.66	39.45	115.55	-4,498.82	2,083.51	3,321.51	3,232.29	89.21	37.231		
11,300.00	7,730.00	7,820.63	7,819.23	53.67	27.63	127.48	-4,497.96	2,083.91	3,221.62	3,144.05	77.57	41.531		
11,400.00	7,730.00	7,814.41	7,813.01	54.75	27.60	125.65	-4,498.14	2,083.80	3,121.74	3,044.13	77.61	40.224		
11,500.00	7,730.00	7,808.61	7,807.21	55.89	27.58	123.86	-4,498.30	2,083.71	3,021.87	2,944.22	77.65	38.917		
11,600.00	7,730.00	7,803.16	7,801.77	57.07	27.56	122.12	-4,498.45	2,083.62	2,922.00	2,844.30	77.70	37.607		
11,700.00	7,730.00	7,798.06	7,796.67	58.30	27.55	120.43	-4,498.58	2,083.55	2,822.13	2,744.38	77.75	36.297		
11,800.00	7,730.00	7,793.25	7,791.86	59.55	27.53	118.78	-4,498.71	2,083.49	2,722.27	2,644.46	77.81	34.985		
11,900.00	7,730.00	7,788.73	7,787.34	60.84	27.51	117.18	-4,498.82	2,083.43	2,622.42	2,544.54	77.88	33.672		
12,000.00	7,730.00	7,784.46	7,783.07	62.15	27.50	115.63	-4,498.92	2,083.38	2,522.57	2,444.61	77.96	32.358		
12,100.00	7,730.00	7,780.42	7,779.03	63.49	27.49	114.13	-4,499.01	2,083.34	2,422.73	2,344.69	78.04	31.044		
12,200.00	7,730.00	7,776.59	7,775.21	64.85	27.47	112.67	-4,499.10	2,083.30	2,322.90	2,244.77	78.14	29.728		
12,300.00	7,730.00	7,772.97	7,771.59	66.22	27.46	111.26	-4,499.18	2,083.27	2,223.09	2,144.84	78.24	28.413		
12,400.00	7,730.00	7,769.53	7,768.15	67.62	27.45	109.90	-4,499.26	2,083.24	2,123.28	2,044.92	78.36	27.096		
12,500.00	7,730.00	7,766.25	7,764.87	69.03	27.44	108.59	-4,499.32	2,083.22	2,023.50	1,945.00	78.49	25.780		
12,600.00	7,730.00	7,763.14	7,761.76	70.45	27.42	107.32	-4,499.39	2,083.20	1,923.73	1,845.09	78.64	24.463		
12,700.00	7,730.00	7,760.17	7,758.79	71.90	27.41	106.09	-4,499.45	2,083.18	1,823.98	1,745.18	78.80	23.146		
12,800.00	7,730.00	7,757.34	7,755.96	73.35	27.40	104.91	-4,499.50	2,083.16	1,724.26	1,645.27	78.99	21.829		
12,900.00	7,730.00	7,754.63	7,753.25	74.81	27.39	103.77	-4,499.56	2,083.15	1,624.57	1,545.37	79.20	20.512		
13,000.00	7,730.00	7,752.04	7,750.67	76.29	27.39	102.67	-4,499.60	2,083.14	1,524.91	1,445.47	79.44	19.195		
13,100.00	7,730.00	7,749.57	7,748.19	77.78	27.38	101.60	-4,499.65	2,083.12	1,425.31	1,345.59	79.72	17.879		
13,200.00	7,730.00	7,747.20	7,745.82	79.28	27.37	100.58	-4,499.69	2,083.12	1,325.75	1,245.71	80.04	16.563		
13,300.00	7,730.00	7,744.92	7,743.54	80.79	27.36	99.59	-4,499.73	2,083.11	1,226.27	1,145.85	80.42	15.248		
13,400.00	7,730.00	7,742.74	7,741.36	82.31	27.35	98.63	-4,499.77	2,083.10	1,126.88	1,046.01	80.87	13.934		
13,500.00	7,730.00	7,740.64	7,739.27	83.84	27.35	97.71	-4,499.80	2,083.10	1,027.60	946.18	81.42	12.621		
13,600.00	7,730.00	7,738.63	7,737.25	85.37	27.34	96.82	-4,499.84	2,083.09	928.47	846.38	82.09	11.311		
13,700.00	7,730.00	7,736.69	7,735.31	86.92	27.33	95.96	-4,499.87	2,083.09	829.54	746.61	82.93	10.003		
13,800.00	7,730.00	7,734.82	7,733.45	88.47	27.33	95.13	-4,499.90	2,083.09	730.91	646.89	84.02	8.699		
13,900.00	7,730.00	7,733.02	7,731.65	90.03	27.32	94.32	-4,499.93	2,083.09	632.70	547.22	85.48	7.402		
14,000.00	7,730.00	7,731.29	7,729.92	91.59	27.31	93.55	-4,499.95	2,083.09	535.14	447.63	87.51	6.115		
14,100.00	7,730.00	7,729.62	7,728.24	93.16	27.31	92.80	-4,499.98	2,083.09	438.69	348.19	90.50	4.847		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,728.01	7,726.63	94.74	27.30	92.08	-4,500.00	2,083.09	344.25	249.06	95.19	3.616		
14,300.00	7,730.00	7,726.45	7,725.07	96.33	27.30	91.38	-4,500.02	2,083.09	254.10	150.98	103.12	2.464		
14,400.00	7,730.00	7,724.94	7,723.57	97.92	27.29	90.70	-4,500.05	2,083.09	174.99	58.52	116.47	1.502		
14,500.00	7,730.00	7,723.48	7,722.11	99.51	27.29	90.05	-4,500.07	2,083.09	129.12	2.86	126.26	1.023 Level 2, ES, SF		
14,519.77	7,730.00	7,723.20	7,721.83	99.83	27.29	89.92	-4,500.07	2,083.09	127.59	3.34	124.25	1.027 Level 2, CC		
14,600.00	7,730.00	7,722.07	7,720.70	101.11	27.28	89.42	-4,500.09	2,083.09	150.72	47.58	103.13	1.461 Level 3		
14,700.00	7,730.00	7,720.71	7,719.34	102.72	27.28	88.80	-4,500.10	2,083.09	220.81	138.84	81.97	2.694		
14,800.00	7,730.00	7,719.39	7,718.01	104.33	27.27	88.21	-4,500.12	2,083.10	307.89	233.68	74.21	4.149		
14,900.00	7,730.00	7,718.11	7,716.73	105.94	27.27	87.64	-4,500.14	2,083.10	401.04	329.17	71.86	5.581		
15,000.00	7,730.00	7,716.87	7,715.49	107.56	27.26	87.08	-4,500.15	2,083.10	496.85	425.54	71.32	6.967		
15,100.00	7,730.00	7,715.66	7,714.29	109.18	27.26	86.54	-4,500.17	2,083.11	594.05	522.68	71.37	8.324		
15,200.00	7,730.00	7,714.49	7,713.12	110.81	27.25	86.02	-4,500.18	2,083.11	692.04	620.42	71.62	9.662		
15,300.00	7,730.00	7,713.36	7,711.99	112.44	27.25	85.51	-4,500.20	2,083.11	790.53	718.60	71.93	10.990		
15,400.00	7,730.00	7,712.26	7,710.88	114.08	27.25	85.02	-4,500.21	2,083.12	889.36	817.12	72.24	12.311		
15,500.00	7,730.00	7,711.19	7,709.81	115.72	27.24	84.54	-4,500.23	2,083.12	988.42	915.89	72.53	13.627		
15,600.00	7,730.00	7,710.15	7,708.77	117.36	27.24	84.08	-4,500.24	2,083.12	1,087.65	1,014.85	72.80	14.939		
15,700.00	7,730.00	7,709.13	7,707.76	119.00	27.24	83.63	-4,500.25	2,083.13	1,187.01	1,113.96	73.05	16.249		
15,800.00	7,730.00	7,708.15	7,706.78	120.65	27.23	83.19	-4,500.26	2,083.13	1,286.47	1,213.19	73.28	17.556		
15,900.00	7,730.00	7,707.19	7,705.82	122.30	27.23	82.77	-4,500.27	2,083.14	1,386.01	1,312.52	73.48	18.861		
16,000.00	7,730.00	7,706.26	7,704.89	123.96	27.23	82.36	-4,500.28	2,083.14	1,485.61	1,411.93	73.67	20.165		
16,100.00	7,730.00	7,705.35	7,703.98	125.61	27.22	81.96	-4,500.29	2,083.14	1,585.25	1,511.40	73.85	21.466		
16,200.00	7,730.00	7,704.46	7,703.09	127.27	27.22	81.57	-4,500.30	2,083.15	1,684.94	1,610.93	74.01	22.766		
16,300.00	7,730.00	7,703.60	7,702.23	128.94	27.22	81.19	-4,500.31	2,083.15	1,784.66	1,710.50	74.16	24.065		
16,400.00	7,730.00	7,700.00	7,698.63	130.60	27.20	79.61	-4,500.35	2,083.17	1,884.42	1,810.10	74.32	25.355		
16,500.00	7,730.00	7,700.00	7,698.63	132.27	27.20	79.61	-4,500.35	2,083.17	1,984.19	1,909.75	74.45	26.653		
16,600.00	7,730.00	7,700.00	7,698.63	133.94	27.20	79.61	-4,500.35	2,083.17	2,083.99	2,009.43	74.56	27.949		
16,700.00	7,730.00	7,700.00	7,698.63	135.61	27.20	79.61	-4,500.35	2,083.17	2,183.81	2,109.13	74.68	29.244		
16,800.00	7,730.00	7,700.00	7,698.63	137.28	27.20	79.61	-4,500.35	2,083.17	2,283.64	2,208.86	74.78	30.538		
16,900.00	7,730.00	7,700.00	7,698.63	138.96	27.20	79.61	-4,500.35	2,083.17	2,383.48	2,308.60	74.88	31.829		
17,000.00	7,730.00	7,700.00	7,698.63	140.64	27.20	79.61	-4,500.35	2,083.17	2,483.34	2,408.36	74.98	33.120		
17,100.00	7,730.00	7,700.00	7,698.63	142.32	27.20	79.61	-4,500.35	2,083.17	2,583.21	2,508.13	75.07	34.409		
17,200.00	7,730.00	7,700.00	7,698.63	144.00	27.20	79.61	-4,500.35	2,083.17	2,683.09	2,607.92	75.17	35.696		
17,300.00	7,730.00	7,695.71	7,694.34	145.69	27.19	77.76	-4,500.39	2,083.20	2,782.97	2,707.70	75.28	36.971		
17,400.00	7,730.00	7,694.98	7,693.61	147.37	27.19	77.44	-4,500.40	2,083.20	2,882.86	2,807.50	75.36	38.253		
17,500.00	7,730.00	7,694.26	7,692.89	149.06	27.18	77.14	-4,500.41	2,083.21	2,982.77	2,907.32	75.45	39.534		
17,600.00	7,730.00	7,693.55	7,692.18	150.75	27.18	76.83	-4,500.41	2,083.21	3,082.67	3,007.14	75.53	40.813		
17,700.00	7,730.00	7,692.85	7,691.48	152.44	27.18	76.54	-4,500.42	2,083.22	3,182.58	3,106.97	75.61	42.091		
17,800.00	7,730.00	7,692.17	7,690.79	154.13	27.18	76.24	-4,500.43	2,083.22	3,282.50	3,206.81	75.69	43.367		
17,900.00	7,730.00	7,691.49	7,690.12	155.83	27.17	75.96	-4,500.43	2,083.22	3,382.42	3,306.66	75.77	44.641		
18,000.00	7,730.00	7,690.83	7,689.45	157.52	27.17	75.68	-4,500.44	2,083.23	3,482.35	3,406.51	75.85	45.914		
18,100.00	7,730.00	7,690.17	7,688.80	159.22	27.17	75.40	-4,500.44	2,083.23	3,582.28	3,506.36	75.92	47.185		
18,200.00	7,730.00	7,689.53	7,688.16	160.92	27.17	75.13	-4,500.45	2,083.23	3,682.22	3,606.22	75.99	48.454		
18,300.00	7,730.00	7,688.89	7,687.52	162.62	27.16	74.86	-4,500.46	2,083.24	3,782.15	3,706.09	76.07	49.722		
18,400.00	7,730.00	7,688.27	7,686.90	164.32	27.16	74.60	-4,500.46	2,083.24	3,882.09	3,805.96	76.14	50.988		
18,426.22	7,730.00	7,688.11	7,686.73	164.76	27.16	74.53	-4,500.46	2,083.24	3,908.30	3,832.14	76.16	51.320		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	16.00	16.00	0.00	0.12	163.17	-7,180.39	2,171.77	7,501.64					
100.00	100.00	116.00	116.00	0.13	1.06	163.17	-7,180.39	2,171.77	7,501.64	7,500.45	1.19	6,302.033		
200.00	200.00	216.00	216.00	0.49	2.80	163.17	-7,180.39	2,171.77	7,501.64	7,498.34	3.29	2,277.259		
300.00	300.00	316.00	316.00	0.85	4.55	163.17	-7,180.39	2,171.77	7,501.64	7,496.24	5.40	1,389.719		
400.00	400.00	416.00	416.00	1.21	6.29	163.17	-7,180.39	2,171.77	7,501.64	7,494.14	7.50	999.984		
500.00	500.00	516.00	516.00	1.57	8.04	163.17	-7,180.39	2,171.77	7,501.64	7,492.03	9.61	780.969		
600.00	600.00	616.00	616.00	1.93	9.78	163.17	-7,180.39	2,171.77	7,501.64	7,489.93	11.71	640.653		
700.00	700.00	716.00	716.00	2.29	11.53	163.17	-7,180.39	2,171.77	7,501.64	7,487.83	13.81	543.079		
800.00	800.00	816.00	816.00	2.64	13.27	163.17	-7,180.39	2,171.77	7,501.64	7,485.72	15.92	471.298		
900.00	900.00	916.00	916.00	3.00	15.02	163.17	-7,180.39	2,171.77	7,501.64	7,483.62	18.02	416.278		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	16.76	163.17	-7,180.39	2,171.77	7,501.64	7,481.51	20.12	372.760		
1,100.00	1,100.00	1,116.00	1,116.00	3.72	18.51	163.17	-7,180.39	2,171.77	7,501.64	7,479.41	22.23	337.481		
1,200.00	1,200.00	1,216.00	1,216.00	4.08	20.25	163.17	-7,180.39	2,171.77	7,501.64	7,477.31	24.33	308.301		
1,300.00	1,299.98	1,315.98	1,315.98	4.43	22.00	116.05	-7,180.39	2,171.77	7,502.41	7,475.97	26.43	283.827		
1,400.00	1,399.84	1,415.84	1,415.84	4.79	23.74	116.04	-7,180.39	2,171.77	7,504.71	7,476.18	28.53	263.038		
1,500.00	1,499.45	1,515.45	1,515.45	5.15	25.48	116.03	-7,180.39	2,171.77	7,508.54	7,477.92	30.63	245.153		
1,600.00	1,598.70	1,614.70	1,614.70	5.51	27.21	116.02	-7,180.39	2,171.77	7,513.92	7,481.20	32.73	229.607		
1,700.00	1,697.47	1,713.47	1,713.47	5.89	28.94	116.00	-7,180.39	2,171.77	7,520.85	7,486.03	34.82	215.972		
1,800.00	1,795.62	1,811.62	1,811.62	6.28	30.65	115.98	-7,180.39	2,171.77	7,529.34	7,492.42	36.92	203.912		
1,900.00	1,893.06	1,909.06	1,909.06	6.69	32.35	115.95	-7,180.39	2,171.77	7,539.40	7,500.37	39.03	193.166		
2,000.00	1,989.64	2,005.64	2,005.64	7.13	34.04	115.91	-7,180.39	2,171.77	7,551.03	7,509.89	41.14	183.527		
2,100.00	2,085.27	2,101.27	2,101.27	7.61	35.71	115.86	-7,180.39	2,171.77	7,564.26	7,521.00	43.27	174.830		
2,200.00	2,179.82	2,204.18	2,195.82	8.12	37.50	115.80	-7,180.39	2,171.77	7,579.10	7,533.56	45.55	166.404		
2,300.00	2,273.17	2,289.17	2,289.17	8.67	38.98	115.73	-7,180.39	2,171.77	7,595.56	7,548.02	47.55	159.749		
2,400.00	2,365.21	2,381.21	2,381.21	9.27	40.59	115.65	-7,180.39	2,171.77	7,613.66	7,563.95	49.71	153.169		
2,500.00	2,455.84	2,471.84	2,471.84	9.92	42.17	115.55	-7,180.39	2,171.77	7,633.41	7,581.53	51.88	147.126		
2,580.62	2,527.80	2,543.80	2,543.80	10.49	43.43	115.46	-7,180.39	2,171.77	7,650.55	7,596.90	53.65	142.604		
2,600.00	2,544.97	2,560.97	2,560.97	10.63	43.73	115.51	-7,180.39	2,171.77	7,654.81	7,600.73	54.07	141.560		
2,700.00	2,633.58	2,649.58	2,649.58	11.37	45.28	115.80	-7,180.39	2,171.77	7,676.89	7,620.61	56.28	136.398		
2,800.00	2,722.19	2,738.19	2,738.19	12.13	46.82	116.08	-7,180.39	2,171.77	7,699.20	7,640.69	58.51	131.592		
2,900.00	2,810.80	2,826.80	2,826.80	12.91	48.37	116.36	-7,180.39	2,171.77	7,721.71	7,660.96	60.75	127.114		
3,000.00	2,899.41	2,915.41	2,915.41	13.71	49.91	116.64	-7,180.39	2,171.77	7,744.44	7,681.44	63.00	122.937		
3,100.00	2,988.02	3,004.02	3,004.02	14.52	51.46	116.92	-7,180.39	2,171.77	7,767.38	7,702.12	65.25	119.035		
3,200.00	3,076.63	3,107.37	3,092.63	15.34	53.27	117.19	-7,180.39	2,171.77	7,790.52	7,722.75	67.77	114.949		
3,300.00	3,165.24	3,181.24	3,181.24	16.16	54.55	117.47	-7,180.39	2,171.77	7,813.87	7,744.09	69.79	111.970		
3,400.00	3,253.85	3,269.85	3,269.85	17.00	56.10	117.74	-7,180.39	2,171.77	7,837.43	7,765.37	72.06	108.765		
3,500.00	3,342.46	3,358.46	3,358.46	17.84	57.65	118.02	-7,180.39	2,171.77	7,861.19	7,786.86	74.33	105.755		
3,600.00	3,431.07	3,447.07	3,447.07	18.69	59.19	118.29	-7,180.39	2,171.77	7,885.15	7,808.54	76.61	102.924		
3,700.00	3,519.68	3,535.68	3,535.68	19.55	60.74	118.56	-7,180.39	2,171.77	7,909.31	7,830.42	78.89	100.257		
3,800.00	3,608.29	3,624.29	3,624.29	20.40	62.29	118.83	-7,180.39	2,171.77	7,933.67	7,852.50	81.17	97.741		
3,900.00	3,696.90	3,712.90	3,712.90	21.26	63.83	119.09	-7,180.39	2,171.77	7,958.22	7,874.77	83.45	95.365		
4,000.00	3,785.51	3,801.51	3,801.51	22.13	65.38	119.36	-7,180.39	2,171.77	7,982.96	7,897.23	85.73	93.117		
4,100.00	3,874.12	3,909.88	3,890.12	23.00	67.27	119.62	-7,180.39	2,171.77	8,007.90	7,919.55	88.35	90.634		
4,200.00	3,962.73	3,978.73	3,978.73	23.87	68.47	119.89	-7,180.39	2,171.77	8,033.03	7,942.74	90.29	88.971		
4,300.00	4,051.34	4,067.34	4,067.34	24.74	70.02	120.15	-7,180.39	2,171.77	8,058.34	7,965.78	92.57	87.056		
4,400.00	4,139.95	4,155.95	4,155.95	25.62	71.57	120.41	-7,180.39	2,171.77	8,083.85	7,989.00	94.84	85.235		
4,500.00	4,228.56	4,244.56	4,244.56	26.49	73.11	120.67	-7,180.39	2,171.77	8,109.53	8,012.42	97.12	83.503		
4,600.00	4,317.17	4,333.17	4,333.17	27.37	74.66	120.93	-7,180.39	2,171.77	8,135.40	8,036.01	99.39	81.854		
4,700.00	4,405.78	4,421.78	4,421.78	28.25	76.21	121.18	-7,180.39	2,171.77	8,161.45	8,059.79	101.66	80.281		
4,800.00	4,494.39	4,510.39	4,510.39	29.13	77.75	121.44	-7,180.39	2,171.77	8,187.68	8,083.75	103.93	78.781		
4,900.00	4,583.00	4,601.00	4,599.00	30.02	79.33	121.69	-7,180.39	2,171.77	8,214.09	8,107.86	106.23	77.322		
5,000.00	4,671.61	4,687.61	4,687.61	30.90	80.85	121.94	-7,180.39	2,171.77	8,240.67	8,132.21	108.46	75.978		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,776.22	4,776.22	31.79	82.39	122.19	-7,180.39	2,171.77	8,267.43	8,156.71	110.72	74.667		
5,200.00	4,848.83	4,864.83	4,864.83	32.67	83.94	122.44	-7,180.39	2,171.77	8,294.36	8,181.38	112.99	73.411		
5,300.00	4,937.44	4,953.44	4,953.44	33.56	85.49	122.69	-7,180.39	2,171.77	8,321.47	8,206.22	115.24	72.208		
5,400.00	5,026.05	5,042.05	5,042.05	34.45	87.03	122.94	-7,180.39	2,171.77	8,348.74	8,231.24	117.50	71.054		
5,500.00	5,114.66	5,130.66	5,130.66	35.34	88.58	123.18	-7,180.39	2,171.77	8,376.18	8,256.43	119.75	69.946		
5,600.00	5,203.27	5,219.27	5,219.27	36.23	90.12	123.43	-7,180.39	2,171.77	8,403.78	8,281.78	122.00	68.882		
5,700.00	5,291.88	5,307.88	5,307.88	37.12	91.67	123.67	-7,180.39	2,171.77	8,431.55	8,307.30	124.25	67.859		
5,800.00	5,380.50	5,403.51	5,396.50	38.01	93.34	123.91	-7,180.39	2,171.77	8,459.48	8,332.87	126.62	66.811		
5,900.00	5,469.11	5,485.11	5,485.11	38.90	94.76	124.15	-7,180.39	2,171.77	8,487.58	8,358.84	128.74	65.929		
6,000.00	5,557.72	5,573.72	5,573.72	39.79	96.31	124.39	-7,180.39	2,171.77	8,515.83	8,384.85	130.98	65.017		
6,100.00	5,646.33	5,662.33	5,662.33	40.68	97.86	124.63	-7,180.39	2,171.77	8,544.24	8,411.03	133.22	64.138		
6,200.00	5,734.94	5,750.94	5,750.94	41.58	99.40	124.86	-7,180.39	2,171.77	8,572.81	8,437.36	135.45	63.291		
6,300.00	5,823.55	5,839.55	5,839.55	42.47	100.95	125.10	-7,180.39	2,171.77	8,601.53	8,463.85	137.68	62.473		
6,400.00	5,912.16	5,928.16	5,928.16	43.36	102.50	125.33	-7,180.39	2,171.77	8,630.41	8,490.50	139.91	61.684		
6,500.00	6,000.77	6,016.77	6,016.77	44.26	104.04	125.56	-7,180.39	2,171.77	8,659.44	8,517.30	142.14	60.922		
6,600.00	6,089.38	6,105.38	6,105.38	45.15	105.59	125.79	-7,180.39	2,171.77	8,688.61	8,544.25	144.36	60.186		
6,700.00	6,177.99	6,206.01	6,193.99	46.05	107.35	126.02	-7,180.39	2,171.77	8,717.94	8,571.15	146.79	59.389		
6,800.00	6,266.60	6,282.60	6,282.60	46.94	108.68	126.25	-7,180.39	2,171.77	8,747.41	8,598.61	148.80	58.785		
6,900.00	6,355.21	6,371.21	6,371.21	47.84	110.23	126.47	-7,180.39	2,171.77	8,777.03	8,626.02	151.02	58.119		
7,000.00	6,443.82	6,459.82	6,459.82	48.74	111.78	126.70	-7,180.39	2,171.77	8,806.80	8,653.57	153.23	57.474		
7,100.00	6,532.43	6,548.43	6,548.43	49.63	113.32	126.92	-7,180.39	2,171.77	8,836.71	8,681.26	155.44	56.849		
7,200.00	6,621.04	6,637.04	6,637.04	50.53	114.87	127.15	-7,180.39	2,171.77	8,866.75	8,709.10	157.65	56.243		
7,300.00	6,709.65	6,725.65	6,725.65	51.42	116.42	127.37	-7,180.39	2,171.77	8,896.94	8,737.09	159.86	55.656		
7,400.00	6,798.26	6,814.26	6,814.26	52.32	117.96	127.59	-7,180.39	2,171.77	8,927.27	8,765.21	162.06	55.087		
7,500.00	6,886.87	6,902.87	6,902.87	53.22	119.51	127.81	-7,180.39	2,171.77	8,957.73	8,793.47	164.26	54.535		
7,600.00	6,975.48	7,008.52	6,991.48	54.12	121.35	128.02	-7,180.39	2,171.77	8,988.33	8,821.58	166.75	53.902		
7,656.30	7,025.36	7,041.36	7,041.36	54.62	121.93	128.14	-7,180.39	2,171.77	9,005.62	8,837.93	167.69	53.704		
7,700.00	7,064.54	7,080.54	7,080.54	55.00	122.61	121.12	-7,180.39	2,171.77	9,017.47	8,848.81	168.66	53.466		
7,750.00	7,110.29	7,126.29	7,126.29	55.40	123.41	111.21	-7,180.39	2,171.77	9,027.08	8,857.31	169.78	53.170		
7,800.00	7,156.67	7,172.67	7,172.67	55.75	124.22	99.43	-7,180.39	2,171.77	9,032.42	8,861.52	170.90	52.852		
7,850.00	7,203.34	7,219.34	7,219.34	56.05	125.03	86.59	-7,180.39	2,171.77	9,033.45	8,861.43	172.02	52.514		
7,900.00	7,249.95	7,265.95	7,265.95	56.30	125.85	73.99	-7,180.39	2,171.77	9,030.15	8,857.03	173.12	52.161		
7,950.00	7,296.14	7,312.14	7,312.14	56.50	126.65	62.81	-7,180.39	2,171.77	9,022.55	8,848.35	174.20	51.795		
8,000.00	7,341.56	7,357.56	7,357.56	56.64	127.44	53.60	-7,180.39	2,171.77	9,010.71	8,835.47	175.24	51.420		
8,050.00	7,385.86	7,401.86	7,401.86	56.74	128.22	46.29	-7,180.39	2,171.77	8,994.71	8,818.48	176.23	51.038		
8,100.00	7,428.71	7,444.71	7,444.71	56.79	128.97	40.59	-7,180.39	2,171.77	8,974.68	8,797.49	177.19	50.651		
8,150.00	7,469.77	7,485.77	7,485.77	56.80	129.68	36.15	-7,180.39	2,171.77	8,950.76	8,772.67	178.08	50.261		
8,200.00	7,508.75	7,524.75	7,524.75	56.77	130.36	32.67	-7,180.39	2,171.77	8,923.13	8,744.20	178.93	49.871		
8,250.00	7,545.33	7,561.33	7,561.33	56.70	131.00	29.93	-7,180.39	2,171.77	8,891.99	8,712.29	179.70	49.481		
8,300.00	7,579.25	7,604.75	7,595.25	56.59	131.76	27.77	-7,180.39	2,171.77	8,857.59	8,677.00	180.58	49.050		
8,350.00	7,610.24	7,626.24	7,626.24	56.45	132.13	26.05	-7,180.39	2,171.77	8,820.17	8,639.11	181.06	48.714		
8,400.00	7,638.06	7,654.06	7,654.06	56.28	132.62	24.71	-7,180.39	2,171.77	8,780.02	8,598.39	181.63	48.340		
8,450.00	7,662.52	7,678.52	7,678.52	56.09	133.05	23.67	-7,180.39	2,171.77	8,737.44	8,555.31	182.13	47.974		
8,500.00	7,683.41	7,700.59	7,699.41	55.88	133.43	22.89	-7,180.39	2,171.77	8,692.75	8,510.18	182.57	47.614		
8,550.00	7,700.59	7,716.59	7,716.59	55.64	133.71	22.36	-7,180.39	2,171.77	8,646.28	8,463.39	182.89	47.277		
8,600.00	7,713.91	7,729.91	7,729.91	55.39	133.94	22.10	-7,180.39	2,171.77	8,598.39	8,415.24	183.15	46.948		
8,650.00	7,723.29	7,739.29	7,739.29	55.14	134.11	22.22	-7,180.39	2,171.77	8,549.43	8,366.11	183.33	46.635		
8,700.00	7,728.64	7,744.64	7,744.64	54.87	134.20	23.50	-7,180.39	2,171.77	8,499.78	8,316.36	183.43	46.339		
8,740.83	7,730.00	7,746.00	7,746.00	54.65	134.22	90.00	-7,180.39	2,171.77	8,458.99	8,275.54	183.45	46.110		
8,800.00	7,730.00	7,746.00	7,746.00	54.33	134.22	90.00	-7,180.39	2,171.77	8,399.82	8,216.37	183.45	45.788		
8,900.00	7,730.00	7,746.00	7,746.00	53.82	134.22	90.00	-7,180.39	2,171.77	8,299.82	8,116.38	183.45	45.244		
9,000.00	7,730.00	7,746.00	7,746.00	53.33	134.22	90.00	-7,180.39	2,171.77	8,199.82	8,016.38	183.44	44.699		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	
9,100.00	7,730.00	7,746.00	7,746.00	52.87	134.22	90.00	-7,180.39	2,171.77	8,099.82	7,916.38	183.44	44.155		
9,200.00	7,730.00	7,746.00	7,746.00	52.44	134.22	90.00	-7,180.39	2,171.77	7,999.82	7,816.38	183.44	43.610		
9,300.00	7,730.00	7,746.00	7,746.00	52.03	134.22	90.00	-7,180.39	2,171.77	7,899.83	7,716.39	183.44	43.065		
9,400.00	7,730.00	7,746.00	7,746.00	51.65	134.22	90.00	-7,180.39	2,171.77	7,799.83	7,616.39	183.44	42.520		
9,500.00	7,730.00	7,746.00	7,746.00	51.29	134.22	90.00	-7,180.39	2,171.77	7,699.83	7,516.39	183.44	41.975		
9,600.00	7,730.00	7,746.00	7,746.00	50.95	134.22	90.00	-7,180.39	2,171.77	7,599.83	7,416.39	183.44	41.429		
9,700.00	7,730.00	7,746.00	7,746.00	50.64	134.22	90.00	-7,180.39	2,171.77	7,499.83	7,316.39	183.44	40.884		
9,800.00	7,730.00	7,746.00	7,746.00	50.35	134.22	90.00	-7,180.39	2,171.77	7,399.83	7,216.38	183.44	40.338		
9,900.00	7,730.00	7,746.00	7,746.00	50.09	134.22	90.00	-7,180.39	2,171.77	7,299.83	7,116.38	183.45	39.792		
10,000.00	7,730.00	7,746.00	7,746.00	49.86	134.22	90.00	-7,180.39	2,171.77	7,199.83	7,016.38	183.45	39.247		
10,100.00	7,730.00	7,746.00	7,746.00	49.65	134.22	90.00	-7,180.39	2,171.77	7,099.83	6,916.38	183.46	38.701		
10,200.00	7,730.00	7,746.00	7,746.00	49.48	134.22	90.00	-7,180.39	2,171.77	6,999.83	6,816.37	183.46	38.154		
10,300.00	7,730.00	7,746.00	7,746.00	49.35	134.22	90.00	-7,180.39	2,171.77	6,899.83	6,716.37	183.47	37.608		
10,400.00	7,730.00	7,746.00	7,746.00	49.27	134.22	90.00	-7,180.39	2,171.77	6,799.83	6,616.36	183.47	37.062		
10,500.00	7,730.00	7,746.00	7,746.00	49.26	134.22	90.00	-7,180.39	2,171.77	6,699.84	6,516.36	183.48	36.516		
10,600.00	7,730.00	7,746.00	7,746.00	49.32	134.22	90.00	-7,180.39	2,171.77	6,599.84	6,416.35	183.49	35.969		
10,700.00	7,730.00	7,746.00	7,746.00	49.51	134.22	90.00	-7,180.39	2,171.77	6,499.84	6,316.34	183.49	35.422		
10,800.00	7,730.00	7,746.00	7,746.00	49.83	134.22	90.00	-7,180.39	2,171.77	6,399.84	6,216.33	183.50	34.876		
10,900.00	7,730.00	7,746.00	7,746.00	50.31	134.22	90.00	-7,180.39	2,171.77	6,299.84	6,116.33	183.51	34.329		
11,000.00	7,730.00	7,746.00	7,746.00	50.96	134.22	90.00	-7,180.39	2,171.77	6,199.84	6,016.32	183.52	33.782		
11,100.00	7,730.00	7,746.00	7,746.00	51.75	134.22	90.00	-7,180.39	2,171.77	6,099.84	5,916.31	183.53	33.235		
11,200.00	7,730.00	7,746.00	7,746.00	52.66	134.22	90.00	-7,180.39	2,171.77	5,999.84	5,816.30	183.55	32.688		
11,300.00	7,730.00	7,746.00	7,746.00	53.67	134.22	90.00	-7,180.39	2,171.77	5,899.84	5,716.29	183.56	32.141		
11,400.00	7,730.00	7,746.00	7,746.00	54.75	134.22	90.00	-7,180.39	2,171.77	5,799.85	5,616.27	183.57	31.594		
11,500.00	7,730.00	7,746.00	7,746.00	55.89	134.22	90.00	-7,180.39	2,171.77	5,699.85	5,516.26	183.59	31.047		
11,600.00	7,730.00	7,746.00	7,746.00	57.07	134.22	90.00	-7,180.39	2,171.77	5,599.85	5,416.25	183.60	30.500		
11,700.00	7,730.00	7,746.00	7,746.00	58.30	134.22	90.00	-7,180.39	2,171.77	5,499.85	5,316.23	183.62	29.953		
11,800.00	7,730.00	7,746.00	7,746.00	59.55	134.22	90.00	-7,180.39	2,171.77	5,399.85	5,216.22	183.63	29.406		
11,900.00	7,730.00	7,746.00	7,746.00	60.84	134.22	90.00	-7,180.39	2,171.77	5,299.85	5,116.20	183.65	28.859		
12,000.00	7,730.00	7,746.00	7,746.00	62.15	134.22	90.00	-7,180.39	2,171.77	5,199.85	5,016.19	183.67	28.311		
12,100.00	7,730.00	7,746.00	7,746.00	63.49	134.22	90.00	-7,180.39	2,171.77	5,099.86	4,916.17	183.69	27.764		
12,200.00	7,730.00	7,746.00	7,746.00	64.85	134.22	90.00	-7,180.39	2,171.77	4,999.86	4,816.15	183.70	27.217		
12,300.00	7,730.00	7,746.00	7,746.00	66.22	134.22	90.00	-7,180.39	2,171.77	4,899.86	4,716.13	183.73	26.670		
12,400.00	7,730.00	7,746.00	7,746.00	67.62	134.22	90.00	-7,180.39	2,171.77	4,799.86	4,616.11	183.75	26.122		
12,500.00	7,730.00	7,746.00	7,746.00	69.03	134.22	90.00	-7,180.39	2,171.77	4,699.86	4,516.09	183.77	25.575		
12,600.00	7,730.00	7,746.00	7,746.00	70.45	134.22	90.00	-7,180.39	2,171.77	4,599.87	4,416.07	183.79	25.028		
12,700.00	7,730.00	7,746.00	7,746.00	71.90	134.22	90.00	-7,180.39	2,171.77	4,499.87	4,316.05	183.82	24.480		
12,800.00	7,730.00	7,746.00	7,746.00	73.35	134.22	90.00	-7,180.39	2,171.77	4,399.87	4,216.03	183.84	23.933		
12,900.00	7,730.00	7,746.00	7,746.00	74.81	134.22	90.00	-7,180.39	2,171.77	4,299.87	4,116.01	183.87	23.386		
13,000.00	7,730.00	7,746.00	7,746.00	76.29	134.22	90.00	-7,180.39	2,171.77	4,199.87	4,015.98	183.89	22.839		
13,100.00	7,730.00	7,746.00	7,746.00	77.78	134.22	90.00	-7,180.39	2,171.77	4,099.88	3,915.96	183.92	22.291		
13,200.00	7,730.00	7,746.00	7,746.00	79.28	134.22	90.00	-7,180.39	2,171.77	3,999.88	3,815.93	183.95	21.744		
13,300.00	7,730.00	7,746.00	7,746.00	80.79	134.22	90.00	-7,180.39	2,171.77	3,899.88	3,715.90	183.98	21.197		
13,400.00	7,730.00	7,746.00	7,746.00	82.31	134.22	90.00	-7,180.39	2,171.77	3,799.89	3,615.87	184.01	20.650		
13,500.00	7,730.00	7,746.00	7,746.00	83.84	134.22	90.00	-7,180.39	2,171.77	3,699.89	3,515.84	184.05	20.103		
13,600.00	7,730.00	7,746.00	7,746.00	85.37	134.22	90.00	-7,180.39	2,171.77	3,599.89	3,415.81	184.08	19.556		
13,700.00	7,730.00	7,746.00	7,746.00	86.92	134.22	90.00	-7,180.39	2,171.77	3,499.90	3,315.78	184.12	19.009		
13,800.00	7,730.00	7,746.00	7,746.00	88.47	134.22	90.00	-7,180.39	2,171.77	3,399.90	3,215.75	184.15	18.462		
13,900.00	7,730.00	7,746.00	7,746.00	90.03	134.22	90.00	-7,180.39	2,171.77	3,299.90	3,115.71	184.19	17.916		
14,000.00	7,730.00	7,746.00	7,746.00	91.59	134.22	90.00	-7,180.39	2,171.77	3,199.91	3,015.68	184.23	17.369		
14,100.00	7,730.00	7,746.00	7,746.00	93.16	134.22	90.00	-7,180.39	2,171.77	3,099.91	2,915.64	184.27	16.822		
14,200.00	7,730.00	7,746.00	7,746.00	94.74	134.22	90.00	-7,180.39	2,171.77	2,999.92	2,815.60	184.32	16.276		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	7,746.00	7,746.00	96.33	134.22	90.00	-7,180.39	2,171.77	2,899.92	2,715.56	184.36	15.729		
14,400.00	7,730.00	7,746.00	7,746.00	97.92	134.22	90.00	-7,180.39	2,171.77	2,799.93	2,615.51	184.41	15.183		
14,500.00	7,730.00	7,746.00	7,746.00	99.51	134.22	90.00	-7,180.39	2,171.77	2,699.93	2,515.47	184.46	14.637		
14,600.00	7,730.00	7,746.00	7,746.00	101.11	134.22	90.00	-7,180.39	2,171.77	2,599.94	2,415.42	184.52	14.091		
14,700.00	7,730.00	7,746.00	7,746.00	102.72	134.22	90.00	-7,180.39	2,171.77	2,499.95	2,315.37	184.57	13.544		
14,800.00	7,730.00	7,746.00	7,746.00	104.33	134.22	90.00	-7,180.39	2,171.77	2,399.95	2,215.32	184.63	12.999		
14,900.00	7,730.00	7,746.00	7,746.00	105.94	134.22	90.00	-7,180.39	2,171.77	2,299.96	2,115.27	184.70	12.453		
15,000.00	7,730.00	7,746.00	7,746.00	107.56	134.22	90.00	-7,180.39	2,171.77	2,199.97	2,015.21	184.76	11.907		
15,100.00	7,730.00	7,746.00	7,746.00	109.18	134.22	90.00	-7,180.39	2,171.77	2,099.98	1,915.15	184.83	11.361		
15,200.00	7,730.00	7,746.00	7,746.00	110.81	134.22	90.00	-7,180.39	2,171.77	1,999.99	1,815.08	184.91	10.816		
15,300.00	7,730.00	7,746.00	7,746.00	112.44	134.22	90.00	-7,180.39	2,171.77	1,900.00	1,715.01	184.99	10.271		
15,400.00	7,730.00	7,746.00	7,746.00	114.08	134.22	90.00	-7,180.39	2,171.77	1,800.02	1,614.93	185.08	9.725		
15,500.00	7,730.00	7,746.00	7,746.00	115.72	134.22	90.00	-7,180.39	2,171.77	1,700.03	1,514.85	185.18	9.180		
15,600.00	7,730.00	7,746.00	7,746.00	117.36	134.22	90.00	-7,180.39	2,171.77	1,600.05	1,414.76	185.29	8.636		
15,700.00	7,730.00	7,746.00	7,746.00	119.00	134.22	90.00	-7,180.39	2,171.77	1,500.06	1,314.66	185.40	8.091		
15,800.00	7,730.00	7,746.00	7,746.00	120.65	134.22	90.00	-7,180.39	2,171.77	1,400.09	1,214.55	185.53	7.546		
15,900.00	7,730.00	7,746.00	7,746.00	122.30	134.22	90.00	-7,180.39	2,171.77	1,300.11	1,114.43	185.68	7.002		
16,000.00	7,730.00	7,746.00	7,746.00	123.96	134.22	90.00	-7,180.39	2,171.77	1,200.14	1,014.29	185.85	6.458		
16,100.00	7,730.00	7,746.00	7,746.00	125.61	134.22	90.00	-7,180.39	2,171.77	1,100.17	914.13	186.04	5.913		
16,200.00	7,730.00	7,746.00	7,746.00	127.27	134.22	90.00	-7,180.39	2,171.77	1,000.21	813.94	186.27	5.370		
16,300.00	7,730.00	7,746.00	7,746.00	128.94	134.22	90.00	-7,180.39	2,171.77	900.26	713.71	186.55	4.826		
16,400.00	7,730.00	7,746.00	7,746.00	130.60	134.22	90.00	-7,180.39	2,171.77	800.32	613.43	186.89	4.282		
16,500.00	7,730.00	7,746.00	7,746.00	132.27	134.22	90.00	-7,180.39	2,171.77	700.40	513.08	187.32	3.739		
16,600.00	7,730.00	7,746.00	7,746.00	133.94	134.22	90.00	-7,180.39	2,171.77	600.51	412.61	187.90	3.196		
16,700.00	7,730.00	7,746.00	7,746.00	135.61	134.22	90.00	-7,180.39	2,171.77	500.66	311.95	188.71	2.653		
16,800.00	7,730.00	7,746.00	7,746.00	137.28	134.22	90.00	-7,180.39	2,171.77	400.88	210.94	189.94	2.111		
16,900.00	7,730.00	7,746.00	7,746.00	138.96	134.22	90.00	-7,180.39	2,171.77	301.24	109.20	192.04	1.569		
17,000.00	7,730.00	7,746.00	7,746.00	140.64	134.22	90.00	-7,180.39	2,171.77	201.98	5.54	196.44	1.028 Level 2		
17,100.00	7,730.00	7,746.00	7,746.00	142.32	134.22	90.00	-7,180.39	2,171.77	104.12	-106.12	210.23	0.495 Level 1		
17,199.77	7,730.00	7,746.00	7,746.00	144.00	134.22	90.00	-7,180.39	2,171.77	29.78	-246.25	276.03	0.108 Level 1, CC, ES, SF		
17,200.00	7,730.00	7,746.00	7,746.00	144.00	134.22	90.00	-7,180.39	2,171.77	29.78	-246.06	275.84	0.108 Level 1		
17,300.00	7,730.00	7,746.00	7,746.00	145.69	134.22	90.00	-7,180.39	2,171.77	104.56	-76.11	180.67	0.579 Level 1		
17,400.00	7,730.00	7,746.00	7,746.00	147.37	134.22	90.00	-7,180.39	2,171.77	202.43	23.95	178.48	1.134 Level 2		
17,500.00	7,730.00	7,746.00	7,746.00	149.06	134.22	90.00	-7,180.39	2,171.77	301.70	122.03	179.68	1.679		
17,600.00	7,730.00	7,746.00	7,746.00	150.75	134.22	90.00	-7,180.39	2,171.77	401.34	220.69	180.65	2.222		
17,700.00	7,730.00	7,746.00	7,746.00	152.44	134.22	90.00	-7,180.39	2,171.77	501.12	319.76	181.36	2.763		
17,800.00	7,730.00	7,746.00	7,746.00	154.13	134.22	90.00	-7,180.39	2,171.77	600.97	419.08	181.89	3.304		
17,900.00	7,730.00	7,746.00	7,746.00	155.83	134.22	90.00	-7,180.39	2,171.77	700.86	518.56	182.30	3.845		
18,000.00	7,730.00	7,746.00	7,746.00	157.52	134.22	90.00	-7,180.39	2,171.77	800.79	618.16	182.63	4.385		
18,100.00	7,730.00	7,746.00	7,746.00	159.22	134.22	90.00	-7,180.39	2,171.77	900.72	717.82	182.90	4.925		
18,200.00	7,730.00	7,746.00	7,746.00	160.92	134.22	90.00	-7,180.39	2,171.77	1,000.67	817.54	183.13	5.464		
18,300.00	7,730.00	7,746.00	7,746.00	162.62	134.22	90.00	-7,180.39	2,171.77	1,100.63	917.30	183.33	6.004		
18,400.00	7,730.00	7,746.00	7,746.00	164.32	134.22	90.00	-7,180.39	2,171.77	1,200.60	1,017.10	183.50	6.543		
18,426.22	7,730.00	7,746.00	7,746.00	164.76	134.22	90.00	-7,180.39	2,171.77	1,226.81	1,043.27	183.55	6.684		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	140.07	-6,863.61	5,744.44	8,950.36					
100.00	100.00	67.00	67.00	0.13	0.53	140.07	-6,863.61	5,744.44	8,950.30	8,949.64	0.66	N/A		
200.00	200.00	167.00	167.00	0.49	1.95	140.07	-6,863.61	5,744.44	8,950.30	8,947.85	2.45	3,656.663		
300.00	300.00	267.00	267.00	0.85	3.70	140.07	-6,863.61	5,744.44	8,950.30	8,945.75	4.55	1,966.463		
400.00	400.00	367.00	367.00	1.21	5.45	140.07	-6,863.61	5,744.44	8,950.30	8,943.64	6.66	1,344.844		
500.00	500.00	467.00	467.00	1.57	7.19	140.07	-6,863.61	5,744.44	8,950.30	8,941.54	8.76	1,021.832		
600.00	600.00	567.00	567.00	1.93	8.94	140.07	-6,863.61	5,744.44	8,950.30	8,939.43	10.86	823.935		
700.00	700.00	667.00	667.00	2.29	10.68	140.07	-6,863.61	5,744.44	8,950.30	8,937.33	12.97	690.254		
800.00	800.00	767.00	767.00	2.64	12.43	140.07	-6,863.61	5,744.44	8,950.30	8,935.23	15.07	593.896		
900.00	900.00	867.00	867.00	3.00	14.17	140.07	-6,863.61	5,744.44	8,950.30	8,933.12	17.17	521.146		
1,000.00	1,000.00	967.00	967.00	3.36	15.92	140.07	-6,863.61	5,744.44	8,950.30	8,931.02	19.28	464.273		
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.66	140.07	-6,863.61	5,744.44	8,950.30	8,928.92	21.38	418.593		
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.41	140.07	-6,863.61	5,744.44	8,950.30	8,926.81	23.49	381.096		
1,300.00	1,299.98	1,266.98	1,266.98	4.43	21.15	92.96	-6,863.61	5,744.44	8,950.39	8,924.80	25.59	349.812		
1,400.00	1,399.84	1,366.84	1,366.84	4.79	22.90	92.99	-6,863.61	5,744.44	8,950.66	8,922.98	27.68	323.324		
1,500.00	1,499.45	1,466.45	1,466.45	5.15	24.63	93.04	-6,863.61	5,744.44	8,951.12	8,921.34	29.78	300.578		
1,600.00	1,598.70	1,565.70	1,565.70	5.51	26.37	93.10	-6,863.61	5,744.44	8,951.78	8,919.90	31.88	280.823		
1,700.00	1,697.47	1,664.47	1,664.47	5.89	28.09	93.18	-6,863.61	5,744.44	8,952.64	8,918.67	33.98	263.491		
1,800.00	1,795.62	1,762.62	1,762.62	6.28	29.80	93.28	-6,863.61	5,744.44	8,953.74	8,917.66	36.08	248.143		
1,900.00	1,893.06	1,860.06	1,860.06	6.69	31.50	93.39	-6,863.61	5,744.44	8,955.08	8,916.88	38.20	234.441		
2,000.00	1,989.64	1,956.64	1,956.64	7.13	33.19	93.52	-6,863.61	5,744.44	8,956.70	8,916.37	40.32	222.116		
2,100.00	2,085.27	2,052.27	2,052.27	7.61	34.86	93.66	-6,863.61	5,744.44	8,958.61	8,916.14	42.47	210.956		
2,200.00	2,179.82	2,146.82	2,146.82	8.12	36.51	93.81	-6,863.61	5,744.44	8,960.85	8,916.23	44.63	200.792		
2,300.00	2,273.17	2,240.17	2,240.17	8.67	38.14	93.97	-6,863.61	5,744.44	8,963.46	8,916.65	46.81	191.488		
2,400.00	2,365.21	2,332.21	2,332.21	9.27	39.74	94.14	-6,863.61	5,744.44	8,966.46	8,917.45	49.02	182.931		
2,500.00	2,455.84	2,422.84	2,422.84	9.92	41.33	94.32	-6,863.61	5,744.44	8,969.90	8,918.65	51.25	175.032		
2,580.62	2,527.80	2,505.20	2,494.80	10.49	42.76	94.46	-6,863.61	5,744.44	8,973.02	8,919.77	53.25	168.517		
2,600.00	2,544.97	2,511.97	2,511.97	10.63	42.88	94.51	-6,863.61	5,744.44	8,973.81	8,920.31	53.50	167.720		
2,700.00	2,633.58	2,600.58	2,600.58	11.37	44.43	94.77	-6,863.61	5,744.44	8,978.04	8,922.25	55.79	160.927		
2,800.00	2,722.19	2,689.19	2,689.19	12.13	45.98	95.04	-6,863.61	5,744.44	8,982.51	8,924.41	58.10	154.616		
2,900.00	2,810.80	2,777.80	2,777.80	12.91	47.52	95.30	-6,863.61	5,744.44	8,987.21	8,926.80	60.42	148.749		
3,000.00	2,899.41	2,866.41	2,866.41	13.71	49.07	95.56	-6,863.61	5,744.44	8,992.16	8,929.40	62.76	143.287		
3,100.00	2,988.02	2,955.02	2,955.02	14.52	50.61	95.82	-6,863.61	5,744.44	8,997.33	8,932.23	65.11	138.196		
3,200.00	3,076.63	3,043.63	3,043.63	15.34	52.16	96.08	-6,863.61	5,744.44	9,002.75	8,935.28	67.46	133.444		
3,300.00	3,165.24	3,132.24	3,132.24	16.16	53.71	96.34	-6,863.61	5,744.44	9,008.39	8,938.56	69.83	129.002		
3,400.00	3,253.85	3,220.85	3,220.85	17.00	55.25	96.60	-6,863.61	5,744.44	9,014.28	8,942.07	72.21	124.842		
3,500.00	3,342.46	3,309.46	3,309.46	17.84	56.80	96.86	-6,863.61	5,744.44	9,020.39	8,945.81	74.58	120.942		
3,600.00	3,431.07	3,401.93	3,398.07	18.69	58.41	97.12	-6,863.61	5,744.44	9,026.74	8,949.71	77.04	117.176		
3,700.00	3,519.68	3,486.68	3,486.68	19.55	59.89	97.38	-6,863.61	5,744.44	9,033.33	8,953.97	79.36	113.834		
3,800.00	3,608.29	3,575.29	3,575.29	20.40	61.44	97.64	-6,863.61	5,744.44	9,040.15	8,958.40	81.75	110.588		
3,900.00	3,696.90	3,663.90	3,663.90	21.26	62.99	97.89	-6,863.61	5,744.44	9,047.20	8,963.06	84.14	107.526		
4,000.00	3,785.51	3,752.51	3,752.51	22.13	64.53	98.15	-6,863.61	5,744.44	9,054.48	8,967.94	86.53	104.634		
4,100.00	3,874.12	3,841.12	3,841.12	23.00	66.08	98.41	-6,863.61	5,744.44	9,061.99	8,973.06	88.93	101.899		
4,200.00	3,962.73	3,929.73	3,929.73	23.87	67.63	98.67	-6,863.61	5,744.44	9,069.73	8,978.40	91.33	99.308		
4,300.00	4,051.34	4,018.34	4,018.34	24.74	69.17	98.92	-6,863.61	5,744.44	9,077.71	8,983.98	93.73	96.851		
4,400.00	4,139.95	4,106.95	4,106.95	25.62	70.72	99.18	-6,863.61	5,744.44	9,085.91	8,989.78	96.13	94.519		
4,500.00	4,228.56	4,204.44	4,195.56	26.49	72.42	99.44	-6,863.61	5,744.44	9,094.34	8,995.66	98.68	92.157		
4,600.00	4,317.17	4,284.17	4,284.17	27.37	73.81	99.69	-6,863.61	5,744.44	9,103.00	9,002.07	100.93	90.193		
4,700.00	4,405.78	4,372.78	4,372.78	28.25	75.36	99.95	-6,863.61	5,744.44	9,111.89	9,008.56	103.33	88.184		
4,800.00	4,494.39	4,461.39	4,461.39	29.13	76.91	100.20	-6,863.61	5,744.44	9,121.00	9,015.27	105.73	86.269		
4,900.00	4,583.00	4,550.00	4,550.00	30.02	78.45	100.46	-6,863.61	5,744.44	9,130.34	9,022.22	108.13	84.441		
5,000.00	4,671.61	4,638.61	4,638.61	30.90	80.00	100.71	-6,863.61	5,744.44	9,139.91	9,029.38	110.53	82.695		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,727.22	4,727.22	31.79	81.55	100.97	-6,863.61	5,744.44	9,149.70	9,036.77	112.92	81.025		
5,200.00	4,848.83	4,815.83	4,815.83	32.67	83.09	101.22	-6,863.61	5,744.44	9,159.71	9,044.39	115.32	79.428		
5,300.00	4,937.44	4,904.44	4,904.44	33.56	84.64	101.47	-6,863.61	5,744.44	9,169.95	9,052.23	117.72	77.898		
5,400.00	5,026.05	4,993.05	4,993.05	34.45	86.19	101.73	-6,863.61	5,744.44	9,180.41	9,060.30	120.11	76.431		
5,500.00	5,114.66	5,042.00	5,042.00	35.34	87.04	101.87	-6,863.61	5,744.44	9,191.18	9,069.37	121.81	75.455		
5,600.00	5,203.27	5,042.00	5,042.00	36.23	87.04	101.87	-6,863.61	5,744.44	9,202.89	9,080.26	122.63	75.043		
5,700.00	5,291.88	5,042.00	5,042.00	37.12	87.04	101.87	-6,863.61	5,744.44	9,215.67	9,092.23	123.45	74.653		
5,800.00	5,380.50	5,042.00	5,042.00	38.01	87.04	101.87	-6,863.61	5,744.44	9,229.52	9,105.28	124.25	74.285		
5,900.00	5,469.11	5,042.00	5,042.00	38.90	87.04	101.87	-6,863.61	5,744.44	9,244.43	9,119.40	125.03	73.937		
6,000.00	5,557.72	5,042.00	5,042.00	39.79	87.04	101.87	-6,863.61	5,744.44	9,260.40	9,134.59	125.80	73.611		
6,100.00	5,646.33	5,042.00	5,042.00	40.68	87.04	101.87	-6,863.61	5,744.44	9,277.41	9,150.85	126.56	73.305		
6,200.00	5,734.94	5,042.00	5,042.00	41.58	87.04	101.87	-6,863.61	5,744.44	9,295.47	9,168.17	127.30	73.018		
6,300.00	5,823.55	5,042.00	5,042.00	42.47	87.04	101.87	-6,863.61	5,744.44	9,314.57	9,186.54	128.03	72.751		
6,400.00	5,912.16	5,042.00	5,042.00	43.36	87.04	101.87	-6,863.61	5,744.44	9,334.70	9,205.95	128.75	72.503		
6,500.00	6,000.77	5,042.00	5,042.00	44.26	87.04	101.87	-6,863.61	5,744.44	9,355.86	9,226.41	129.45	72.274		
6,600.00	6,089.38	5,042.00	5,042.00	45.15	87.04	101.87	-6,863.61	5,744.44	9,378.03	9,247.90	130.14	72.063		
6,700.00	6,177.99	5,042.00	5,042.00	46.05	87.04	101.87	-6,863.61	5,744.44	9,401.22	9,270.41	130.81	71.869		
6,800.00	6,266.60	5,042.00	5,042.00	46.94	87.04	101.87	-6,863.61	5,744.44	9,425.41	9,293.94	131.47	71.693		
6,900.00	6,355.21	5,042.00	5,042.00	47.84	87.04	101.87	-6,863.61	5,744.44	9,450.60	9,318.49	132.11	71.534		
7,000.00	6,443.82	5,042.00	5,042.00	48.74	87.04	101.87	-6,863.61	5,744.44	9,476.77	9,344.03	132.74	71.392		
7,100.00	6,532.43	5,042.00	5,042.00	49.63	87.04	101.87	-6,863.61	5,744.44	9,503.93	9,370.57	133.36	71.266		
7,200.00	6,621.04	5,042.00	5,042.00	50.53	87.04	101.87	-6,863.61	5,744.44	9,532.06	9,398.10	133.96	71.156		
7,300.00	6,709.65	5,042.00	5,042.00	51.42	87.04	101.87	-6,863.61	5,744.44	9,561.15	9,426.60	134.55	71.062		
7,400.00	6,798.26	5,042.00	5,042.00	52.32	87.04	101.87	-6,863.61	5,744.44	9,591.19	9,456.07	135.12	70.983		
7,500.00	6,886.87	5,042.00	5,042.00	53.22	87.04	101.87	-6,863.61	5,744.44	9,622.18	9,486.50	135.68	70.918		
7,600.00	6,975.48	5,042.00	5,042.00	54.12	87.04	101.87	-6,863.61	5,744.44	9,654.11	9,517.88	136.23	70.869		
7,656.30	7,025.36	5,042.00	5,042.00	54.62	87.04	101.87	-6,863.61	5,744.44	9,672.49	9,535.96	136.53	70.847		
7,700.00	7,064.54	5,042.00	5,042.00	55.00	87.04	95.35	-6,863.61	5,744.44	9,685.56	9,548.81	136.75	70.828		
7,750.00	7,110.29	5,042.00	5,042.00	55.40	87.04	85.85	-6,863.61	5,744.44	9,697.23	9,560.25	136.98	70.795		
7,800.00	7,156.67	5,042.00	5,042.00	55.75	87.04	74.32	-6,863.61	5,744.44	9,705.32	9,568.15	137.17	70.753		
7,850.00	7,203.34	5,042.00	5,042.00	56.05	87.04	61.57	-6,863.61	5,744.44	9,709.79	9,572.45	137.33	70.702		
7,900.00	7,249.95	5,042.00	5,042.00	56.30	87.04	48.90	-6,863.61	5,744.44	9,710.60	9,573.14	137.46	70.644		
7,950.00	7,296.14	5,042.00	5,042.00	56.50	87.04	37.51	-6,863.61	5,744.44	9,707.74	9,570.20	137.54	70.581		
8,000.00	7,341.56	5,042.00	5,042.00	56.64	87.04	27.91	-6,863.61	5,744.44	9,701.25	9,563.66	137.59	70.510		
8,050.00	7,385.86	5,042.00	5,042.00	56.74	87.04	20.06	-6,863.61	5,744.44	9,691.15	9,553.56	137.59	70.433		
8,100.00	7,428.71	5,042.00	5,042.00	56.79	87.04	13.63	-6,863.61	5,744.44	9,677.52	9,539.96	137.57	70.348		
8,150.00	7,469.77	5,042.00	5,042.00	56.80	87.04	8.26	-6,863.61	5,744.44	9,660.45	9,522.94	137.51	70.255		
8,200.00	7,508.75	5,042.00	5,042.00	56.77	87.04	3.62	-6,863.61	5,744.44	9,640.04	9,502.62	137.41	70.153		
8,250.00	7,545.33	5,042.00	5,042.00	56.70	87.04	-0.55	-6,863.61	5,744.44	9,616.43	9,479.13	137.29	70.043		
8,300.00	7,579.25	5,042.00	5,042.00	56.59	87.04	-4.45	-6,863.61	5,744.44	9,589.77	9,452.63	137.15	69.923		
8,350.00	7,610.24	5,042.00	5,042.00	56.45	87.04	-8.27	-6,863.61	5,744.44	9,560.26	9,423.28	136.98	69.794		
8,400.00	7,638.06	5,042.00	5,042.00	56.28	87.04	-12.17	-6,863.61	5,744.44	9,528.07	9,391.29	136.79	69.656		
8,450.00	7,662.52	5,042.00	5,042.00	56.09	87.04	-16.30	-6,863.61	5,744.44	9,493.44	9,356.86	136.58	69.508		
8,500.00	7,683.41	5,042.00	5,042.00	55.88	87.04	-20.84	-6,863.61	5,744.44	9,456.61	9,320.25	136.36	69.350		
8,550.00	7,700.59	5,042.00	5,042.00	55.64	87.04	-25.94	-6,863.61	5,744.44	9,417.82	9,281.69	136.13	69.184		
8,600.00	7,713.91	5,042.00	5,042.00	55.39	87.04	-31.78	-6,863.61	5,744.44	9,377.35	9,241.46	135.89	69.008		
8,650.00	7,723.29	5,042.00	5,042.00	55.14	87.04	-38.50	-6,863.61	5,744.44	9,335.49	9,199.85	135.64	68.823		
8,700.00	7,728.64	5,042.00	5,042.00	54.87	87.04	-46.19	-6,863.61	5,744.44	9,292.55	9,157.15	135.40	68.630		
8,740.83	7,730.00	5,042.00	5,042.00	54.65	87.04	-53.14	-6,863.61	5,744.44	9,256.89	9,121.68	135.20	68.466		
8,800.00	7,730.00	5,042.00	5,042.00	54.33	87.04	-53.14	-6,863.61	5,744.44	9,204.97	9,070.05	134.92	68.227		
8,900.00	7,730.00	5,042.00	5,042.00	53.82	87.04	-53.14	-6,863.61	5,744.44	9,117.41	8,982.98	134.43	67.821		
9,000.00	7,730.00	5,042.00	5,042.00	53.33	87.04	-53.14	-6,863.61	5,744.44	9,030.12	8,896.17	133.95	67.416		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,042.00	5,042.00	52.87	87.04	-53.14	-6,863.61	5,744.44	8,943.09	8,809.63	133.46	67.009		
9,200.00	7,730.00	5,042.00	5,042.00	52.44	87.04	-53.14	-6,863.61	5,744.44	8,856.34	8,723.36	132.97	66.602		
9,300.00	7,730.00	5,042.00	5,042.00	52.03	87.04	-53.14	-6,863.61	5,744.44	8,769.87	8,637.38	132.49	66.193		
9,400.00	7,730.00	5,042.00	5,042.00	51.65	87.04	-53.14	-6,863.61	5,744.44	8,683.69	8,551.68	132.00	65.783		
9,500.00	7,730.00	5,042.00	5,042.00	51.29	87.04	-53.14	-6,863.61	5,744.44	8,597.80	8,466.28	131.52	65.371		
9,600.00	7,730.00	5,042.00	5,042.00	50.95	87.04	-53.14	-6,863.61	5,744.44	8,512.23	8,381.19	131.04	64.957		
9,700.00	7,730.00	5,042.00	5,042.00	50.64	87.04	-53.14	-6,863.61	5,744.44	8,426.98	8,296.41	130.57	64.541		
9,800.00	7,730.00	5,042.00	5,042.00	50.35	87.04	-53.14	-6,863.61	5,744.44	8,342.05	8,211.95	130.10	64.121		
9,900.00	7,730.00	5,042.00	5,042.00	50.09	87.04	-53.14	-6,863.61	5,744.44	8,257.46	8,127.82	129.63	63.698		
10,000.00	7,730.00	5,042.00	5,042.00	49.86	87.04	-53.14	-6,863.61	5,744.44	8,173.21	8,044.04	129.18	63.272		
10,100.00	7,730.00	5,042.00	5,042.00	49.65	87.04	-53.14	-6,863.61	5,744.44	8,089.33	7,960.60	128.73	62.841		
10,200.00	7,730.00	5,042.00	5,042.00	49.48	87.04	-53.14	-6,863.61	5,744.44	8,005.82	7,877.53	128.29	62.405		
10,300.00	7,730.00	5,042.00	5,042.00	49.35	87.04	-53.14	-6,863.61	5,744.44	7,922.69	7,794.83	127.86	61.964		
10,400.00	7,730.00	5,042.00	5,042.00	49.27	87.04	-53.14	-6,863.61	5,744.44	7,839.95	7,712.50	127.44	61.517		
10,500.00	7,730.00	5,042.00	5,042.00	49.26	87.04	-53.14	-6,863.61	5,744.44	7,757.62	7,630.57	127.04	61.064		
10,600.00	7,730.00	5,042.00	5,042.00	49.32	87.04	-53.14	-6,863.61	5,744.44	7,675.71	7,549.05	126.66	60.603		
10,700.00	7,730.00	5,042.00	5,042.00	49.51	87.04	-53.14	-6,863.61	5,744.44	7,594.23	7,467.94	126.29	60.134		
10,800.00	7,730.00	5,042.00	5,042.00	49.83	87.04	-53.14	-6,863.61	5,744.44	7,513.20	7,387.25	125.94	59.656		
10,900.00	7,730.00	5,042.00	5,042.00	50.31	87.04	-53.14	-6,863.61	5,744.44	7,432.63	7,307.01	125.62	59.169		
11,000.00	7,730.00	5,042.00	5,042.00	50.96	87.04	-53.14	-6,863.61	5,744.44	7,352.54	7,227.22	125.32	58.672		
11,100.00	7,730.00	5,042.00	5,042.00	51.75	87.04	-53.14	-6,863.61	5,744.44	7,272.94	7,147.90	125.04	58.164		
11,200.00	7,730.00	5,042.00	5,042.00	52.66	87.04	-53.14	-6,863.61	5,744.44	7,193.85	7,069.05	124.80	57.644		
11,300.00	7,730.00	5,042.00	5,042.00	53.67	87.04	-53.14	-6,863.61	5,744.44	7,115.29	6,990.70	124.59	57.112		
11,400.00	7,730.00	5,042.00	5,042.00	54.75	87.04	-53.14	-6,863.61	5,744.44	7,037.27	6,912.86	124.41	56.567		
11,500.00	7,730.00	5,042.00	5,042.00	55.89	87.04	-53.14	-6,863.61	5,744.44	6,959.81	6,835.55	124.27	56.008		
11,600.00	7,730.00	5,042.00	5,042.00	57.07	87.04	-53.14	-6,863.61	5,744.44	6,882.94	6,758.77	124.16	55.434		
11,700.00	7,730.00	5,042.00	5,042.00	58.30	87.04	-53.14	-6,863.61	5,744.44	6,806.66	6,682.56	124.10	54.846		
11,800.00	7,730.00	5,042.00	5,042.00	59.55	87.04	-53.14	-6,863.61	5,744.44	6,731.01	6,606.92	124.09	54.243		
11,900.00	7,730.00	5,042.00	5,042.00	60.84	87.04	-53.14	-6,863.61	5,744.44	6,656.00	6,531.88	124.12	53.624		
12,000.00	7,730.00	5,042.00	5,042.00	62.15	87.04	-53.14	-6,863.61	5,744.44	6,581.65	6,457.45	124.21	52.989		
12,100.00	7,730.00	5,042.00	5,042.00	63.49	87.04	-53.14	-6,863.61	5,744.44	6,508.00	6,383.65	124.34	52.339		
12,200.00	7,730.00	5,042.00	5,042.00	64.85	87.04	-53.14	-6,863.61	5,744.44	6,435.05	6,310.51	124.54	51.672		
12,300.00	7,730.00	5,042.00	5,042.00	66.22	87.04	-53.14	-6,863.61	5,744.44	6,362.84	6,238.05	124.78	50.991		
12,400.00	7,730.00	5,042.00	5,042.00	67.62	87.04	-53.14	-6,863.61	5,744.44	6,291.38	6,166.29	125.09	50.294		
12,500.00	7,730.00	5,042.00	5,042.00	69.03	87.04	-53.14	-6,863.61	5,744.44	6,220.72	6,095.26	125.46	49.583		
12,600.00	7,730.00	5,042.00	5,042.00	70.45	87.04	-53.14	-6,863.61	5,744.44	6,150.87	6,024.98	125.89	48.858		
12,700.00	7,730.00	5,042.00	5,042.00	71.90	87.04	-53.14	-6,863.61	5,744.44	6,081.86	5,955.47	126.39	48.120		
12,800.00	7,730.00	5,042.00	5,042.00	73.35	87.04	-53.14	-6,863.61	5,744.44	6,013.72	5,886.77	126.95	47.370		
12,900.00	7,730.00	5,042.00	5,042.00	74.81	87.04	-53.14	-6,863.61	5,744.44	5,946.49	5,818.91	127.58	46.610		
13,000.00	7,730.00	5,042.00	5,042.00	76.29	87.04	-53.14	-6,863.61	5,744.44	5,880.18	5,751.91	128.28	45.840		
13,100.00	7,730.00	5,042.00	5,042.00	77.78	87.04	-53.14	-6,863.61	5,744.44	5,814.84	5,685.80	129.04	45.063		
13,200.00	7,730.00	5,042.00	5,042.00	79.28	87.04	-53.14	-6,863.61	5,744.44	5,750.50	5,620.63	129.87	44.279		
13,300.00	7,730.00	5,042.00	5,042.00	80.79	87.04	-53.14	-6,863.61	5,744.44	5,687.18	5,556.41	130.77	43.490		
13,400.00	7,730.00	5,042.00	5,042.00	82.31	87.04	-53.14	-6,863.61	5,744.44	5,624.93	5,493.20	131.74	42.698		
13,500.00	7,730.00	5,042.00	5,042.00	83.84	87.04	-53.14	-6,863.61	5,744.44	5,563.79	5,431.02	132.77	41.905		
13,600.00	7,730.00	5,042.00	5,042.00	85.37	87.04	-53.14	-6,863.61	5,744.44	5,503.78	5,369.90	133.87	41.112		
13,700.00	7,730.00	5,042.00	5,042.00	86.92	87.04	-53.14	-6,863.61	5,744.44	5,444.94	5,309.90	135.04	40.321		
13,800.00	7,730.00	5,042.00	5,042.00	88.47	87.04	-53.14	-6,863.61	5,744.44	5,387.32	5,251.05	136.27	39.533		
13,900.00	7,730.00	5,042.00	5,042.00	90.03	87.04	-53.14	-6,863.61	5,744.44	5,330.95	5,193.38	137.57	38.751		
14,000.00	7,730.00	5,042.00	5,042.00	91.59	87.04	-53.14	-6,863.61	5,744.44	5,275.88	5,136.95	138.93	37.975		
14,100.00	7,730.00	5,042.00	5,042.00	93.16	87.04	-53.14	-6,863.61	5,744.44	5,222.14	5,081.79	140.35	37.207		
14,200.00	7,730.00	5,042.00	5,042.00	94.74	87.04	-53.14	-6,863.61	5,744.44	5,169.78	5,027.94	141.83	36.450		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	5,042.00	5,042.00	96.33	87.04	-53.14	-6,863.61	5,744.44	5,118.83	4,975.46	143.37	35.703		
14,400.00	7,730.00	5,042.00	5,042.00	97.92	87.04	-53.14	-6,863.61	5,744.44	5,069.34	4,924.38	144.97	34.969		
14,500.00	7,730.00	5,042.00	5,042.00	99.51	87.04	-53.14	-6,863.61	5,744.44	5,021.36	4,874.74	146.62	34.248		
14,600.00	7,730.00	5,042.00	5,042.00	101.11	87.04	-53.14	-6,863.61	5,744.44	4,974.93	4,826.61	148.32	33.542		
14,700.00	7,730.00	5,042.00	5,042.00	102.72	87.04	-53.14	-6,863.61	5,744.44	4,930.09	4,780.01	150.07	32.851		
14,800.00	7,730.00	5,042.00	5,042.00	104.33	87.04	-53.14	-6,863.61	5,744.44	4,886.88	4,735.01	151.87	32.177		
14,900.00	7,730.00	5,042.00	5,042.00	105.94	87.04	-53.14	-6,863.61	5,744.44	4,845.35	4,691.63	153.72	31.521		
15,000.00	7,730.00	5,042.00	5,042.00	107.56	87.04	-53.14	-6,863.61	5,744.44	4,805.55	4,649.94	155.60	30.883		
15,100.00	7,730.00	5,042.00	5,042.00	109.18	87.04	-53.14	-6,863.61	5,744.44	4,767.51	4,609.98	157.53	30.264		
15,200.00	7,730.00	5,042.00	5,042.00	110.81	87.04	-53.14	-6,863.61	5,744.44	4,731.27	4,571.78	159.49	29.664		
15,300.00	7,730.00	5,042.00	5,042.00	112.44	87.04	-53.14	-6,863.61	5,744.44	4,696.89	4,535.40	161.49	29.085		
15,400.00	7,730.00	5,042.00	5,042.00	114.08	87.04	-53.14	-6,863.61	5,744.44	4,664.40	4,500.89	163.51	28.526		
15,500.00	7,730.00	5,042.00	5,042.00	115.72	87.04	-53.14	-6,863.61	5,744.44	4,633.84	4,468.27	165.57	27.988		
15,600.00	7,730.00	5,042.00	5,042.00	117.36	87.04	-53.14	-6,863.61	5,744.44	4,605.25	4,437.61	167.64	27.471		
15,700.00	7,730.00	5,042.00	5,042.00	119.00	87.04	-53.14	-6,863.61	5,744.44	4,578.66	4,408.93	169.73	26.976		
15,800.00	7,730.00	5,042.00	5,042.00	120.65	87.04	-53.14	-6,863.61	5,744.44	4,554.12	4,382.27	171.84	26.502		
15,900.00	7,730.00	5,042.00	5,042.00	122.30	87.04	-53.14	-6,863.61	5,744.44	4,531.65	4,357.68	173.96	26.049		
16,000.00	7,730.00	5,042.00	5,042.00	123.96	87.04	-53.14	-6,863.61	5,744.44	4,511.28	4,335.19	176.09	25.619		
16,100.00	7,730.00	5,042.00	5,042.00	125.61	87.04	-53.14	-6,863.61	5,744.44	4,493.05	4,314.82	178.22	25.210		
16,200.00	7,730.00	5,042.00	5,042.00	127.27	87.04	-53.14	-6,863.61	5,744.44	4,476.98	4,296.62	180.36	24.823		
16,300.00	7,730.00	5,042.00	5,042.00	128.94	87.04	-53.14	-6,863.61	5,744.44	4,463.09	4,280.61	182.48	24.458		
16,400.00	7,730.00	5,042.00	5,042.00	130.60	87.04	-53.14	-6,863.61	5,744.44	4,451.40	4,266.80	184.60	24.114		
16,500.00	7,730.00	5,042.00	5,042.00	132.27	87.04	-53.14	-6,863.61	5,744.44	4,441.94	4,255.23	186.71	23.791		
16,600.00	7,730.00	5,042.00	5,042.00	133.94	87.04	-53.14	-6,863.61	5,744.44	4,434.71	4,245.92	188.80	23.489		
16,700.00	7,730.00	5,042.00	5,042.00	135.61	87.04	-53.14	-6,863.61	5,744.44	4,429.73	4,238.87	190.86	23.209		
16,800.00	7,730.00	5,042.00	5,042.00	137.28	87.04	-53.14	-6,863.61	5,744.44	4,427.00	4,234.10	192.91	22.949		
16,870.81	7,730.00	5,042.00	5,042.00	138.47	87.04	-53.14	-6,863.61	5,744.44	4,426.44	4,232.10	194.34	22.777 CC		
16,900.00	7,730.00	5,042.00	5,042.00	138.96	87.04	-53.14	-6,863.61	5,744.44	4,426.53	4,231.61	194.92	22.709		
17,000.00	7,730.00	5,042.00	5,042.00	140.64	87.04	-53.14	-6,863.61	5,744.44	4,428.32	4,231.42	196.90	22.490 ES		
17,100.00	7,730.00	5,042.00	5,042.00	142.32	87.04	-53.14	-6,863.61	5,744.44	4,432.37	4,233.52	198.85	22.290		
17,200.00	7,730.00	5,042.00	5,042.00	144.00	87.04	-53.14	-6,863.61	5,744.44	4,438.66	4,237.90	200.76	22.110		
17,300.00	7,730.00	5,042.00	5,042.00	145.69	87.04	-53.14	-6,863.61	5,744.44	4,447.19	4,244.57	202.62	21.948		
17,400.00	7,730.00	5,042.00	5,042.00	147.37	87.04	-53.14	-6,863.61	5,744.44	4,457.96	4,253.52	204.44	21.806		
17,500.00	7,730.00	5,042.00	5,042.00	149.06	87.04	-53.14	-6,863.61	5,744.44	4,470.93	4,264.72	206.21	21.681		
17,600.00	7,730.00	5,042.00	5,042.00	150.75	87.04	-53.14	-6,863.61	5,744.44	4,486.09	4,278.16	207.93	21.575		
17,700.00	7,730.00	5,042.00	5,042.00	152.44	87.04	-53.14	-6,863.61	5,744.44	4,503.43	4,293.83	209.60	21.486		
17,800.00	7,730.00	5,042.00	5,042.00	154.13	87.04	-53.14	-6,863.61	5,744.44	4,522.91	4,311.70	211.21	21.414		
17,900.00	7,730.00	5,042.00	5,042.00	155.83	87.04	-53.14	-6,863.61	5,744.44	4,544.51	4,331.74	212.77	21.359		
18,000.00	7,730.00	5,042.00	5,042.00	157.52	87.04	-53.14	-6,863.61	5,744.44	4,568.19	4,353.92	214.27	21.320		
18,100.00	7,730.00	5,042.00	5,042.00	159.22	87.04	-53.14	-6,863.61	5,744.44	4,593.93	4,378.22	215.72	21.296		
18,200.00	7,730.00	5,042.00	5,042.00	160.92	87.04	-53.14	-6,863.61	5,744.44	4,621.70	4,404.60	217.10	21.288 SF		
18,300.00	7,730.00	5,042.00	5,042.00	162.62	87.04	-53.14	-6,863.61	5,744.44	4,651.44	4,433.02	218.42	21.295		
18,400.00	7,730.00	5,042.00	5,042.00	164.32	87.04	-53.14	-6,863.61	5,744.44	4,683.13	4,463.45	219.69	21.317		
18,426.22	7,730.00	5,042.00	5,042.00	164.76	87.04	-53.14	-6,863.61	5,744.44	4,691.76	4,471.75	220.01	21.325		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	144.94	-8,182.34	5,741.95	9,996.09					
100.00	100.00	65.00	65.00	0.13	0.53	144.94	-8,182.34	5,741.95	9,996.03	9,995.36	0.67	N/A		
200.00	200.00	165.00	165.00	0.49	1.95	144.94	-8,182.34	5,741.95	9,996.03	9,993.58	2.45	4,083.900		
300.00	300.00	265.00	265.00	0.85	3.70	144.94	-8,182.34	5,741.95	9,996.03	9,991.48	4.55	2,196.221		
400.00	400.00	365.00	365.00	1.21	5.45	144.94	-8,182.34	5,741.95	9,996.03	9,989.38	6.66	1,501.972		
500.00	500.00	465.00	465.00	1.57	7.19	144.94	-8,182.34	5,741.95	9,996.03	9,987.27	8.76	1,141.221		
600.00	600.00	565.00	565.00	1.93	8.94	144.94	-8,182.34	5,741.95	9,996.03	9,985.17	10.86	920.202		
700.00	700.00	665.00	665.00	2.29	10.68	144.94	-8,182.34	5,741.95	9,996.03	9,983.06	12.97	770.902		
800.00	800.00	765.00	765.00	2.64	12.43	144.94	-8,182.34	5,741.95	9,996.03	9,980.96	15.07	663.286		
900.00	900.00	865.00	865.00	3.00	14.17	144.94	-8,182.34	5,741.95	9,996.03	9,978.86	17.17	582.035		
1,000.00	1,000.00	965.00	965.00	3.36	15.92	144.94	-8,182.34	5,741.95	9,996.03	9,976.75	19.28	518.518		
1,100.00	1,100.00	1,065.00	1,065.00	3.72	17.66	144.94	-8,182.34	5,741.95	9,996.03	9,974.65	21.38	467.500		
1,200.00	1,200.00	1,165.00	1,165.00	4.08	19.41	144.94	-8,182.34	5,741.95	9,996.03	9,972.55	23.49	425.622		
1,300.00	1,299.98	1,264.98	1,264.98	4.43	21.15	97.83	-8,182.34	5,741.95	9,996.27	9,970.68	25.59	390.688		
1,400.00	1,399.84	1,364.84	1,364.84	4.79	22.90	97.84	-8,182.34	5,741.95	9,996.98	9,969.30	27.68	361.117		
1,500.00	1,499.45	1,464.45	1,464.45	5.15	24.63	97.87	-8,182.34	5,741.95	9,998.18	9,968.40	29.78	335.733		
1,600.00	1,598.70	1,563.70	1,563.70	5.51	26.37	97.90	-8,182.34	5,741.95	9,999.86	9,967.99	31.88	313.695		
9,300.00	7,730.00	5,020.00	5,020.00	52.03	86.69	-52.95	-8,182.34	5,741.95	9,936.70	9,803.43	133.27	74.560		
9,400.00	7,730.00	5,020.00	5,020.00	51.65	86.69	-52.95	-8,182.34	5,741.95	9,847.34	9,714.49	132.85	74.123		
9,500.00	7,730.00	5,020.00	5,020.00	51.29	86.69	-52.95	-8,182.34	5,741.95	9,758.19	9,625.76	132.43	73.685		
9,600.00	7,730.00	5,020.00	5,020.00	50.95	86.69	-52.95	-8,182.34	5,741.95	9,669.25	9,537.24	132.01	73.245		
9,700.00	7,730.00	5,020.00	5,020.00	50.64	86.69	-52.95	-8,182.34	5,741.95	9,580.52	9,448.93	131.59	72.803		
9,800.00	7,730.00	5,020.00	5,020.00	50.35	86.69	-52.95	-8,182.34	5,741.95	9,492.02	9,360.84	131.18	72.358		
9,900.00	7,730.00	5,020.00	5,020.00	50.09	86.69	-52.95	-8,182.34	5,741.95	9,403.76	9,272.99	130.77	71.911		
10,000.00	7,730.00	5,020.00	5,020.00	49.86	86.69	-52.95	-8,182.34	5,741.95	9,315.72	9,185.36	130.36	71.460		
10,100.00	7,730.00	5,020.00	5,020.00	49.65	86.69	-52.95	-8,182.34	5,741.95	9,227.94	9,097.97	129.96	71.005		
10,200.00	7,730.00	5,020.00	5,020.00	49.48	86.69	-52.95	-8,182.34	5,741.95	9,140.40	9,010.83	129.56	70.547		
10,300.00	7,730.00	5,020.00	5,020.00	49.35	86.69	-52.95	-8,182.34	5,741.95	9,053.12	8,923.94	129.18	70.084		
10,400.00	7,730.00	5,020.00	5,020.00	49.27	86.69	-52.95	-8,182.34	5,741.95	8,966.11	8,837.31	128.79	69.617		
10,500.00	7,730.00	5,020.00	5,020.00	49.26	86.69	-52.95	-8,182.34	5,741.95	8,879.37	8,750.95	128.42	69.144		
10,600.00	7,730.00	5,020.00	5,020.00	49.32	86.69	-52.95	-8,182.34	5,741.95	8,792.91	8,664.86	128.05	68.665		
10,700.00	7,730.00	5,020.00	5,020.00	49.51	86.69	-52.95	-8,182.34	5,741.95	8,706.74	8,579.04	127.70	68.181		
10,800.00	7,730.00	5,020.00	5,020.00	49.83	86.69	-52.95	-8,182.34	5,741.95	8,620.87	8,493.51	127.36	67.689		
10,900.00	7,730.00	5,020.00	5,020.00	50.31	86.69	-52.95	-8,182.34	5,741.95	8,535.31	8,408.28	127.03	67.191		
11,000.00	7,730.00	5,020.00	5,020.00	50.96	86.69	-52.95	-8,182.34	5,741.95	8,450.07	8,323.35	126.72	66.684		
11,100.00	7,730.00	5,020.00	5,020.00	51.75	86.69	-52.95	-8,182.34	5,741.95	8,365.15	8,238.73	126.42	66.169		
11,200.00	7,730.00	5,020.00	5,020.00	52.66	86.69	-52.95	-8,182.34	5,741.95	8,280.57	8,154.43	126.14	65.645		
11,300.00	7,730.00	5,020.00	5,020.00	53.67	86.69	-52.95	-8,182.34	5,741.95	8,196.33	8,070.45	125.88	65.112		
11,400.00	7,730.00	5,020.00	5,020.00	54.75	86.69	-52.95	-8,182.34	5,741.95	8,112.46	7,986.82	125.64	64.568		
11,500.00	7,730.00	5,020.00	5,020.00	55.89	86.69	-52.95	-8,182.34	5,741.95	8,028.95	7,903.53	125.43	64.013		
11,600.00	7,730.00	5,020.00	5,020.00	57.07	86.69	-52.95	-8,182.34	5,741.95	7,945.83	7,820.59	125.24	63.446		
11,700.00	7,730.00	5,020.00	5,020.00	58.30	86.69	-52.95	-8,182.34	5,741.95	7,863.10	7,738.02	125.07	62.868		
11,800.00	7,730.00	5,020.00	5,020.00	59.55	86.69	-52.95	-8,182.34	5,741.95	7,780.77	7,655.83	124.94	62.277		
11,900.00	7,730.00	5,020.00	5,020.00	60.84	86.69	-52.95	-8,182.34	5,741.95	7,698.86	7,574.03	124.83	61.672		
12,000.00	7,730.00	5,020.00	5,020.00	62.15	86.69	-52.95	-8,182.34	5,741.95	7,617.38	7,492.62	124.76	61.054		
12,100.00	7,730.00	5,020.00	5,020.00	63.49	86.69	-52.95	-8,182.34	5,741.95	7,536.35	7,411.62	124.73	60.422		
12,200.00	7,730.00	5,020.00	5,020.00	64.85	86.69	-52.95	-8,182.34	5,741.95	7,455.78	7,331.05	124.73	59.775		
12,300.00	7,730.00	5,020.00	5,020.00	66.22	86.69	-52.95	-8,182.34	5,741.95	7,375.69	7,250.92	124.77	59.113		
12,400.00	7,730.00	5,020.00	5,020.00	67.62	86.69	-52.95	-8,182.34	5,741.95	7,296.09	7,171.23	124.86	58.436		
12,500.00	7,730.00	5,020.00	5,020.00	69.03	86.69	-52.95	-8,182.34	5,741.95	7,216.99	7,092.01	124.98	57.745		
12,600.00	7,730.00	5,020.00	5,020.00	70.45	86.69	-52.95	-8,182.34	5,741.95	7,138.42	7,013.27	125.15	57.038		
12,700.00	7,730.00	5,020.00	5,020.00	71.90	86.69	-52.95	-8,182.34	5,741.95	7,060.40	6,935.02	125.37	56.315		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
12,800.00	7,730.00	5,020.00	5,020.00	73.35	86.69	-52.95	-8,182.34	5,741.95	6,982.93	6,857.29	125.64	55.579		
12,900.00	7,730.00	5,020.00	5,020.00	74.81	86.69	-52.95	-8,182.34	5,741.95	6,906.04	6,780.08	125.96	54.827		
13,000.00	7,730.00	5,020.00	5,020.00	76.29	86.69	-52.95	-8,182.34	5,741.95	6,829.75	6,703.42	126.33	54.062		
13,100.00	7,730.00	5,020.00	5,020.00	77.78	86.69	-52.95	-8,182.34	5,741.95	6,754.08	6,627.32	126.76	53.283		
13,200.00	7,730.00	5,020.00	5,020.00	79.28	86.69	-52.95	-8,182.34	5,741.95	6,679.04	6,551.80	127.24	52.492		
13,300.00	7,730.00	5,020.00	5,020.00	80.79	86.69	-52.95	-8,182.34	5,741.95	6,604.67	6,476.90	127.78	51.689		
13,400.00	7,730.00	5,020.00	5,020.00	82.31	86.69	-52.95	-8,182.34	5,741.95	6,530.99	6,402.62	128.37	50.875		
13,500.00	7,730.00	5,020.00	5,020.00	83.84	86.69	-52.95	-8,182.34	5,741.95	6,458.01	6,328.98	129.03	50.051		
13,600.00	7,730.00	5,020.00	5,020.00	85.37	86.69	-52.95	-8,182.34	5,741.95	6,385.77	6,256.02	129.74	49.219		
13,700.00	7,730.00	5,020.00	5,020.00	86.92	86.69	-52.95	-8,182.34	5,741.95	6,314.28	6,183.76	130.52	48.379		
13,800.00	7,730.00	5,020.00	5,020.00	88.47	86.69	-52.95	-8,182.34	5,741.95	6,243.57	6,112.22	131.35	47.533		
13,900.00	7,730.00	5,020.00	5,020.00	90.03	86.69	-52.95	-8,182.34	5,741.95	6,173.68	6,041.43	132.25	46.683		
14,000.00	7,730.00	5,020.00	5,020.00	91.59	86.69	-52.95	-8,182.34	5,741.95	6,104.62	5,971.41	133.20	45.829		
14,100.00	7,730.00	5,020.00	5,020.00	93.16	86.69	-52.95	-8,182.34	5,741.95	6,036.43	5,902.21	134.22	44.974		
14,200.00	7,730.00	5,020.00	5,020.00	94.74	86.69	-52.95	-8,182.34	5,741.95	5,969.13	5,833.83	135.30	44.118		
14,300.00	7,730.00	5,020.00	5,020.00	96.33	86.69	-52.95	-8,182.34	5,741.95	5,902.77	5,766.33	136.44	43.263		
14,400.00	7,730.00	5,020.00	5,020.00	97.92	86.69	-52.95	-8,182.34	5,741.95	5,837.36	5,699.72	137.64	42.410		
14,500.00	7,730.00	5,020.00	5,020.00	99.51	86.69	-52.95	-8,182.34	5,741.95	5,772.94	5,634.04	138.90	41.562		
14,600.00	7,730.00	5,020.00	5,020.00	101.11	86.69	-52.95	-8,182.34	5,741.95	5,709.55	5,569.33	140.22	40.718		
14,700.00	7,730.00	5,020.00	5,020.00	102.72	86.69	-52.95	-8,182.34	5,741.95	5,647.21	5,505.61	141.60	39.882		
14,800.00	7,730.00	5,020.00	5,020.00	104.33	86.69	-52.95	-8,182.34	5,741.95	5,585.97	5,442.94	143.04	39.053		
14,900.00	7,730.00	5,020.00	5,020.00	105.94	86.69	-52.95	-8,182.34	5,741.95	5,525.87	5,381.34	144.53	38.233		
15,000.00	7,730.00	5,020.00	5,020.00	107.56	86.69	-52.95	-8,182.34	5,741.95	5,466.93	5,320.85	146.08	37.424		
15,100.00	7,730.00	5,020.00	5,020.00	109.18	86.69	-52.95	-8,182.34	5,741.95	5,409.19	5,261.51	147.69	36.626		
15,200.00	7,730.00	5,020.00	5,020.00	110.81	86.69	-52.95	-8,182.34	5,741.95	5,352.71	5,203.36	149.35	35.841		
15,300.00	7,730.00	5,020.00	5,020.00	112.44	86.69	-52.95	-8,182.34	5,741.95	5,297.51	5,146.45	151.06	35.069		
15,400.00	7,730.00	5,020.00	5,020.00	114.08	86.69	-52.95	-8,182.34	5,741.95	5,243.63	5,090.81	152.82	34.312		
15,500.00	7,730.00	5,020.00	5,020.00	115.72	86.69	-52.95	-8,182.34	5,741.95	5,191.12	5,036.49	154.63	33.570		
15,600.00	7,730.00	5,020.00	5,020.00	117.36	86.69	-52.95	-8,182.34	5,741.95	5,140.02	4,983.53	156.49	32.845		
15,700.00	7,730.00	5,020.00	5,020.00	119.00	86.69	-52.95	-8,182.34	5,741.95	5,090.38	4,931.97	158.40	32.136		
15,800.00	7,730.00	5,020.00	5,020.00	120.65	86.69	-52.95	-8,182.34	5,741.95	5,042.22	4,881.87	160.35	31.445		
15,900.00	7,730.00	5,020.00	5,020.00	122.30	86.69	-52.95	-8,182.34	5,741.95	4,995.61	4,833.26	162.35	30.771		
16,000.00	7,730.00	5,020.00	5,020.00	123.96	86.69	-52.95	-8,182.34	5,741.95	4,950.58	4,786.20	164.38	30.117		
16,100.00	7,730.00	5,020.00	5,020.00	125.61	86.69	-52.95	-8,182.34	5,741.95	4,907.17	4,740.72	166.45	29.482		
16,200.00	7,730.00	5,020.00	5,020.00	127.27	86.69	-52.95	-8,182.34	5,741.95	4,865.43	4,696.87	168.55	28.866		
16,300.00	7,730.00	5,020.00	5,020.00	128.94	86.69	-52.95	-8,182.34	5,741.95	4,825.40	4,654.71	170.69	28.270		
16,400.00	7,730.00	5,020.00	5,020.00	130.60	86.69	-52.95	-8,182.34	5,741.95	4,787.13	4,614.27	172.86	27.694		
16,500.00	7,730.00	5,020.00	5,020.00	132.27	86.69	-52.95	-8,182.34	5,741.95	4,750.65	4,575.60	175.05	27.139		
16,600.00	7,730.00	5,020.00	5,020.00	133.94	86.69	-52.95	-8,182.34	5,741.95	4,716.01	4,538.75	177.26	26.605		
16,700.00	7,730.00	5,020.00	5,020.00	135.61	86.69	-52.95	-8,182.34	5,741.95	4,683.25	4,503.76	179.50	26.091		
16,800.00	7,730.00	5,020.00	5,020.00	137.28	86.69	-52.95	-8,182.34	5,741.95	4,652.41	4,470.67	181.75	25.598		
16,900.00	7,730.00	5,020.00	5,020.00	138.96	86.69	-52.95	-8,182.34	5,741.95	4,623.53	4,439.52	184.01	25.127		
17,000.00	7,730.00	5,020.00	5,020.00	140.64	86.69	-52.95	-8,182.34	5,741.95	4,596.64	4,410.36	186.28	24.676		
17,100.00	7,730.00	5,020.00	5,020.00	142.32	86.69	-52.95	-8,182.34	5,741.95	4,571.78	4,383.23	188.55	24.247		
17,200.00	7,730.00	5,020.00	5,020.00	144.00	86.69	-52.95	-8,182.34	5,741.95	4,548.99	4,358.16	190.83	23.838		
17,300.00	7,730.00	5,020.00	5,020.00	145.69	86.69	-52.95	-8,182.34	5,741.95	4,528.29	4,335.18	193.10	23.450		
17,400.00	7,730.00	5,020.00	5,020.00	147.37	86.69	-52.95	-8,182.34	5,741.95	4,509.71	4,314.34	195.37	23.083		
17,500.00	7,730.00	5,020.00	5,020.00	149.06	86.69	-52.95	-8,182.34	5,741.95	4,493.28	4,295.66	197.62	22.737		
17,600.00	7,730.00	5,020.00	5,020.00	150.75	86.69	-52.95	-8,182.34	5,741.95	4,479.03	4,279.16	199.86	22.411		
17,700.00	7,730.00	5,020.00	5,020.00	152.44	86.69	-52.95	-8,182.34	5,741.95	4,466.96	4,264.88	202.08	22.105		
17,800.00	7,730.00	5,020.00	5,020.00	154.13	86.69	-52.95	-8,182.34	5,741.95	4,457.11	4,252.84	204.27	21.819		
17,900.00	7,730.00	5,020.00	5,020.00	155.83	86.69	-52.95	-8,182.34	5,741.95	4,449.49	4,243.05	206.44	21.554		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,000.00	7,730.00	5,020.00	5,020.00	157.52	86.69	-52.95	-8,182.34	5,741.95	4,444.10	4,235.53	208.57	21.307	
18,100.00	7,730.00	5,020.00	5,020.00	159.22	86.69	-52.95	-8,182.34	5,741.95	4,440.96	4,230.29	210.67	21.080	
18,189.54	7,730.00	5,020.00	5,020.00	160.74	86.69	-52.95	-8,182.34	5,741.95	4,440.06	4,227.54	212.51	20.893 CC	
18,200.00	7,730.00	5,020.00	5,020.00	160.92	86.69	-52.95	-8,182.34	5,741.95	4,440.07	4,227.34	212.73	20.872	
18,300.00	7,730.00	5,020.00	5,020.00	162.62	86.69	-52.95	-8,182.34	5,741.95	4,441.43	4,226.69	214.74	20.683 ES	
18,400.00	7,730.00	5,020.00	5,020.00	164.32	86.69	-52.95	-8,182.34	5,741.95	4,445.04	4,228.33	216.71	20.511	
18,426.22	7,730.00	5,020.00	5,020.00	164.76	86.69	-52.95	-8,182.34	5,741.95	4,446.36	4,229.14	217.22	20.470 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	161.72	-5,565.89	1,838.91	5,861.89					
100.00	100.00	69.00	69.00	0.13	0.56	161.72	-5,565.89	1,838.91	5,861.80	5,861.11	0.69	8,441.338		
200.00	200.00	169.00	169.00	0.49	2.02	161.72	-5,565.89	1,838.91	5,861.80	5,859.30	2.51	2,336.539		
300.00	300.00	269.00	269.00	0.85	3.76	161.72	-5,565.89	1,838.91	5,861.80	5,857.19	4.61	1,270.837		
400.00	400.00	369.00	369.00	1.21	5.51	161.72	-5,565.89	1,838.91	5,861.80	5,855.09	6.72	872.766		
500.00	500.00	469.00	469.00	1.57	7.25	161.72	-5,565.89	1,838.91	5,861.80	5,852.98	8.82	664.592		
600.00	600.00	569.00	569.00	1.93	9.00	161.72	-5,565.89	1,838.91	5,861.80	5,850.88	10.92	536.601		
700.00	700.00	669.00	669.00	2.29	10.74	161.72	-5,565.89	1,838.91	5,861.80	5,848.78	13.03	449.947		
800.00	800.00	769.00	769.00	2.64	12.49	161.72	-5,565.89	1,838.91	5,861.80	5,846.67	15.13	387.389		
900.00	900.00	869.00	869.00	3.00	14.23	161.72	-5,565.89	1,838.91	5,861.80	5,844.57	17.24	340.103		
1,000.00	1,000.00	969.00	969.00	3.36	15.98	161.72	-5,565.89	1,838.91	5,861.80	5,842.47	19.34	303.105		
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	161.72	-5,565.89	1,838.91	5,861.80	5,840.36	21.44	273.367		
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	161.72	-5,565.89	1,838.91	5,861.80	5,838.26	23.55	248.943		
1,300.00	1,299.98	1,268.98	1,268.98	4.43	21.21	114.60	-5,565.89	1,838.91	5,862.53	5,836.88	25.65	228.580		
1,400.00	1,399.84	1,368.84	1,368.84	4.79	22.96	114.61	-5,565.89	1,838.91	5,864.71	5,836.97	27.75	211.376		
1,500.00	1,499.45	1,468.45	1,468.45	5.15	24.70	114.62	-5,565.89	1,838.91	5,868.35	5,838.51	29.84	196.644		
1,600.00	1,598.70	1,567.70	1,567.70	5.51	26.43	114.63	-5,565.89	1,838.91	5,873.46	5,841.52	31.94	183.892		
1,700.00	1,697.47	1,666.47	1,666.47	5.89	28.15	114.65	-5,565.89	1,838.91	5,880.05	5,846.01	34.04	172.748		
1,800.00	1,795.62	1,764.62	1,764.62	6.28	29.86	114.67	-5,565.89	1,838.91	5,888.14	5,852.00	36.14	162.926		
1,900.00	1,893.06	1,862.06	1,862.06	6.69	31.57	114.69	-5,565.89	1,838.91	5,897.73	5,859.48	38.25	154.201		
2,000.00	1,989.64	1,958.64	1,958.64	7.13	33.25	114.70	-5,565.89	1,838.91	5,908.86	5,868.50	40.36	146.398		
2,100.00	2,085.27	2,054.27	2,054.27	7.61	34.92	114.72	-5,565.89	1,838.91	5,921.54	5,879.05	42.49	139.377		
2,200.00	2,179.82	2,148.82	2,148.82	8.12	36.57	114.73	-5,565.89	1,838.91	5,935.79	5,891.17	44.62	133.026		
2,300.00	2,273.17	2,242.17	2,242.17	8.67	38.20	114.74	-5,565.89	1,838.91	5,951.65	5,904.88	46.77	127.253		
2,400.00	2,365.21	2,334.21	2,334.21	9.27	39.81	114.73	-5,565.89	1,838.91	5,969.14	5,920.21	48.93	121.985		
2,500.00	2,455.84	2,424.84	2,424.84	9.92	41.39	114.72	-5,565.89	1,838.91	5,988.29	5,937.17	51.11	117.161		
2,580.62	2,527.80	2,503.20	2,496.80	10.49	42.76	114.70	-5,565.89	1,838.91	6,004.95	5,951.96	52.99	113.321		
2,600.00	2,544.97	2,513.97	2,513.97	10.63	42.94	114.77	-5,565.89	1,838.91	6,009.09	5,955.78	53.31	112.730		
2,700.00	2,633.58	2,602.58	2,602.58	11.37	44.49	115.13	-5,565.89	1,838.91	6,030.63	5,975.12	55.52	108.630		
2,800.00	2,722.19	2,708.81	2,691.19	12.13	46.34	115.49	-5,565.89	1,838.91	6,052.46	5,994.41	58.05	104.264		
2,900.00	2,810.80	2,779.80	2,779.80	12.91	47.58	115.85	-5,565.89	1,838.91	6,074.55	6,014.57	59.98	101.275		
3,000.00	2,899.41	2,868.41	2,868.41	13.71	49.13	116.21	-5,565.89	1,838.91	6,096.93	6,034.70	62.23	97.975		
3,100.00	2,988.02	2,957.02	2,957.02	14.52	50.68	116.56	-5,565.89	1,838.91	6,119.56	6,055.08	64.49	94.898		
3,200.00	3,076.63	3,045.63	3,045.63	15.34	52.22	116.91	-5,565.89	1,838.91	6,142.47	6,075.72	66.75	92.026		
3,300.00	3,165.24	3,134.24	3,134.24	16.16	53.77	117.26	-5,565.89	1,838.91	6,165.64	6,096.63	69.01	89.340		
3,400.00	3,253.85	3,222.85	3,222.85	17.00	55.32	117.61	-5,565.89	1,838.91	6,189.07	6,117.79	71.28	86.825		
3,500.00	3,342.46	3,311.46	3,311.46	17.84	56.86	117.96	-5,565.89	1,838.91	6,212.76	6,139.20	73.55	84.466		
3,600.00	3,431.07	3,400.07	3,400.07	18.69	58.41	118.30	-5,565.89	1,838.91	6,236.70	6,160.87	75.83	82.251		
3,700.00	3,519.68	3,488.68	3,488.68	19.55	59.96	118.64	-5,565.89	1,838.91	6,260.89	6,182.79	78.10	80.168		
3,800.00	3,608.29	3,577.29	3,577.29	20.40	61.50	118.98	-5,565.89	1,838.91	6,285.33	6,204.96	80.37	78.205		
3,900.00	3,696.90	3,665.90	3,665.90	21.26	63.05	119.32	-5,565.89	1,838.91	6,310.02	6,227.38	82.64	76.354		
4,000.00	3,785.51	3,754.51	3,754.51	22.13	64.59	119.65	-5,565.89	1,838.91	6,334.95	6,250.04	84.91	74.606		
4,100.00	3,874.12	3,843.12	3,843.12	23.00	66.14	119.98	-5,565.89	1,838.91	6,360.12	6,272.94	87.18	72.953		
4,200.00	3,962.73	3,931.73	3,931.73	23.87	67.69	120.31	-5,565.89	1,838.91	6,385.53	6,296.08	89.45	71.388		
4,300.00	4,051.34	4,020.34	4,020.34	24.74	69.23	120.64	-5,565.89	1,838.91	6,411.17	6,319.46	91.71	69.904		
4,400.00	4,139.95	4,108.95	4,108.95	25.62	70.78	120.97	-5,565.89	1,838.91	6,437.05	6,343.07	93.98	68.496		
4,500.00	4,228.56	4,202.44	4,197.56	26.49	72.41	121.29	-5,565.89	1,838.91	6,463.15	6,366.82	96.32	67.099		
4,600.00	4,317.17	4,286.17	4,286.17	27.37	73.87	121.61	-5,565.89	1,838.91	6,489.48	6,390.98	98.50	65.885		
4,700.00	4,405.78	4,374.78	4,374.78	28.25	75.42	121.93	-5,565.89	1,838.91	6,516.03	6,415.28	100.75	64.674		
4,800.00	4,494.39	4,463.39	4,463.39	29.13	76.97	122.25	-5,565.89	1,838.91	6,542.80	6,439.80	103.00	63.519		
4,900.00	4,583.00	4,552.00	4,552.00	30.02	78.51	122.56	-5,565.89	1,838.91	6,569.79	6,464.54	105.25	62.418		
5,000.00	4,671.61	4,640.61	4,640.61	30.90	80.06	122.87	-5,565.89	1,838.91	6,597.00	6,489.49	107.50	61.367		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	4,729.22	4,729.22	31.79	81.61	123.18	-5,565.89	1,838.91	6,624.41	6,514.67	109.75	60.362		
5,200.00	4,848.83	4,817.83	4,817.83	32.67	83.15	123.49	-5,565.89	1,838.91	6,652.04	6,540.06	111.99	59.401		
5,300.00	4,937.44	4,906.44	4,906.44	33.56	84.70	123.80	-5,565.89	1,838.91	6,679.88	6,565.65	114.22	58.481		
5,400.00	5,026.05	5,004.95	4,995.05	34.45	86.42	124.10	-5,565.89	1,838.91	6,707.92	6,591.29	116.63	57.514		
5,500.00	5,114.66	5,083.66	5,083.66	35.34	87.79	124.40	-5,565.89	1,838.91	6,736.16	6,617.47	118.69	56.755		
5,600.00	5,203.27	5,125.00	5,125.00	36.23	88.51	124.54	-5,565.89	1,838.91	6,764.77	6,644.70	120.07	56.341		
5,700.00	5,291.88	5,125.00	5,125.00	37.12	88.51	124.54	-5,565.89	1,838.91	6,794.60	6,673.92	120.68	56.301		
5,800.00	5,380.50	5,125.00	5,125.00	38.01	88.51	124.54	-5,565.89	1,838.91	6,825.77	6,704.49	121.28	56.283		
5,900.00	5,469.11	5,125.00	5,125.00	38.90	88.51	124.54	-5,565.89	1,838.91	6,858.25	6,736.41	121.84	56.287		
6,000.00	5,557.72	5,125.00	5,125.00	39.79	88.51	124.54	-5,565.89	1,838.91	6,892.03	6,769.65	122.39	56.313		
6,100.00	5,646.33	5,125.00	5,125.00	40.68	88.51	124.54	-5,565.89	1,838.91	6,927.10	6,804.19	122.91	56.360		
6,200.00	5,734.94	5,125.00	5,125.00	41.58	88.51	124.54	-5,565.89	1,838.91	6,963.42	6,840.01	123.40	56.428		
6,300.00	5,823.55	5,125.00	5,125.00	42.47	88.51	124.54	-5,565.89	1,838.91	7,000.98	6,877.10	123.88	56.516		
6,400.00	5,912.16	5,125.00	5,125.00	43.36	88.51	124.54	-5,565.89	1,838.91	7,039.76	6,915.43	124.33	56.623		
6,500.00	6,000.77	5,125.00	5,125.00	44.26	88.51	124.54	-5,565.89	1,838.91	7,079.74	6,954.98	124.76	56.748		
6,600.00	6,089.38	5,125.00	5,125.00	45.15	88.51	124.54	-5,565.89	1,838.91	7,120.90	6,995.74	125.16	56.893		
6,700.00	6,177.99	5,125.00	5,125.00	46.05	88.51	124.54	-5,565.89	1,838.91	7,163.22	7,037.67	125.55	57.055		
6,800.00	6,266.60	5,125.00	5,125.00	46.94	88.51	124.54	-5,565.89	1,838.91	7,206.68	7,080.76	125.92	57.234		
6,900.00	6,355.21	5,125.00	5,125.00	47.84	88.51	124.54	-5,565.89	1,838.91	7,251.26	7,125.00	126.26	57.430		
7,000.00	6,443.82	5,125.00	5,125.00	48.74	88.51	124.54	-5,565.89	1,838.91	7,296.94	7,170.35	126.59	57.643		
7,100.00	6,532.43	5,125.00	5,125.00	49.63	88.51	124.54	-5,565.89	1,838.91	7,343.69	7,216.79	126.90	57.871		
7,200.00	6,621.04	5,125.00	5,125.00	50.53	88.51	124.54	-5,565.89	1,838.91	7,391.50	7,264.32	127.19	58.115		
7,300.00	6,709.65	5,125.00	5,125.00	51.42	88.51	124.54	-5,565.89	1,838.91	7,440.35	7,312.89	127.46	58.374		
7,400.00	6,798.26	5,125.00	5,125.00	52.32	88.51	124.54	-5,565.89	1,838.91	7,490.22	7,362.50	127.71	58.648		
7,500.00	6,886.87	5,125.00	5,125.00	53.22	88.51	124.54	-5,565.89	1,838.91	7,541.08	7,413.12	127.95	58.936		
7,600.00	6,975.48	5,125.00	5,125.00	54.12	88.51	124.54	-5,565.89	1,838.91	7,592.92	7,464.74	128.18	59.238		
7,656.30	7,025.36	5,125.00	5,125.00	54.62	88.51	124.54	-5,565.89	1,838.91	7,622.52	7,494.22	128.30	59.413		
7,700.00	7,064.54	5,125.00	5,125.00	55.00	88.51	117.61	-5,565.89	1,838.91	7,644.28	7,515.90	128.38	59.543		
7,750.00	7,110.29	5,125.00	5,125.00	55.40	88.51	107.77	-5,565.89	1,838.91	7,665.81	7,537.35	128.47	59.671		
7,800.00	7,156.67	5,125.00	5,125.00	55.75	88.51	96.03	-5,565.89	1,838.91	7,683.63	7,555.08	128.54	59.775		
7,850.00	7,203.34	5,125.00	5,125.00	56.05	88.51	83.19	-5,565.89	1,838.91	7,697.61	7,569.01	128.60	59.858		
7,900.00	7,249.95	5,125.00	5,125.00	56.30	88.51	70.57	-5,565.89	1,838.91	7,707.67	7,579.04	128.63	59.920		
7,950.00	7,296.14	5,125.00	5,125.00	56.50	88.51	59.35	-5,565.89	1,838.91	7,713.77	7,585.12	128.64	59.962		
8,000.00	7,341.56	5,125.00	5,125.00	56.64	88.51	50.06	-5,565.89	1,838.91	7,715.85	7,587.21	128.63	59.984		
8,050.00	7,385.86	5,125.00	5,125.00	56.74	88.51	42.66	-5,565.89	1,838.91	7,713.90	7,585.30	128.60	59.986		
8,100.00	7,428.71	5,125.00	5,125.00	56.79	88.51	36.83	-5,565.89	1,838.91	7,707.94	7,579.40	128.54	59.967		
8,150.00	7,469.77	5,125.00	5,125.00	56.80	88.51	32.23	-5,565.89	1,838.91	7,698.00	7,569.55	128.46	59.926		
8,200.00	7,508.75	5,125.00	5,125.00	56.77	88.51	28.56	-5,565.89	1,838.91	7,684.15	7,555.79	128.36	59.864		
8,250.00	7,545.33	5,125.00	5,125.00	56.70	88.51	25.58	-5,565.89	1,838.91	7,666.47	7,538.22	128.25	59.779		
8,300.00	7,579.25	5,125.00	5,125.00	56.59	88.51	23.14	-5,565.89	1,838.91	7,645.06	7,516.94	128.12	59.672		
8,350.00	7,610.24	5,125.00	5,125.00	56.45	88.51	21.09	-5,565.89	1,838.91	7,620.05	7,492.08	127.98	59.542		
8,400.00	7,638.06	5,125.00	5,125.00	56.28	88.51	19.32	-5,565.89	1,838.91	7,591.62	7,463.79	127.83	59.390		
8,450.00	7,662.52	5,125.00	5,125.00	56.09	88.51	17.77	-5,565.89	1,838.91	7,559.92	7,432.25	127.67	59.214		
8,500.00	7,683.41	5,125.00	5,125.00	55.88	88.51	16.35	-5,565.89	1,838.91	7,525.18	7,397.66	127.51	59.016		
8,550.00	7,700.59	5,125.00	5,125.00	55.64	88.51	14.99	-5,565.89	1,838.91	7,487.60	7,360.24	127.35	58.795		
8,600.00	7,713.91	5,125.00	5,125.00	55.39	88.51	13.60	-5,565.89	1,838.91	7,447.43	7,320.24	127.19	58.552		
8,650.00	7,723.29	5,125.00	5,125.00	55.14	88.51	12.06	-5,565.89	1,838.91	7,404.95	7,277.90	127.04	58.287		
8,700.00	7,728.64	5,125.00	5,125.00	54.87	88.51	10.18	-5,565.89	1,838.91	7,360.43	7,233.53	126.90	58.002		
8,740.83	7,730.00	5,125.00	5,125.00	54.65	88.51	8.14	-5,565.89	1,838.91	7,322.78	7,195.98	126.79	57.754		
8,800.00	7,730.00	5,125.00	5,125.00	54.33	88.51	8.14	-5,565.89	1,838.91	7,267.49	7,140.85	126.64	57.388		
8,900.00	7,730.00	5,125.00	5,125.00	53.82	88.51	8.14	-5,565.89	1,838.91	7,174.20	7,047.83	126.37	56.772		
9,000.00	7,730.00	5,125.00	5,125.00	53.33	88.51	8.14	-5,565.89	1,838.91	7,081.09	6,955.00	126.09	56.157		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,125.00	5,125.00	52.87	88.51	8.14	-5,565.89	1,838.91	6,988.18	6,862.36	125.81	55.544		
9,200.00	7,730.00	5,125.00	5,125.00	52.44	88.51	8.14	-5,565.89	1,838.91	6,895.46	6,769.93	125.53	54.932		
9,300.00	7,730.00	5,125.00	5,125.00	52.03	88.51	8.14	-5,565.89	1,838.91	6,802.94	6,677.71	125.23	54.323		
9,400.00	7,730.00	5,125.00	5,125.00	51.65	88.51	8.14	-5,565.89	1,838.91	6,710.64	6,585.72	124.93	53.716		
9,500.00	7,730.00	5,125.00	5,125.00	51.29	88.51	8.14	-5,565.89	1,838.91	6,618.57	6,493.95	124.62	53.110		
9,600.00	7,730.00	5,125.00	5,125.00	50.95	88.51	8.14	-5,565.89	1,838.91	6,526.73	6,402.43	124.30	52.507		
9,700.00	7,730.00	5,125.00	5,125.00	50.64	88.51	8.14	-5,565.89	1,838.91	6,435.13	6,311.15	123.98	51.906		
9,800.00	7,730.00	5,125.00	5,125.00	50.35	88.51	8.14	-5,565.89	1,838.91	6,343.79	6,220.14	123.64	51.308		
9,900.00	7,730.00	5,125.00	5,125.00	50.09	88.51	8.14	-5,565.89	1,838.91	6,252.71	6,129.41	123.30	50.712		
10,000.00	7,730.00	5,125.00	5,125.00	49.86	88.51	8.14	-5,565.89	1,838.91	6,161.90	6,038.96	122.95	50.118		
10,100.00	7,730.00	5,125.00	5,125.00	49.65	88.51	8.14	-5,565.89	1,838.91	6,071.39	5,948.80	122.59	49.527		
10,200.00	7,730.00	5,125.00	5,125.00	49.48	88.51	8.14	-5,565.89	1,838.91	5,981.18	5,858.96	122.22	48.939		
10,300.00	7,730.00	5,125.00	5,125.00	49.35	88.51	8.14	-5,565.89	1,838.91	5,891.28	5,769.45	121.84	48.354		
10,400.00	7,730.00	5,125.00	5,125.00	49.27	88.51	8.14	-5,565.89	1,838.91	5,801.72	5,680.27	121.45	47.772		
10,500.00	7,730.00	5,125.00	5,125.00	49.26	88.51	8.14	-5,565.89	1,838.91	5,712.50	5,591.45	121.04	47.193		
10,600.00	7,730.00	5,125.00	5,125.00	49.32	88.51	8.14	-5,565.89	1,838.91	5,623.64	5,503.01	120.63	46.618		
10,700.00	7,730.00	5,125.00	5,125.00	49.51	88.51	8.14	-5,565.89	1,838.91	5,535.17	5,414.96	120.21	46.046		
10,800.00	7,730.00	5,125.00	5,125.00	49.83	88.51	8.14	-5,565.89	1,838.91	5,447.09	5,327.31	119.78	45.478		
10,900.00	7,730.00	5,125.00	5,125.00	50.31	88.51	8.14	-5,565.89	1,838.91	5,359.43	5,240.10	119.33	44.913		
11,000.00	7,730.00	5,125.00	5,125.00	50.96	88.51	8.14	-5,565.89	1,838.91	5,272.21	5,153.34	118.87	44.352		
11,100.00	7,730.00	5,125.00	5,125.00	51.75	88.51	8.14	-5,565.89	1,838.91	5,185.45	5,067.05	118.40	43.796		
11,200.00	7,730.00	5,125.00	5,125.00	52.66	88.51	8.14	-5,565.89	1,838.91	5,099.18	4,981.26	117.92	43.244		
11,300.00	7,730.00	5,125.00	5,125.00	53.67	88.51	8.14	-5,565.89	1,838.91	5,013.42	4,896.00	117.42	42.696		
11,400.00	7,730.00	5,125.00	5,125.00	54.75	88.51	8.14	-5,565.89	1,838.91	4,928.19	4,811.28	116.91	42.153		
11,500.00	7,730.00	5,125.00	5,125.00	55.89	88.51	8.14	-5,565.89	1,838.91	4,843.53	4,727.14	116.39	41.615		
11,600.00	7,730.00	5,125.00	5,125.00	57.07	88.51	8.14	-5,565.89	1,838.91	4,759.47	4,643.62	115.85	41.083		
11,700.00	7,730.00	5,125.00	5,125.00	58.30	88.51	8.14	-5,565.89	1,838.91	4,676.03	4,560.73	115.30	40.556		
11,800.00	7,730.00	5,125.00	5,125.00	59.55	88.51	8.14	-5,565.89	1,838.91	4,593.25	4,478.52	114.73	40.034		
11,900.00	7,730.00	5,125.00	5,125.00	60.84	88.51	8.14	-5,565.89	1,838.91	4,511.17	4,397.02	114.15	39.519		
12,000.00	7,730.00	5,125.00	5,125.00	62.15	88.51	8.14	-5,565.89	1,838.91	4,429.83	4,316.27	113.56	39.009		
12,100.00	7,730.00	5,125.00	5,125.00	63.49	88.51	8.14	-5,565.89	1,838.91	4,349.26	4,236.32	112.95	38.507		
12,200.00	7,730.00	5,125.00	5,125.00	64.85	88.51	8.14	-5,565.89	1,838.91	4,269.52	4,157.20	112.32	38.011		
12,300.00	7,730.00	5,125.00	5,125.00	66.22	88.51	8.14	-5,565.89	1,838.91	4,190.65	4,078.97	111.68	37.523		
12,400.00	7,730.00	5,125.00	5,125.00	67.62	88.51	8.14	-5,565.89	1,838.91	4,112.69	4,001.67	111.03	37.043		
12,500.00	7,730.00	5,125.00	5,125.00	69.03	88.51	8.14	-5,565.89	1,838.91	4,035.71	3,925.36	110.35	36.571		
12,600.00	7,730.00	5,125.00	5,125.00	70.45	88.51	8.14	-5,565.89	1,838.91	3,959.76	3,850.09	109.67	36.108		
12,700.00	7,730.00	5,125.00	5,125.00	71.90	88.51	8.14	-5,565.89	1,838.91	3,884.89	3,775.93	108.96	35.654		
12,800.00	7,730.00	5,125.00	5,125.00	73.35	88.51	8.14	-5,565.89	1,838.91	3,811.18	3,702.94	108.24	35.210		
12,900.00	7,730.00	5,125.00	5,125.00	74.81	88.51	8.14	-5,565.89	1,838.91	3,738.69	3,631.19	107.50	34.777		
13,000.00	7,730.00	5,125.00	5,125.00	76.29	88.51	8.14	-5,565.89	1,838.91	3,667.50	3,560.75	106.75	34.356		
13,100.00	7,730.00	5,125.00	5,125.00	77.78	88.51	8.14	-5,565.89	1,838.91	3,597.68	3,491.70	105.98	33.947		
13,200.00	7,730.00	5,125.00	5,125.00	79.28	88.51	8.14	-5,565.89	1,838.91	3,529.30	3,424.11	105.19	33.551		
13,300.00	7,730.00	5,125.00	5,125.00	80.79	88.51	8.14	-5,565.89	1,838.91	3,462.47	3,358.09	104.38	33.170		
13,400.00	7,730.00	5,125.00	5,125.00	82.31	88.51	8.14	-5,565.89	1,838.91	3,397.27	3,293.71	103.56	32.805		
13,500.00	7,730.00	5,125.00	5,125.00	83.84	88.51	8.14	-5,565.89	1,838.91	3,333.79	3,231.07	102.71	32.457		
13,600.00	7,730.00	5,125.00	5,125.00	85.37	88.51	8.14	-5,565.89	1,838.91	3,272.13	3,170.28	101.85	32.127		
13,700.00	7,730.00	5,125.00	5,125.00	86.92	88.51	8.14	-5,565.89	1,838.91	3,212.41	3,111.44	100.97	31.817		
13,800.00	7,730.00	5,125.00	5,125.00	88.47	88.51	8.14	-5,565.89	1,838.91	3,154.72	3,054.67	100.06	31.529		
13,900.00	7,730.00	5,125.00	5,125.00	90.03	88.51	8.14	-5,565.89	1,838.91	3,099.19	3,000.06	99.13	31.264		
14,000.00	7,730.00	5,125.00	5,125.00	91.59	88.51	8.14	-5,565.89	1,838.91	3,045.93	2,947.76	98.18	31.024		
14,100.00	7,730.00	5,125.00	5,125.00	93.16	88.51	8.14	-5,565.89	1,838.91	2,995.07	2,897.86	97.21	30.811		
14,200.00	7,730.00	5,125.00	5,125.00	94.74	88.51	8.14	-5,565.89	1,838.91	2,946.72	2,850.51	96.21	30.627		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	5,125.00	5,125.00	96.33	88.51	8.14	-5,565.89	1,838.91	2,901.01	2,805.81	95.20	30.473		
14,400.00	7,730.00	5,125.00	5,125.00	97.92	88.51	8.14	-5,565.89	1,838.91	2,858.07	2,763.90	94.17	30.350		
14,500.00	7,730.00	5,125.00	5,125.00	99.51	88.51	8.14	-5,565.89	1,838.91	2,818.03	2,724.90	93.13	30.259		
14,600.00	7,730.00	5,125.00	5,125.00	101.11	88.51	8.14	-5,565.89	1,838.91	2,781.01	2,688.92	92.09	30.199		
14,700.00	7,730.00	5,125.00	5,125.00	102.72	88.51	8.14	-5,565.89	1,838.91	2,747.13	2,656.08	91.06	30.169		
14,800.00	7,730.00	5,125.00	5,125.00	104.33	88.51	8.14	-5,565.89	1,838.91	2,716.51	2,626.46	90.05	30.166		
14,900.00	7,730.00	5,125.00	5,125.00	105.94	88.51	8.14	-5,565.89	1,838.91	2,689.27	2,600.17	89.10	30.182		
15,000.00	7,730.00	5,125.00	5,125.00	107.56	88.51	8.14	-5,565.89	1,838.91	2,665.50	2,577.26	88.24	30.208		
15,100.00	7,730.00	5,125.00	5,125.00	109.18	88.51	8.14	-5,565.89	1,838.91	2,645.30	2,557.79	87.51	30.229		
15,200.00	7,730.00	5,125.00	5,125.00	110.81	88.51	8.14	-5,565.89	1,838.91	2,628.75	2,541.78	86.97	30.227		
15,300.00	7,730.00	5,125.00	5,125.00	112.44	88.51	8.14	-5,565.89	1,838.91	2,615.92	2,529.23	86.69	30.175		
15,400.00	7,730.00	5,125.00	5,125.00	114.08	88.51	8.14	-5,565.89	1,838.91	2,606.87	2,520.10	86.76	30.046		
15,500.00	7,730.00	5,125.00	5,125.00	115.72	88.51	8.14	-5,565.89	1,838.91	2,601.63	2,514.37	87.26	29.816		
15,586.42	7,730.00	5,125.00	5,125.00	117.13	88.51	8.14	-5,565.89	1,838.91	2,600.19	2,512.13	88.06	29.527 CC		
15,600.00	7,730.00	5,125.00	5,125.00	117.36	88.51	8.14	-5,565.89	1,838.91	2,600.23	2,512.01	88.22	29.474 ES		
15,700.00	7,730.00	5,125.00	5,125.00	119.00	88.51	8.14	-5,565.89	1,838.91	2,602.67	2,513.00	89.68	29.023		
15,800.00	7,730.00	5,125.00	5,125.00	120.65	88.51	8.14	-5,565.89	1,838.91	2,608.95	2,517.37	91.58	28.490		
15,900.00	7,730.00	5,125.00	5,125.00	122.30	88.51	8.14	-5,565.89	1,838.91	2,619.03	2,525.19	93.85	27.907		
16,000.00	7,730.00	5,125.00	5,125.00	123.96	88.51	8.14	-5,565.89	1,838.91	2,632.88	2,536.48	96.40	27.313		
16,100.00	7,730.00	5,125.00	5,125.00	125.61	88.51	8.14	-5,565.89	1,838.91	2,650.43	2,551.29	99.13	26.736		
16,200.00	7,730.00	5,125.00	5,125.00	127.27	88.51	8.14	-5,565.89	1,838.91	2,671.61	2,569.63	101.98	26.198		
16,300.00	7,730.00	5,125.00	5,125.00	128.94	88.51	8.14	-5,565.89	1,838.91	2,696.33	2,591.47	104.86	25.714		
16,400.00	7,730.00	5,125.00	5,125.00	130.60	88.51	8.14	-5,565.89	1,838.91	2,724.50	2,616.78	107.73	25.291		
16,500.00	7,730.00	5,125.00	5,125.00	132.27	88.51	8.14	-5,565.89	1,838.91	2,756.02	2,645.47	110.55	24.930		
16,600.00	7,730.00	5,125.00	5,125.00	133.94	88.51	8.14	-5,565.89	1,838.91	2,790.76	2,677.47	113.29	24.634		
16,700.00	7,730.00	5,125.00	5,125.00	135.61	88.51	8.14	-5,565.89	1,838.91	2,828.62	2,712.68	115.93	24.399		
16,800.00	7,730.00	5,125.00	5,125.00	137.28	88.51	8.14	-5,565.89	1,838.91	2,869.46	2,751.00	118.46	24.223		
16,900.00	7,730.00	5,125.00	5,125.00	138.96	88.51	8.14	-5,565.89	1,838.91	2,913.16	2,792.29	120.87	24.102		
17,000.00	7,730.00	5,125.00	5,125.00	140.64	88.51	8.14	-5,565.89	1,838.91	2,959.60	2,836.45	123.15	24.033		
17,100.00	7,730.00	5,125.00	5,125.00	142.32	88.51	8.14	-5,565.89	1,838.91	3,008.64	2,883.34	125.30	24.011 SF		
17,200.00	7,730.00	5,125.00	5,125.00	144.00	88.51	8.14	-5,565.89	1,838.91	3,060.17	2,932.85	127.32	24.035		
17,300.00	7,730.00	5,125.00	5,125.00	145.69	88.51	8.14	-5,565.89	1,838.91	3,114.06	2,984.84	129.22	24.099		
17,400.00	7,730.00	5,125.00	5,125.00	147.37	88.51	8.14	-5,565.89	1,838.91	3,170.19	3,039.19	130.99	24.201		
17,500.00	7,730.00	5,125.00	5,125.00	149.06	88.51	8.14	-5,565.89	1,838.91	3,228.44	3,095.79	132.65	24.338		
17,600.00	7,730.00	5,125.00	5,125.00	150.75	88.51	8.14	-5,565.89	1,838.91	3,288.70	3,154.51	134.19	24.508		
17,700.00	7,730.00	5,125.00	5,125.00	152.44	88.51	8.14	-5,565.89	1,838.91	3,350.86	3,215.23	135.62	24.707		
17,800.00	7,730.00	5,125.00	5,125.00	154.13	88.51	8.14	-5,565.89	1,838.91	3,414.81	3,277.86	136.96	24.934		
17,900.00	7,730.00	5,125.00	5,125.00	155.83	88.51	8.14	-5,565.89	1,838.91	3,480.47	3,342.28	138.19	25.186		
18,000.00	7,730.00	5,125.00	5,125.00	157.52	88.51	8.14	-5,565.89	1,838.91	3,547.73	3,408.39	139.34	25.461		
18,100.00	7,730.00	5,125.00	5,125.00	159.22	88.51	8.14	-5,565.89	1,838.91	3,616.50	3,476.11	140.40	25.759		
18,200.00	7,730.00	5,125.00	5,125.00	160.92	88.51	8.14	-5,565.89	1,838.91	3,686.71	3,545.33	141.38	26.076		
18,300.00	7,730.00	5,125.00	5,125.00	162.62	88.51	8.14	-5,565.89	1,838.91	3,758.26	3,615.97	142.29	26.412		
18,400.00	7,730.00	5,125.00	5,125.00	164.32	88.51	8.14	-5,565.89	1,838.91	3,831.09	3,687.96	143.13	26.766		
18,426.22	7,730.00	5,125.00	5,125.00	164.76	88.51	8.14	-5,565.89	1,838.91	3,850.39	3,707.05	143.34	26.861		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	150.26	-5,537.35	3,163.05	6,377.15					
100.00	100.00	69.00	69.00	0.13	0.56	150.26	-5,537.35	3,163.05	6,377.08	6,376.38	0.69	9,183.359		
200.00	200.00	169.00	169.00	0.49	2.02	150.26	-5,537.35	3,163.05	6,377.08	6,374.57	2.51	2,541.929		
300.00	300.00	269.00	269.00	0.85	3.76	150.26	-5,537.35	3,163.05	6,377.08	6,372.46	4.61	1,382.547		
400.00	400.00	369.00	369.00	1.21	5.51	150.26	-5,537.35	3,163.05	6,377.08	6,370.36	6.72	949.485		
500.00	500.00	469.00	469.00	1.57	7.25	150.26	-5,537.35	3,163.05	6,377.08	6,368.26	8.82	723.012		
600.00	600.00	569.00	569.00	1.93	9.00	150.26	-5,537.35	3,163.05	6,377.08	6,366.15	10.92	583.770		
700.00	700.00	669.00	669.00	2.29	10.74	150.26	-5,537.35	3,163.05	6,377.08	6,364.05	13.03	489.499		
800.00	800.00	769.00	769.00	2.64	12.49	150.26	-5,537.35	3,163.05	6,377.08	6,361.95	15.13	421.442		
900.00	900.00	869.00	869.00	3.00	14.23	150.26	-5,537.35	3,163.05	6,377.08	6,359.84	17.24	370.000		
1,000.00	1,000.00	969.00	969.00	3.36	15.98	150.26	-5,537.35	3,163.05	6,377.08	6,357.74	19.34	329.749		
1,100.00	1,100.00	1,069.00	1,069.00	3.72	17.72	150.26	-5,537.35	3,163.05	6,377.08	6,355.63	21.44	297.397		
1,200.00	1,200.00	1,169.00	1,169.00	4.08	19.47	150.26	-5,537.35	3,163.05	6,377.08	6,353.53	23.55	270.826		
1,300.00	1,299.98	1,268.98	1,268.98	4.43	21.21	103.15	-5,537.35	3,163.05	6,377.47	6,351.83	25.65	248.659		
1,400.00	1,399.84	1,368.84	1,368.84	4.79	22.96	103.17	-5,537.35	3,163.05	6,378.67	6,350.92	27.74	229.905		
1,500.00	1,499.45	1,468.45	1,468.45	5.15	24.70	103.21	-5,537.35	3,163.05	6,380.66	6,350.82	29.84	213.817		
1,600.00	1,598.70	1,567.70	1,567.70	5.51	26.43	103.26	-5,537.35	3,163.05	6,383.47	6,351.53	31.94	199.863		
1,700.00	1,697.47	1,666.47	1,666.47	5.89	28.15	103.33	-5,537.35	3,163.05	6,387.11	6,353.07	34.04	187.639		
1,800.00	1,795.62	1,764.62	1,764.62	6.28	29.86	103.40	-5,537.35	3,163.05	6,391.60	6,355.46	36.14	176.835		
1,900.00	1,893.06	1,862.06	1,862.06	6.69	31.57	103.49	-5,537.35	3,163.05	6,396.96	6,358.71	38.26	167.208		
2,000.00	1,989.64	1,958.64	1,958.64	7.13	33.25	103.58	-5,537.35	3,163.05	6,403.22	6,362.84	40.38	158.570		
2,100.00	2,085.27	2,054.27	2,054.27	7.61	34.92	103.69	-5,537.35	3,163.05	6,410.41	6,367.89	42.52	150.768		
2,200.00	2,179.82	2,148.82	2,148.82	8.12	36.57	103.80	-5,537.35	3,163.05	6,418.57	6,373.90	44.67	143.683		
2,300.00	2,273.17	2,242.17	2,242.17	8.67	38.20	103.91	-5,537.35	3,163.05	6,427.72	6,380.88	46.84	137.216		
2,400.00	2,365.21	2,334.21	2,334.21	9.27	39.81	104.02	-5,537.35	3,163.05	6,437.91	6,388.88	49.04	131.289		
2,500.00	2,455.84	2,424.84	2,424.84	9.92	41.39	104.13	-5,537.35	3,163.05	6,449.19	6,397.94	51.25	125.836		
2,580.62	2,527.80	2,503.20	2,496.80	10.49	42.76	104.22	-5,537.35	3,163.05	6,459.09	6,405.93	53.16	121.495		
2,600.00	2,544.97	2,513.97	2,513.97	10.63	42.94	104.29	-5,537.35	3,163.05	6,461.57	6,408.08	53.49	120.807		
2,700.00	2,633.58	2,602.58	2,602.58	11.37	44.49	104.65	-5,537.35	3,163.05	6,474.53	6,418.78	55.75	116.144		
2,800.00	2,722.19	2,708.81	2,691.19	12.13	46.34	105.00	-5,537.35	3,163.05	6,487.79	6,429.46	58.33	111.224		
2,900.00	2,810.80	2,779.80	2,779.80	12.91	47.58	105.35	-5,537.35	3,163.05	6,501.36	6,441.04	60.32	107.788		
3,000.00	2,899.41	2,868.41	2,868.41	13.71	49.13	105.71	-5,537.35	3,163.05	6,515.23	6,452.61	62.62	104.043		
3,100.00	2,988.02	2,957.02	2,957.02	14.52	50.68	106.06	-5,537.35	3,163.05	6,529.40	6,464.46	64.93	100.553		
3,200.00	3,076.63	3,045.63	3,045.63	15.34	52.22	106.41	-5,537.35	3,163.05	6,543.86	6,476.61	67.26	97.298		
3,300.00	3,165.24	3,134.24	3,134.24	16.16	53.77	106.75	-5,537.35	3,163.05	6,558.63	6,489.04	69.58	94.256		
3,400.00	3,253.85	3,222.85	3,222.85	17.00	55.32	107.10	-5,537.35	3,163.05	6,573.68	6,501.77	71.91	91.410		
3,500.00	3,342.46	3,311.46	3,311.46	17.84	56.86	107.45	-5,537.35	3,163.05	6,589.03	6,514.78	74.25	88.742		
3,600.00	3,431.07	3,400.07	3,400.07	18.69	58.41	107.79	-5,537.35	3,163.05	6,604.67	6,528.08	76.59	86.238		
3,700.00	3,519.68	3,488.68	3,488.68	19.55	59.96	108.13	-5,537.35	3,163.05	6,620.59	6,541.67	78.93	83.884		
3,800.00	3,608.29	3,577.29	3,577.29	20.40	61.50	108.47	-5,537.35	3,163.05	6,636.80	6,555.54	81.26	81.669		
3,900.00	3,696.90	3,665.90	3,665.90	21.26	63.05	108.82	-5,537.35	3,163.05	6,653.29	6,569.69	83.61	79.580		
4,000.00	3,785.51	3,754.51	3,754.51	22.13	64.59	109.15	-5,537.35	3,163.05	6,670.07	6,584.12	85.95	77.608		
4,100.00	3,874.12	3,843.12	3,843.12	23.00	66.14	109.49	-5,537.35	3,163.05	6,687.12	6,598.84	88.28	75.745		
4,200.00	3,962.73	3,931.73	3,931.73	23.87	67.69	109.83	-5,537.35	3,163.05	6,704.45	6,613.83	90.62	73.982		
4,300.00	4,051.34	4,020.34	4,020.34	24.74	69.23	110.16	-5,537.35	3,163.05	6,722.06	6,629.10	92.96	72.311		
4,400.00	4,139.95	4,108.95	4,108.95	25.62	70.78	110.50	-5,537.35	3,163.05	6,739.94	6,644.64	95.30	70.726		
4,500.00	4,228.56	4,202.44	4,197.56	26.49	72.41	110.83	-5,537.35	3,163.05	6,758.09	6,660.37	97.72	69.160		
4,600.00	4,317.17	4,286.17	4,286.17	27.37	73.87	111.16	-5,537.35	3,163.05	6,776.51	6,676.54	99.96	67.790		
4,700.00	4,405.78	4,374.78	4,374.78	28.25	75.42	111.49	-5,537.35	3,163.05	6,795.19	6,692.90	102.29	66.428		
4,800.00	4,494.39	4,463.39	4,463.39	29.13	76.97	111.81	-5,537.35	3,163.05	6,814.14	6,709.52	104.62	65.131		
4,900.00	4,583.00	4,552.00	4,552.00	30.02	78.51	112.14	-5,537.35	3,163.05	6,833.35	6,726.40	106.95	63.894		
5,000.00	4,671.61	4,640.61	4,640.61	30.90	80.06	112.46	-5,537.35	3,163.05	6,852.82	6,743.55	109.27	62.714		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,729.22	4,729.22	31.79	81.61	112.79	-5,537.35	3,163.05	6,872.54	6,760.95	111.59	61.587		
5,200.00	4,848.83	4,817.83	4,817.83	32.67	83.15	113.11	-5,537.35	3,163.05	6,892.53	6,778.62	113.91	60.509		
5,300.00	4,937.44	4,906.44	4,906.44	33.56	84.70	113.43	-5,537.35	3,163.05	6,912.76	6,796.54	116.22	59.478		
5,400.00	5,026.05	5,004.95	4,995.05	34.45	86.42	113.75	-5,537.35	3,163.05	6,933.25	6,814.54	118.71	58.406		
5,500.00	5,114.66	5,083.66	5,083.66	35.34	87.79	114.06	-5,537.35	3,163.05	6,953.98	6,833.14	120.84	57.545		
5,600.00	5,203.27	5,148.00	5,148.00	36.23	88.92	114.29	-5,537.35	3,163.05	6,975.00	6,852.29	122.72	56.837		
5,700.00	5,291.88	5,148.00	5,148.00	37.12	88.92	114.29	-5,537.35	3,163.05	6,997.10	6,873.67	123.43	56.688		
5,800.00	5,380.50	5,148.00	5,148.00	38.01	88.92	114.29	-5,537.35	3,163.05	7,020.55	6,896.42	124.12	56.562		
5,900.00	5,469.11	5,148.00	5,148.00	38.90	88.92	114.29	-5,537.35	3,163.05	7,045.34	6,920.55	124.79	56.458		
6,000.00	5,557.72	5,148.00	5,148.00	39.79	88.92	114.29	-5,537.35	3,163.05	7,071.45	6,946.02	125.43	56.377		
6,100.00	5,646.33	5,148.00	5,148.00	40.68	88.92	114.29	-5,537.35	3,163.05	7,098.88	6,972.83	126.05	56.318		
6,200.00	5,734.94	5,148.00	5,148.00	41.58	88.92	114.29	-5,537.35	3,163.05	7,127.61	7,000.97	126.65	56.280		
6,300.00	5,823.55	5,148.00	5,148.00	42.47	88.92	114.29	-5,537.35	3,163.05	7,157.62	7,030.40	127.22	56.263		
6,400.00	5,912.16	5,148.00	5,148.00	43.36	88.92	114.29	-5,537.35	3,163.05	7,188.90	7,061.13	127.77	56.265		
6,500.00	6,000.77	5,148.00	5,148.00	44.26	88.92	114.29	-5,537.35	3,163.05	7,221.42	7,093.12	128.30	56.287		
6,600.00	6,089.38	5,148.00	5,148.00	45.15	88.92	114.29	-5,537.35	3,163.05	7,255.18	7,126.38	128.80	56.329		
6,700.00	6,177.99	5,148.00	5,148.00	46.05	88.92	114.29	-5,537.35	3,163.05	7,290.15	7,160.87	129.28	56.389		
6,800.00	6,266.60	5,148.00	5,148.00	46.94	88.92	114.29	-5,537.35	3,163.05	7,326.32	7,196.58	129.75	56.467		
6,900.00	6,355.21	5,148.00	5,148.00	47.84	88.92	114.29	-5,537.35	3,163.05	7,363.67	7,233.49	130.19	56.562		
7,000.00	6,443.82	5,148.00	5,148.00	48.74	88.92	114.29	-5,537.35	3,163.05	7,402.19	7,271.58	130.61	56.675		
7,100.00	6,532.43	5,148.00	5,148.00	49.63	88.92	114.29	-5,537.35	3,163.05	7,441.84	7,310.84	131.01	56.805		
7,200.00	6,621.04	5,148.00	5,148.00	50.53	88.92	114.29	-5,537.35	3,163.05	7,482.63	7,351.24	131.39	56.951		
7,300.00	6,709.65	5,148.00	5,148.00	51.42	88.92	114.29	-5,537.35	3,163.05	7,524.52	7,392.77	131.75	57.113		
7,400.00	6,798.26	5,148.00	5,148.00	52.32	88.92	114.29	-5,537.35	3,163.05	7,567.50	7,435.41	132.09	57.291		
7,500.00	6,886.87	5,148.00	5,148.00	53.22	88.92	114.29	-5,537.35	3,163.05	7,611.56	7,479.14	132.41	57.483		
7,600.00	6,975.48	5,148.00	5,148.00	54.12	88.92	114.29	-5,537.35	3,163.05	7,656.66	7,523.94	132.72	57.691		
7,656.30	7,025.36	5,148.00	5,148.00	54.62	88.92	114.29	-5,537.35	3,163.05	7,682.51	7,549.63	132.88	57.814		
7,700.00	7,064.54	5,148.00	5,148.00	55.00	88.92	107.69	-5,537.35	3,163.05	7,701.36	7,568.36	133.00	57.904		
7,750.00	7,110.29	5,148.00	5,148.00	55.40	88.92	98.14	-5,537.35	3,163.05	7,719.56	7,586.44	133.12	57.990		
7,800.00	7,156.67	5,148.00	5,148.00	55.75	88.92	86.61	-5,537.35	3,163.05	7,734.05	7,600.83	133.22	58.056		
7,850.00	7,203.34	5,148.00	5,148.00	56.05	88.92	73.92	-5,537.35	3,163.05	7,744.75	7,611.46	133.29	58.106		
7,900.00	7,249.95	5,148.00	5,148.00	56.30	88.92	61.38	-5,537.35	3,163.05	7,751.59	7,618.26	133.33	58.138		
7,950.00	7,296.14	5,148.00	5,148.00	56.50	88.92	50.18	-5,537.35	3,163.05	7,754.53	7,621.19	133.34	58.155		
8,000.00	7,341.56	5,148.00	5,148.00	56.64	88.92	40.86	-5,537.35	3,163.05	7,753.55	7,620.22	133.32	58.156		
8,050.00	7,385.86	5,148.00	5,148.00	56.74	88.92	33.35	-5,537.35	3,163.05	7,748.66	7,615.38	133.28	58.139		
8,100.00	7,428.71	5,148.00	5,148.00	56.79	88.92	27.36	-5,537.35	3,163.05	7,739.88	7,606.68	133.20	58.106		
8,150.00	7,469.77	5,148.00	5,148.00	56.80	88.92	22.52	-5,537.35	3,163.05	7,727.28	7,594.17	133.10	58.055		
8,200.00	7,508.75	5,148.00	5,148.00	56.77	88.92	18.53	-5,537.35	3,163.05	7,710.92	7,577.94	132.98	57.985		
8,250.00	7,545.33	5,148.00	5,148.00	56.70	88.92	15.16	-5,537.35	3,163.05	7,690.92	7,558.08	132.84	57.898		
8,300.00	7,579.25	5,148.00	5,148.00	56.59	88.92	12.20	-5,537.35	3,163.05	7,667.38	7,534.71	132.67	57.791		
8,350.00	7,610.24	5,148.00	5,148.00	56.45	88.92	9.50	-5,537.35	3,163.05	7,640.47	7,507.97	132.50	57.665		
8,400.00	7,638.06	5,148.00	5,148.00	56.28	88.92	6.94	-5,537.35	3,163.05	7,610.35	7,478.04	132.31	57.520		
8,450.00	7,662.52	5,148.00	5,148.00	56.09	88.92	4.38	-5,537.35	3,163.05	7,577.22	7,445.11	132.11	57.356		
8,500.00	7,683.41	5,148.00	5,148.00	55.88	88.92	1.69	-5,537.35	3,163.05	7,541.28	7,409.38	131.90	57.173		
8,550.00	7,700.59	5,148.00	5,148.00	55.64	88.92	-1.28	-5,537.35	3,163.05	7,502.77	7,371.08	131.69	56.971		
8,600.00	7,713.91	5,148.00	5,148.00	55.39	88.92	-4.76	-5,537.35	3,163.05	7,461.96	7,330.47	131.49	56.751		
8,650.00	7,723.29	5,148.00	5,148.00	55.14	88.92	-9.04	-5,537.35	3,163.05	7,419.10	7,287.82	131.28	56.513		
8,700.00	7,728.64	5,148.00	5,148.00	54.87	88.92	-14.60	-5,537.35	3,163.05	7,374.51	7,243.43	131.08	56.258		
8,740.83	7,730.00	5,148.00	5,148.00	54.65	88.92	-20.54	-5,537.35	3,163.05	7,337.02	7,206.09	130.93	56.038		
8,800.00	7,730.00	5,148.00	5,148.00	54.33	88.92	-20.54	-5,537.35	3,163.05	7,282.11	7,151.40	130.71	55.713		
8,900.00	7,730.00	5,148.00	5,148.00	53.82	88.92	-20.54	-5,537.35	3,163.05	7,189.47	7,059.14	130.33	55.165		
9,000.00	7,730.00	5,148.00	5,148.00	53.33	88.92	-20.54	-5,537.35	3,163.05	7,097.03	6,967.09	129.94	54.619		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,100.00	7,730.00	5,148.00	5,148.00	52.87	88.92	-20.54	-5,537.35	3,163.05	7,004.79	6,875.25	129.54	54.075		
9,200.00	7,730.00	5,148.00	5,148.00	52.44	88.92	-20.54	-5,537.35	3,163.05	6,912.77	6,783.64	129.13	53.533		
9,300.00	7,730.00	5,148.00	5,148.00	52.03	88.92	-20.54	-5,537.35	3,163.05	6,820.98	6,692.27	128.72	52.993		
9,400.00	7,730.00	5,148.00	5,148.00	51.65	88.92	-20.54	-5,537.35	3,163.05	6,729.42	6,601.13	128.29	52.454		
9,500.00	7,730.00	5,148.00	5,148.00	51.29	88.92	-20.54	-5,537.35	3,163.05	6,638.11	6,510.25	127.86	51.919		
9,600.00	7,730.00	5,148.00	5,148.00	50.95	88.92	-20.54	-5,537.35	3,163.05	6,547.04	6,419.63	127.41	51.385		
9,700.00	7,730.00	5,148.00	5,148.00	50.64	88.92	-20.54	-5,537.35	3,163.05	6,456.24	6,329.29	126.96	50.853		
9,800.00	7,730.00	5,148.00	5,148.00	50.35	88.92	-20.54	-5,537.35	3,163.05	6,365.72	6,239.23	126.49	50.324		
9,900.00	7,730.00	5,148.00	5,148.00	50.09	88.92	-20.54	-5,537.35	3,163.05	6,275.49	6,149.47	126.02	49.797		
10,000.00	7,730.00	5,148.00	5,148.00	49.86	88.92	-20.54	-5,537.35	3,163.05	6,185.55	6,060.02	125.54	49.272		
10,100.00	7,730.00	5,148.00	5,148.00	49.65	88.92	-20.54	-5,537.35	3,163.05	6,095.93	5,970.89	125.04	48.750		
10,200.00	7,730.00	5,148.00	5,148.00	49.48	88.92	-20.54	-5,537.35	3,163.05	6,006.64	5,882.10	124.54	48.231		
10,300.00	7,730.00	5,148.00	5,148.00	49.35	88.92	-20.54	-5,537.35	3,163.05	5,917.69	5,793.67	124.03	47.713		
10,400.00	7,730.00	5,148.00	5,148.00	49.27	88.92	-20.54	-5,537.35	3,163.05	5,829.10	5,705.60	123.50	47.198		
10,500.00	7,730.00	5,148.00	5,148.00	49.26	88.92	-20.54	-5,537.35	3,163.05	5,740.88	5,617.92	122.97	46.686		
10,600.00	7,730.00	5,148.00	5,148.00	49.32	88.92	-20.54	-5,537.35	3,163.05	5,653.06	5,530.63	122.42	46.177		
10,700.00	7,730.00	5,148.00	5,148.00	49.51	88.92	-20.54	-5,537.35	3,163.05	5,565.64	5,443.78	121.87	45.669		
10,800.00	7,730.00	5,148.00	5,148.00	49.83	88.92	-20.54	-5,537.35	3,163.05	5,478.66	5,357.36	121.30	45.164		
10,900.00	7,730.00	5,148.00	5,148.00	50.31	88.92	-20.54	-5,537.35	3,163.05	5,392.13	5,271.40	120.73	44.662		
11,000.00	7,730.00	5,148.00	5,148.00	50.96	88.92	-20.54	-5,537.35	3,163.05	5,306.07	5,185.92	120.15	44.162		
11,100.00	7,730.00	5,148.00	5,148.00	51.75	88.92	-20.54	-5,537.35	3,163.05	5,220.51	5,100.95	119.56	43.665		
11,200.00	7,730.00	5,148.00	5,148.00	52.66	88.92	-20.54	-5,537.35	3,163.05	5,135.47	5,016.51	118.96	43.169		
11,300.00	7,730.00	5,148.00	5,148.00	53.67	88.92	-20.54	-5,537.35	3,163.05	5,050.98	4,932.62	118.36	42.676		
11,400.00	7,730.00	5,148.00	5,148.00	54.75	88.92	-20.54	-5,537.35	3,163.05	4,967.06	4,849.32	117.75	42.185		
11,500.00	7,730.00	5,148.00	5,148.00	55.89	88.92	-20.54	-5,537.35	3,163.05	4,883.75	4,766.62	117.13	41.695		
11,600.00	7,730.00	5,148.00	5,148.00	57.07	88.92	-20.54	-5,537.35	3,163.05	4,801.08	4,684.57	116.51	41.207		
11,700.00	7,730.00	5,148.00	5,148.00	58.30	88.92	-20.54	-5,537.35	3,163.05	4,719.08	4,603.19	115.89	40.721		
11,800.00	7,730.00	5,148.00	5,148.00	59.55	88.92	-20.54	-5,537.35	3,163.05	4,637.78	4,522.52	115.26	40.236		
11,900.00	7,730.00	5,148.00	5,148.00	60.84	88.92	-20.54	-5,537.35	3,163.05	4,557.23	4,442.59	114.64	39.752		
12,000.00	7,730.00	5,148.00	5,148.00	62.15	88.92	-20.54	-5,537.35	3,163.05	4,477.46	4,363.44	114.02	39.268		
12,100.00	7,730.00	5,148.00	5,148.00	63.49	88.92	-20.54	-5,537.35	3,163.05	4,398.52	4,285.11	113.41	38.785		
12,200.00	7,730.00	5,148.00	5,148.00	64.85	88.92	-20.54	-5,537.35	3,163.05	4,320.45	4,207.66	112.80	38.302		
12,300.00	7,730.00	5,148.00	5,148.00	66.22	88.92	-20.54	-5,537.35	3,163.05	4,243.31	4,131.11	112.20	37.819		
12,400.00	7,730.00	5,148.00	5,148.00	67.62	88.92	-20.54	-5,537.35	3,163.05	4,167.13	4,055.52	111.61	37.335		
12,500.00	7,730.00	5,148.00	5,148.00	69.03	88.92	-20.54	-5,537.35	3,163.05	4,091.98	3,980.94	111.04	36.851		
12,600.00	7,730.00	5,148.00	5,148.00	70.45	88.92	-20.54	-5,537.35	3,163.05	4,017.92	3,907.43	110.49	36.366		
12,700.00	7,730.00	5,148.00	5,148.00	71.90	88.92	-20.54	-5,537.35	3,163.05	3,944.99	3,835.04	109.95	35.879		
12,800.00	7,730.00	5,148.00	5,148.00	73.35	88.92	-20.54	-5,537.35	3,163.05	3,873.28	3,763.84	109.44	35.392		
12,900.00	7,730.00	5,148.00	5,148.00	74.81	88.92	-20.54	-5,537.35	3,163.05	3,802.85	3,693.89	108.95	34.904		
13,000.00	7,730.00	5,148.00	5,148.00	76.29	88.92	-20.54	-5,537.35	3,163.05	3,733.76	3,625.27	108.49	34.414		
13,100.00	7,730.00	5,148.00	5,148.00	77.78	88.92	-20.54	-5,537.35	3,163.05	3,666.10	3,558.03	108.07	33.924		
13,200.00	7,730.00	5,148.00	5,148.00	79.28	88.92	-20.54	-5,537.35	3,163.05	3,599.95	3,492.28	107.67	33.434		
13,300.00	7,730.00	5,148.00	5,148.00	80.79	88.92	-20.54	-5,537.35	3,163.05	3,535.39	3,428.07	107.31	32.945		
13,400.00	7,730.00	5,148.00	5,148.00	82.31	88.92	-20.54	-5,537.35	3,163.05	3,472.50	3,365.51	106.99	32.456		
13,500.00	7,730.00	5,148.00	5,148.00	83.84	88.92	-20.54	-5,537.35	3,163.05	3,411.39	3,304.69	106.71	31.970		
13,600.00	7,730.00	5,148.00	5,148.00	85.37	88.92	-20.54	-5,537.35	3,163.05	3,352.15	3,245.69	106.46	31.486		
13,700.00	7,730.00	5,148.00	5,148.00	86.92	88.92	-20.54	-5,537.35	3,163.05	3,294.89	3,188.62	106.26	31.007		
13,800.00	7,730.00	5,148.00	5,148.00	88.47	88.92	-20.54	-5,537.35	3,163.05	3,239.69	3,133.59	106.10	30.533		
13,900.00	7,730.00	5,148.00	5,148.00	90.03	88.92	-20.54	-5,537.35	3,163.05	3,186.68	3,080.69	105.99	30.066		
14,000.00	7,730.00	5,148.00	5,148.00	91.59	88.92	-20.54	-5,537.35	3,163.05	3,135.96	3,030.04	105.92	29.607		
14,100.00	7,730.00	5,148.00	5,148.00	93.16	88.92	-20.54	-5,537.35	3,163.05	3,087.65	2,981.76	105.90	29.158		
14,200.00	7,730.00	5,148.00	5,148.00	94.74	88.92	-20.54	-5,537.35	3,163.05	3,041.86	2,935.94	105.92	28.718		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	5,148.00	5,148.00	96.33	88.92	-20.54	-5,537.35	3,163.05	2,998.71	2,892.71	106.00	28.290		
14,400.00	7,730.00	5,148.00	5,148.00	97.92	88.92	-20.54	-5,537.35	3,163.05	2,958.31	2,852.17	106.14	27.873		
14,500.00	7,730.00	5,148.00	5,148.00	99.51	88.92	-20.54	-5,537.35	3,163.05	2,920.77	2,814.44	106.33	27.468		
14,600.00	7,730.00	5,148.00	5,148.00	101.11	88.92	-20.54	-5,537.35	3,163.05	2,886.21	2,779.61	106.60	27.074		
14,700.00	7,730.00	5,148.00	5,148.00	102.72	88.92	-20.54	-5,537.35	3,163.05	2,854.74	2,747.79	106.95	26.691		
14,800.00	7,730.00	5,148.00	5,148.00	104.33	88.92	-20.54	-5,537.35	3,163.05	2,826.46	2,719.07	107.40	26.318		
14,900.00	7,730.00	5,148.00	5,148.00	105.94	88.92	-20.54	-5,537.35	3,163.05	2,801.47	2,693.52	107.95	25.953		
15,000.00	7,730.00	5,148.00	5,148.00	107.56	88.92	-20.54	-5,537.35	3,163.05	2,779.85	2,671.23	108.62	25.593		
15,100.00	7,730.00	5,148.00	5,148.00	109.18	88.92	-20.54	-5,537.35	3,163.05	2,761.68	2,652.25	109.43	25.236		
15,200.00	7,730.00	5,148.00	5,148.00	110.81	88.92	-20.54	-5,537.35	3,163.05	2,747.04	2,636.63	110.41	24.880		
15,300.00	7,730.00	5,148.00	5,148.00	112.44	88.92	-20.54	-5,537.35	3,163.05	2,735.97	2,624.41	111.56	24.524		
15,400.00	7,730.00	5,148.00	5,148.00	114.08	88.92	-20.54	-5,537.35	3,163.05	2,728.53	2,615.62	112.90	24.167		
15,500.00	7,730.00	5,148.00	5,148.00	115.72	88.92	-20.54	-5,537.35	3,163.05	2,724.74	2,610.30	114.44	23.809		
15,553.35	7,730.00	5,148.00	5,148.00	116.59	88.92	-20.54	-5,537.35	3,163.05	2,724.22	2,608.87	115.34	23.619 CC		
15,600.00	7,730.00	5,148.00	5,148.00	117.36	88.92	-20.54	-5,537.35	3,163.05	2,724.61	2,608.44	116.17	23.453 ES		
15,700.00	7,730.00	5,148.00	5,148.00	119.00	88.92	-20.54	-5,537.35	3,163.05	2,728.16	2,610.06	118.10	23.101		
15,800.00	7,730.00	5,148.00	5,148.00	120.65	88.92	-20.54	-5,537.35	3,163.05	2,735.36	2,615.17	120.18	22.760		
15,900.00	7,730.00	5,148.00	5,148.00	122.30	88.92	-20.54	-5,537.35	3,163.05	2,746.18	2,623.76	122.42	22.433		
16,000.00	7,730.00	5,148.00	5,148.00	123.96	88.92	-20.54	-5,537.35	3,163.05	2,760.59	2,635.82	124.76	22.126		
16,100.00	7,730.00	5,148.00	5,148.00	125.61	88.92	-20.54	-5,537.35	3,163.05	2,778.52	2,651.33	127.19	21.845		
16,200.00	7,730.00	5,148.00	5,148.00	127.27	88.92	-20.54	-5,537.35	3,163.05	2,799.91	2,670.24	129.67	21.593		
16,300.00	7,730.00	5,148.00	5,148.00	128.94	88.92	-20.54	-5,537.35	3,163.05	2,824.68	2,692.52	132.16	21.373		
16,400.00	7,730.00	5,148.00	5,148.00	130.60	88.92	-20.54	-5,537.35	3,163.05	2,852.75	2,718.11	134.64	21.188		
16,500.00	7,730.00	5,148.00	5,148.00	132.27	88.92	-20.54	-5,537.35	3,163.05	2,884.01	2,746.93	137.08	21.039		
16,600.00	7,730.00	5,148.00	5,148.00	133.94	88.92	-20.54	-5,537.35	3,163.05	2,918.36	2,778.90	139.46	20.926		
16,700.00	7,730.00	5,148.00	5,148.00	135.61	88.92	-20.54	-5,537.35	3,163.05	2,955.70	2,813.93	141.77	20.849		
16,800.00	7,730.00	5,148.00	5,148.00	137.28	88.92	-20.54	-5,537.35	3,163.05	2,995.91	2,851.92	143.99	20.807		
16,900.00	7,730.00	5,148.00	5,148.00	138.96	88.92	-20.54	-5,537.35	3,163.05	3,038.88	2,892.78	146.11	20.799 SF		
17,000.00	7,730.00	5,148.00	5,148.00	140.64	88.92	-20.54	-5,537.35	3,163.05	3,084.50	2,936.38	148.12	20.824		
17,100.00	7,730.00	5,148.00	5,148.00	142.32	88.92	-20.54	-5,537.35	3,163.05	3,132.64	2,982.62	150.03	20.881		
17,200.00	7,730.00	5,148.00	5,148.00	144.00	88.92	-20.54	-5,537.35	3,163.05	3,183.20	3,031.38	151.82	20.967		
17,300.00	7,730.00	5,148.00	5,148.00	145.69	88.92	-20.54	-5,537.35	3,163.05	3,236.07	3,082.56	153.51	21.081		
17,400.00	7,730.00	5,148.00	5,148.00	147.37	88.92	-20.54	-5,537.35	3,163.05	3,291.12	3,136.03	155.08	21.221		
17,500.00	7,730.00	5,148.00	5,148.00	149.06	88.92	-20.54	-5,537.35	3,163.05	3,348.25	3,191.69	156.56	21.387		
17,600.00	7,730.00	5,148.00	5,148.00	150.75	88.92	-20.54	-5,537.35	3,163.05	3,407.36	3,249.44	157.92	21.576		
17,700.00	7,730.00	5,148.00	5,148.00	152.44	88.92	-20.54	-5,537.35	3,163.05	3,468.35	3,309.15	159.19	21.787		
17,800.00	7,730.00	5,148.00	5,148.00	154.13	88.92	-20.54	-5,537.35	3,163.05	3,531.11	3,370.75	160.37	22.019		
17,900.00	7,730.00	5,148.00	5,148.00	155.83	88.92	-20.54	-5,537.35	3,163.05	3,595.57	3,434.11	161.46	22.270		
18,000.00	7,730.00	5,148.00	5,148.00	157.52	88.92	-20.54	-5,537.35	3,163.05	3,661.62	3,499.16	162.46	22.539		
18,100.00	7,730.00	5,148.00	5,148.00	159.22	88.92	-20.54	-5,537.35	3,163.05	3,729.18	3,565.79	163.38	22.825		
18,200.00	7,730.00	5,148.00	5,148.00	160.92	88.92	-20.54	-5,537.35	3,163.05	3,798.17	3,633.94	164.23	23.127		
18,300.00	7,730.00	5,148.00	5,148.00	162.62	88.92	-20.54	-5,537.35	3,163.05	3,868.52	3,703.50	165.01	23.444		
18,400.00	7,730.00	5,148.00	5,148.00	164.32	88.92	-20.54	-5,537.35	3,163.05	3,940.15	3,774.42	165.73	23.775		
18,426.22	7,730.00	5,148.00	5,148.00	164.76	88.92	-20.54	-5,537.35	3,163.05	3,959.13	3,793.23	165.90	23.864		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	147.05	-6,842.39	4,434.50	8,153.76					
100.00	100.00	76.00	76.00	0.13	0.63	147.05	-6,842.39	4,434.50	8,153.72	8,152.96	0.76	N/A		
200.00	200.00	176.00	176.00	0.49	2.16	147.05	-6,842.39	4,434.50	8,153.72	8,151.07	2.65	3,078.757		
300.00	300.00	276.00	276.00	0.85	3.90	147.05	-6,842.39	4,434.50	8,153.72	8,148.97	4.75	1,715.785		
400.00	400.00	376.00	376.00	1.21	5.65	147.05	-6,842.39	4,434.50	8,153.72	8,146.87	6.86	1,189.286		
500.00	500.00	476.00	476.00	1.57	7.39	147.05	-6,842.39	4,434.50	8,153.72	8,144.76	8.96	910.036		
600.00	600.00	576.00	576.00	1.93	9.14	147.05	-6,842.39	4,434.50	8,153.72	8,142.66	11.06	736.987		
700.00	700.00	676.00	676.00	2.29	10.88	147.05	-6,842.39	4,434.50	8,153.72	8,140.55	13.17	619.236		
800.00	800.00	776.00	776.00	2.64	12.63	147.05	-6,842.39	4,434.50	8,153.72	8,138.45	15.27	533.929		
900.00	900.00	876.00	876.00	3.00	14.37	147.05	-6,842.39	4,434.50	8,153.72	8,136.35	17.37	469.279		
1,000.00	1,000.00	976.00	976.00	3.36	16.12	147.05	-6,842.39	4,434.50	8,153.72	8,134.24	19.48	418.595		
1,100.00	1,100.00	1,076.00	1,076.00	3.72	17.86	147.05	-6,842.39	4,434.50	8,153.72	8,132.14	21.58	377.792		
1,200.00	1,200.00	1,176.00	1,176.00	4.08	19.61	147.05	-6,842.39	4,434.50	8,153.72	8,130.04	23.69	344.237		
1,300.00	1,299.98	1,275.98	1,275.98	4.43	21.35	99.94	-6,842.39	4,434.50	8,154.02	8,128.24	25.79	316.206		
1,400.00	1,399.84	1,375.84	1,375.84	4.79	23.10	99.96	-6,842.39	4,434.50	8,154.93	8,127.04	27.88	292.456		
1,500.00	1,499.45	1,475.45	1,475.45	5.15	24.84	99.99	-6,842.39	4,434.50	8,156.44	8,126.46	29.98	272.053		
1,600.00	1,598.70	1,574.70	1,574.70	5.51	26.57	100.03	-6,842.39	4,434.50	8,158.58	8,126.50	32.08	254.331		
1,700.00	1,697.47	1,673.47	1,673.47	5.89	28.29	100.08	-6,842.39	4,434.50	8,161.34	8,127.16	34.18	238.783		
1,800.00	1,795.62	1,771.62	1,771.62	6.28	30.00	100.14	-6,842.39	4,434.50	8,164.75	8,128.47	36.28	225.021		
1,900.00	1,893.06	1,869.06	1,869.06	6.69	31.70	100.21	-6,842.39	4,434.50	8,168.83	8,130.43	38.40	212.739		
2,000.00	1,989.64	1,965.64	1,965.64	7.13	33.39	100.29	-6,842.39	4,434.50	8,173.59	8,133.07	40.52	201.699		
2,100.00	2,085.27	2,061.27	2,061.27	7.61	35.06	100.38	-6,842.39	4,434.50	8,179.07	8,136.41	42.66	191.712		
2,200.00	2,179.82	2,155.82	2,155.82	8.12	36.71	100.47	-6,842.39	4,434.50	8,185.29	8,140.47	44.82	182.624		
2,300.00	2,273.17	2,249.17	2,249.17	8.67	38.34	100.56	-6,842.39	4,434.50	8,192.28	8,145.28	47.00	174.314		
2,400.00	2,365.21	2,341.21	2,341.21	9.27	39.95	100.65	-6,842.39	4,434.50	8,200.07	8,150.87	49.20	166.681		
2,500.00	2,455.84	2,431.84	2,431.84	9.92	41.53	100.75	-6,842.39	4,434.50	8,208.70	8,157.28	51.42	159.645		
2,580.62	2,527.80	2,503.80	2,503.80	10.49	42.78	100.82	-6,842.39	4,434.50	8,216.29	8,163.06	53.23	154.360		
2,600.00	2,544.97	2,520.97	2,520.97	10.63	43.08	100.88	-6,842.39	4,434.50	8,218.19	8,164.52	53.66	153.139		
2,700.00	2,633.58	2,609.58	2,609.58	11.37	44.63	101.16	-6,842.39	4,434.50	8,228.14	8,172.20	55.94	147.099		
2,800.00	2,722.19	2,701.81	2,698.19	12.13	46.24	101.44	-6,842.39	4,434.50	8,238.33	8,180.04	58.29	141.332		
2,900.00	2,810.80	2,786.80	2,786.80	12.91	47.72	101.72	-6,842.39	4,434.50	8,248.78	8,188.24	60.53	136.265		
3,000.00	2,899.41	2,875.41	2,875.41	13.71	49.27	102.00	-6,842.39	4,434.50	8,259.47	8,196.61	62.86	131.404		
3,100.00	2,988.02	2,964.02	2,964.02	14.52	50.82	102.28	-6,842.39	4,434.50	8,270.40	8,205.22	65.19	126.873		
3,200.00	3,076.63	3,052.63	3,052.63	15.34	52.36	102.56	-6,842.39	4,434.50	8,281.58	8,214.06	67.53	122.643		
3,300.00	3,165.24	3,141.24	3,141.24	16.16	53.91	102.84	-6,842.39	4,434.50	8,293.01	8,223.14	69.87	118.687		
3,400.00	3,253.85	3,229.85	3,229.85	17.00	55.46	103.12	-6,842.39	4,434.50	8,304.68	8,232.45	72.22	114.984		
3,500.00	3,342.46	3,318.46	3,318.46	17.84	57.00	103.40	-6,842.39	4,434.50	8,316.59	8,242.01	74.58	111.510		
3,600.00	3,431.07	3,407.07	3,407.07	18.69	58.55	103.67	-6,842.39	4,434.50	8,328.74	8,251.80	76.94	108.247		
3,700.00	3,519.68	3,504.32	3,495.68	19.55	60.25	103.95	-6,842.39	4,434.50	8,341.13	8,261.68	79.46	104.979		
3,800.00	3,608.29	3,584.29	3,584.29	20.40	61.64	104.23	-6,842.39	4,434.50	8,353.76	8,272.09	81.67	102.287		
3,900.00	3,696.90	3,672.90	3,672.90	21.26	63.19	104.50	-6,842.39	4,434.50	8,366.63	8,282.59	84.04	99.559		
4,000.00	3,785.51	3,761.51	3,761.51	22.13	64.73	104.77	-6,842.39	4,434.50	8,379.73	8,293.33	86.40	96.983		
4,100.00	3,874.12	3,850.12	3,850.12	23.00	66.28	105.05	-6,842.39	4,434.50	8,393.07	8,304.30	88.77	94.545		
4,200.00	3,962.73	3,938.73	3,938.73	23.87	67.83	105.32	-6,842.39	4,434.50	8,406.65	8,315.50	91.14	92.237		
4,300.00	4,051.34	4,027.34	4,027.34	24.74	69.37	105.59	-6,842.39	4,434.50	8,420.45	8,326.94	93.51	90.048		
4,400.00	4,139.95	4,115.95	4,115.95	25.62	70.92	105.86	-6,842.39	4,434.50	8,434.49	8,338.61	95.88	87.970		
4,500.00	4,228.56	4,204.56	4,204.56	26.49	72.47	106.14	-6,842.39	4,434.50	8,448.76	8,350.52	98.25	85.995		
4,600.00	4,317.17	4,306.83	4,293.17	27.37	74.25	106.41	-6,842.39	4,434.50	8,463.26	8,362.41	100.85	83.917		
4,700.00	4,405.78	4,381.78	4,381.78	28.25	75.56	106.67	-6,842.39	4,434.50	8,477.99	8,375.01	102.98	82.326		
4,800.00	4,494.39	4,470.39	4,470.39	29.13	77.11	106.94	-6,842.39	4,434.50	8,492.95	8,387.60	105.35	80.619		
4,900.00	4,583.00	4,559.00	4,559.00	30.02	78.65	107.21	-6,842.39	4,434.50	8,508.13	8,400.42	107.71	78.991		
5,000.00	4,671.61	4,647.61	4,647.61	30.90	80.20	107.48	-6,842.39	4,434.50	8,523.54	8,413.47	110.07	77.435		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,760.22	4,736.22	4,736.22	31.79	81.75	107.74	-6,842.39	4,434.50	8,539.17	8,426.74	112.43	75.948		
5,200.00	4,848.83	4,824.83	4,824.83	32.67	83.29	108.01	-6,842.39	4,434.50	8,555.02	8,440.23	114.79	74.525		
5,300.00	4,937.44	4,913.44	4,913.44	33.56	84.84	108.27	-6,842.39	4,434.50	8,571.10	8,453.95	117.15	73.163		
5,400.00	5,026.05	5,002.05	5,002.05	34.45	86.39	108.54	-6,842.39	4,434.50	8,587.39	8,467.89	119.51	71.857		
5,500.00	5,114.66	5,050.00	5,050.00	35.34	87.22	108.68	-6,842.39	4,434.50	8,604.00	8,482.86	121.14	71.024		
5,600.00	5,203.27	5,050.00	5,050.00	36.23	87.22	108.68	-6,842.39	4,434.50	8,621.61	8,499.69	121.92	70.716		
5,700.00	5,291.88	5,050.00	5,050.00	37.12	87.22	108.68	-6,842.39	4,434.50	8,640.33	8,517.66	122.68	70.431		
5,800.00	5,380.50	5,050.00	5,050.00	38.01	87.22	108.68	-6,842.39	4,434.50	8,660.17	8,536.75	123.42	70.166		
5,900.00	5,469.11	5,050.00	5,050.00	38.90	87.22	108.68	-6,842.39	4,434.50	8,681.12	8,556.97	124.15	69.923		
6,000.00	5,557.72	5,050.00	5,050.00	39.79	87.22	108.68	-6,842.39	4,434.50	8,703.17	8,578.30	124.87	69.700		
6,100.00	5,646.33	5,050.00	5,050.00	40.68	87.22	108.68	-6,842.39	4,434.50	8,726.30	8,600.74	125.56	69.497		
6,200.00	5,734.94	5,050.00	5,050.00	41.58	87.22	108.68	-6,842.39	4,434.50	8,750.52	8,624.28	126.24	69.314		
6,300.00	5,823.55	5,050.00	5,050.00	42.47	87.22	108.68	-6,842.39	4,434.50	8,775.81	8,648.90	126.91	69.150		
6,400.00	5,912.16	5,050.00	5,050.00	43.36	87.22	108.68	-6,842.39	4,434.50	8,802.17	8,674.61	127.56	69.005		
6,500.00	6,000.77	5,050.00	5,050.00	44.26	87.22	108.68	-6,842.39	4,434.50	8,829.57	8,701.38	128.19	68.878		
6,600.00	6,089.38	5,050.00	5,050.00	45.15	87.22	108.68	-6,842.39	4,434.50	8,858.03	8,729.22	128.81	68.768		
6,700.00	6,177.99	5,050.00	5,050.00	46.05	87.22	108.68	-6,842.39	4,434.50	8,887.51	8,758.10	129.41	68.676		
6,800.00	6,266.60	5,050.00	5,050.00	46.94	87.22	108.68	-6,842.39	4,434.50	8,918.02	8,788.02	130.00	68.601		
6,900.00	6,355.21	5,050.00	5,050.00	47.84	87.22	108.68	-6,842.39	4,434.50	8,949.55	8,818.98	130.57	68.543		
7,000.00	6,443.82	5,050.00	5,050.00	48.74	87.22	108.68	-6,842.39	4,434.50	8,982.07	8,850.95	131.12	68.501		
7,100.00	6,532.43	5,050.00	5,050.00	49.63	87.22	108.68	-6,842.39	4,434.50	9,015.59	8,883.93	131.66	68.475		
7,200.00	6,621.04	5,050.00	5,050.00	50.53	87.22	108.68	-6,842.39	4,434.50	9,050.09	8,917.90	132.19	68.464		
7,300.00	6,709.65	5,050.00	5,050.00	51.42	87.22	108.68	-6,842.39	4,434.50	9,085.56	8,952.86	132.70	68.469		
7,400.00	6,798.26	5,050.00	5,050.00	52.32	87.22	108.68	-6,842.39	4,434.50	9,121.99	8,988.79	133.19	68.488		
7,500.00	6,886.87	5,050.00	5,050.00	53.22	87.22	108.68	-6,842.39	4,434.50	9,159.36	9,025.69	133.67	68.522		
7,600.00	6,975.48	5,050.00	5,050.00	54.12	87.22	108.68	-6,842.39	4,434.50	9,197.67	9,063.53	134.14	68.569		
7,656.30	7,025.36	5,050.00	5,050.00	54.62	87.22	108.68	-6,842.39	4,434.50	9,219.64	9,085.25	134.39	68.602		
7,700.00	7,064.54	5,050.00	5,050.00	55.00	87.22	102.13	-6,842.39	4,434.50	9,235.46	9,100.88	134.58	68.624		
7,750.00	7,110.29	5,050.00	5,050.00	55.40	87.22	92.62	-6,842.39	4,434.50	9,250.16	9,115.38	134.78	68.633		
7,800.00	7,156.67	5,050.00	5,050.00	55.75	87.22	81.10	-6,842.39	4,434.50	9,261.14	9,126.19	134.95	68.627		
7,850.00	7,203.34	5,050.00	5,050.00	56.05	87.22	68.39	-6,842.39	4,434.50	9,268.35	9,133.25	135.09	68.607		
7,900.00	7,249.95	5,050.00	5,050.00	56.30	87.22	55.80	-6,842.39	4,434.50	9,271.72	9,136.52	135.20	68.576		
7,950.00	7,296.14	5,050.00	5,050.00	56.50	87.22	44.52	-6,842.39	4,434.50	9,271.25	9,135.97	135.28	68.533		
8,000.00	7,341.56	5,050.00	5,050.00	56.64	87.22	35.07	-6,842.39	4,434.50	9,266.93	9,131.60	135.33	68.479		
8,050.00	7,385.86	5,050.00	5,050.00	56.74	87.22	27.41	-6,842.39	4,434.50	9,258.79	9,123.45	135.34	68.413		
8,100.00	7,428.71	5,050.00	5,050.00	56.79	87.22	21.21	-6,842.39	4,434.50	9,246.88	9,111.56	135.32	68.334		
8,150.00	7,469.77	5,050.00	5,050.00	56.80	87.22	16.12	-6,842.39	4,434.50	9,231.28	9,096.01	135.27	68.243		
8,200.00	7,508.75	5,050.00	5,050.00	56.77	87.22	11.82	-6,842.39	4,434.50	9,212.09	9,076.89	135.20	68.138		
8,250.00	7,545.33	5,050.00	5,050.00	56.70	87.22	8.06	-6,842.39	4,434.50	9,189.43	9,054.33	135.10	68.020		
8,300.00	7,579.25	5,050.00	5,050.00	56.59	87.22	4.63	-6,842.39	4,434.50	9,163.46	9,028.48	134.98	67.888		
8,350.00	7,610.24	5,050.00	5,050.00	56.45	87.22	1.37	-6,842.39	4,434.50	9,134.33	8,999.49	134.84	67.743		
8,400.00	7,638.06	5,050.00	5,050.00	56.28	87.22	-1.90	-6,842.39	4,434.50	9,102.25	8,967.57	134.68	67.584		
8,450.00	7,662.52	5,050.00	5,050.00	56.09	87.22	-5.31	-6,842.39	4,434.50	9,067.43	8,932.92	134.51	67.412		
8,500.00	7,683.41	5,050.00	5,050.00	55.88	87.22	-9.05	-6,842.39	4,434.50	9,030.10	8,895.77	134.32	67.226		
8,550.00	7,700.59	5,050.00	5,050.00	55.64	87.22	-13.33	-6,842.39	4,434.50	8,990.51	8,856.38	134.13	67.027		
8,600.00	7,713.91	5,050.00	5,050.00	55.39	87.22	-18.41	-6,842.39	4,434.50	8,948.95	8,815.01	133.93	66.816		
8,650.00	7,723.29	5,050.00	5,050.00	55.14	87.22	-24.63	-6,842.39	4,434.50	8,905.70	8,771.96	133.74	66.592		
8,700.00	7,728.64	5,050.00	5,050.00	54.87	87.22	-32.35	-6,842.39	4,434.50	8,861.07	8,727.53	133.54	66.356		
8,740.83	7,730.00	5,050.00	5,050.00	54.65	87.22	-40.04	-6,842.39	4,434.50	8,823.82	8,690.44	133.38	66.156		
8,800.00	7,730.00	5,050.00	5,050.00	54.33	87.22	-40.04	-6,842.39	4,434.50	8,769.44	8,636.29	133.15	65.862		
8,900.00	7,730.00	5,050.00	5,050.00	53.82	87.22	-40.04	-6,842.39	4,434.50	8,677.69	8,544.94	132.75	65.366		
9,000.00	7,730.00	5,050.00	5,050.00	53.33	87.22	-40.04	-6,842.39	4,434.50	8,586.12	8,453.77	132.36	64.871		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,050.00	5,050.00	52.87	87.22	-40.04	-6,842.39	4,434.50	8,494.74	8,362.79	131.96	64.376		
9,200.00	7,730.00	5,050.00	5,050.00	52.44	87.22	-40.04	-6,842.39	4,434.50	8,403.56	8,272.01	131.55	63.881		
9,300.00	7,730.00	5,050.00	5,050.00	52.03	87.22	-40.04	-6,842.39	4,434.50	8,312.58	8,181.44	131.14	63.387		
9,400.00	7,730.00	5,050.00	5,050.00	51.65	87.22	-40.04	-6,842.39	4,434.50	8,221.82	8,091.09	130.73	62.893		
9,500.00	7,730.00	5,050.00	5,050.00	51.29	87.22	-40.04	-6,842.39	4,434.50	8,131.26	8,000.95	130.31	62.399		
9,600.00	7,730.00	5,050.00	5,050.00	50.95	87.22	-40.04	-6,842.39	4,434.50	8,040.93	7,911.04	129.89	61.905		
9,700.00	7,730.00	5,050.00	5,050.00	50.64	87.22	-40.04	-6,842.39	4,434.50	7,950.84	7,821.37	129.47	61.411		
9,800.00	7,730.00	5,050.00	5,050.00	50.35	87.22	-40.04	-6,842.39	4,434.50	7,860.98	7,731.93	129.05	60.916		
9,900.00	7,730.00	5,050.00	5,050.00	50.09	87.22	-40.04	-6,842.39	4,434.50	7,771.37	7,642.75	128.62	60.421		
10,000.00	7,730.00	5,050.00	5,050.00	49.86	87.22	-40.04	-6,842.39	4,434.50	7,682.02	7,553.83	128.19	59.926		
10,100.00	7,730.00	5,050.00	5,050.00	49.65	87.22	-40.04	-6,842.39	4,434.50	7,592.93	7,465.17	127.76	59.430		
10,200.00	7,730.00	5,050.00	5,050.00	49.48	87.22	-40.04	-6,842.39	4,434.50	7,504.12	7,376.78	127.33	58.933		
10,300.00	7,730.00	5,050.00	5,050.00	49.35	87.22	-40.04	-6,842.39	4,434.50	7,415.59	7,288.68	126.90	58.435		
10,400.00	7,730.00	5,050.00	5,050.00	49.27	87.22	-40.04	-6,842.39	4,434.50	7,327.35	7,200.88	126.47	57.936		
10,500.00	7,730.00	5,050.00	5,050.00	49.26	87.22	-40.04	-6,842.39	4,434.50	7,239.43	7,113.38	126.05	57.435		
10,600.00	7,730.00	5,050.00	5,050.00	49.32	87.22	-40.04	-6,842.39	4,434.50	7,151.82	7,026.20	125.62	56.932		
10,700.00	7,730.00	5,050.00	5,050.00	49.51	87.22	-40.04	-6,842.39	4,434.50	7,064.54	6,939.34	125.20	56.427		
10,800.00	7,730.00	5,050.00	5,050.00	49.83	87.22	-40.04	-6,842.39	4,434.50	6,977.60	6,852.82	124.78	55.919		
10,900.00	7,730.00	5,050.00	5,050.00	50.31	87.22	-40.04	-6,842.39	4,434.50	6,891.01	6,766.65	124.37	55.408		
11,000.00	7,730.00	5,050.00	5,050.00	50.96	87.22	-40.04	-6,842.39	4,434.50	6,804.80	6,680.83	123.96	54.894		
11,100.00	7,730.00	5,050.00	5,050.00	51.75	87.22	-40.04	-6,842.39	4,434.50	6,718.96	6,595.40	123.56	54.377		
11,200.00	7,730.00	5,050.00	5,050.00	52.66	87.22	-40.04	-6,842.39	4,434.50	6,633.52	6,510.35	123.17	53.855		
11,300.00	7,730.00	5,050.00	5,050.00	53.67	87.22	-40.04	-6,842.39	4,434.50	6,548.50	6,425.70	122.80	53.328		
11,400.00	7,730.00	5,050.00	5,050.00	54.75	87.22	-40.04	-6,842.39	4,434.50	6,463.90	6,341.47	122.43	52.797		
11,500.00	7,730.00	5,050.00	5,050.00	55.89	87.22	-40.04	-6,842.39	4,434.50	6,379.75	6,257.67	122.08	52.259		
11,600.00	7,730.00	5,050.00	5,050.00	57.07	87.22	-40.04	-6,842.39	4,434.50	6,296.06	6,174.32	121.74	51.716		
11,700.00	7,730.00	5,050.00	5,050.00	58.30	87.22	-40.04	-6,842.39	4,434.50	6,212.86	6,091.43	121.43	51.166		
11,800.00	7,730.00	5,050.00	5,050.00	59.55	87.22	-40.04	-6,842.39	4,434.50	6,130.15	6,009.02	121.13	50.608		
11,900.00	7,730.00	5,050.00	5,050.00	60.84	87.22	-40.04	-6,842.39	4,434.50	6,047.97	5,927.11	120.86	50.043		
12,000.00	7,730.00	5,050.00	5,050.00	62.15	87.22	-40.04	-6,842.39	4,434.50	5,966.33	5,845.73	120.61	49.469		
12,100.00	7,730.00	5,050.00	5,050.00	63.49	87.22	-40.04	-6,842.39	4,434.50	5,885.26	5,764.88	120.39	48.887		
12,200.00	7,730.00	5,050.00	5,050.00	64.85	87.22	-40.04	-6,842.39	4,434.50	5,804.78	5,684.59	120.19	48.295		
12,300.00	7,730.00	5,050.00	5,050.00	66.22	87.22	-40.04	-6,842.39	4,434.50	5,724.92	5,604.88	120.04	47.693		
12,400.00	7,730.00	5,050.00	5,050.00	67.62	87.22	-40.04	-6,842.39	4,434.50	5,645.70	5,525.78	119.91	47.081		
12,500.00	7,730.00	5,050.00	5,050.00	69.03	87.22	-40.04	-6,842.39	4,434.50	5,567.14	5,447.31	119.83	46.458		
12,600.00	7,730.00	5,050.00	5,050.00	70.45	87.22	-40.04	-6,842.39	4,434.50	5,489.29	5,369.50	119.79	45.825		
12,700.00	7,730.00	5,050.00	5,050.00	71.90	87.22	-40.04	-6,842.39	4,434.50	5,412.16	5,292.37	119.79	45.181		
12,800.00	7,730.00	5,050.00	5,050.00	73.35	87.22	-40.04	-6,842.39	4,434.50	5,335.79	5,215.95	119.84	44.526		
12,900.00	7,730.00	5,050.00	5,050.00	74.81	87.22	-40.04	-6,842.39	4,434.50	5,260.21	5,140.28	119.93	43.860		
13,000.00	7,730.00	5,050.00	5,050.00	76.29	87.22	-40.04	-6,842.39	4,434.50	5,185.46	5,065.38	120.08	43.183		
13,100.00	7,730.00	5,050.00	5,050.00	77.78	87.22	-40.04	-6,842.39	4,434.50	5,111.58	4,991.29	120.28	42.496		
13,200.00	7,730.00	5,050.00	5,050.00	79.28	87.22	-40.04	-6,842.39	4,434.50	5,038.59	4,918.05	120.54	41.799		
13,300.00	7,730.00	5,050.00	5,050.00	80.79	87.22	-40.04	-6,842.39	4,434.50	4,966.55	4,845.68	120.86	41.093		
13,400.00	7,730.00	5,050.00	5,050.00	82.31	87.22	-40.04	-6,842.39	4,434.50	4,895.48	4,774.24	121.24	40.379		
13,500.00	7,730.00	5,050.00	5,050.00	83.84	87.22	-40.04	-6,842.39	4,434.50	4,825.45	4,703.77	121.68	39.657		
13,600.00	7,730.00	5,050.00	5,050.00	85.37	87.22	-40.04	-6,842.39	4,434.50	4,756.48	4,634.30	122.18	38.929		
13,700.00	7,730.00	5,050.00	5,050.00	86.92	87.22	-40.04	-6,842.39	4,434.50	4,688.64	4,565.89	122.75	38.197		
13,800.00	7,730.00	5,050.00	5,050.00	88.47	87.22	-40.04	-6,842.39	4,434.50	4,621.96	4,498.58	123.38	37.460		
13,900.00	7,730.00	5,050.00	5,050.00	90.03	87.22	-40.04	-6,842.39	4,434.50	4,556.50	4,432.42	124.08	36.721		
14,000.00	7,730.00	5,050.00	5,050.00	91.59	87.22	-40.04	-6,842.39	4,434.50	4,492.31	4,367.47	124.85	35.982		
14,100.00	7,730.00	5,050.00	5,050.00	93.16	87.22	-40.04	-6,842.39	4,434.50	4,429.46	4,303.77	125.68	35.243		
14,200.00	7,730.00	5,050.00	5,050.00	94.74	87.22	-40.04	-6,842.39	4,434.50	4,367.98	4,241.40	126.58	34.507		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	5,050.00	5,050.00	96.33	87.22	-40.04	-6,842.39	4,434.50	4,307.95	4,180.41	127.55	33.775		
14,400.00	7,730.00	5,050.00	5,050.00	97.92	87.22	-40.04	-6,842.39	4,434.50	4,249.43	4,120.85	128.58	33.049		
14,500.00	7,730.00	5,050.00	5,050.00	99.51	87.22	-40.04	-6,842.39	4,434.50	4,192.47	4,062.80	129.68	32.331		
14,600.00	7,730.00	5,050.00	5,050.00	101.11	87.22	-40.04	-6,842.39	4,434.50	4,137.15	4,006.31	130.84	31.621		
14,700.00	7,730.00	5,050.00	5,050.00	102.72	87.22	-40.04	-6,842.39	4,434.50	4,083.53	3,951.47	132.06	30.922		
14,800.00	7,730.00	5,050.00	5,050.00	104.33	87.22	-40.04	-6,842.39	4,434.50	4,031.67	3,898.33	133.35	30.235		
14,900.00	7,730.00	5,050.00	5,050.00	105.94	87.22	-40.04	-6,842.39	4,434.50	3,981.66	3,846.96	134.69	29.561		
15,000.00	7,730.00	5,050.00	5,050.00	107.56	87.22	-40.04	-6,842.39	4,434.50	3,933.54	3,797.45	136.10	28.903		
15,100.00	7,730.00	5,050.00	5,050.00	109.18	87.22	-40.04	-6,842.39	4,434.50	3,887.41	3,749.85	137.56	28.260		
15,200.00	7,730.00	5,050.00	5,050.00	110.81	87.22	-40.04	-6,842.39	4,434.50	3,843.32	3,704.25	139.07	27.635		
15,300.00	7,730.00	5,050.00	5,050.00	112.44	87.22	-40.04	-6,842.39	4,434.50	3,801.36	3,660.72	140.64	27.029		
15,400.00	7,730.00	5,050.00	5,050.00	114.08	87.22	-40.04	-6,842.39	4,434.50	3,761.59	3,619.32	142.26	26.441		
15,500.00	7,730.00	5,050.00	5,050.00	115.72	87.22	-40.04	-6,842.39	4,434.50	3,724.07	3,580.14	143.93	25.875		
15,600.00	7,730.00	5,050.00	5,050.00	117.36	87.22	-40.04	-6,842.39	4,434.50	3,688.89	3,543.25	145.64	25.329		
15,700.00	7,730.00	5,050.00	5,050.00	119.00	87.22	-40.04	-6,842.39	4,434.50	3,656.10	3,508.71	147.39	24.805		
15,800.00	7,730.00	5,050.00	5,050.00	120.65	87.22	-40.04	-6,842.39	4,434.50	3,625.78	3,476.59	149.19	24.303		
15,900.00	7,730.00	5,050.00	5,050.00	122.30	87.22	-40.04	-6,842.39	4,434.50	3,597.98	3,446.96	151.02	23.825		
16,000.00	7,730.00	5,050.00	5,050.00	123.96	87.22	-40.04	-6,842.39	4,434.50	3,572.77	3,419.88	152.88	23.369		
16,100.00	7,730.00	5,050.00	5,050.00	125.61	87.22	-40.04	-6,842.39	4,434.50	3,550.19	3,395.41	154.77	22.938		
16,200.00	7,730.00	5,050.00	5,050.00	127.27	87.22	-40.04	-6,842.39	4,434.50	3,530.30	3,373.61	156.69	22.530		
16,300.00	7,730.00	5,050.00	5,050.00	128.94	87.22	-40.04	-6,842.39	4,434.50	3,513.15	3,354.51	158.63	22.146		
16,400.00	7,730.00	5,050.00	5,050.00	130.60	87.22	-40.04	-6,842.39	4,434.50	3,498.77	3,338.18	160.59	21.786		
16,500.00	7,730.00	5,050.00	5,050.00	132.27	87.22	-40.04	-6,842.39	4,434.50	3,487.20	3,324.64	162.57	21.451		
16,600.00	7,730.00	5,050.00	5,050.00	133.94	87.22	-40.04	-6,842.39	4,434.50	3,478.47	3,313.93	164.55	21.140		
16,700.00	7,730.00	5,050.00	5,050.00	135.61	87.22	-40.04	-6,842.39	4,434.50	3,472.60	3,306.07	166.53	20.853		
16,800.00	7,730.00	5,050.00	5,050.00	137.28	87.22	-40.04	-6,842.39	4,434.50	3,469.60	3,301.09	168.51	20.590		
16,854.06	7,730.00	5,050.00	5,050.00	138.19	87.22	-40.04	-6,842.39	4,434.50	3,469.18	3,299.60	169.58	20.458 CC		
16,900.00	7,730.00	5,050.00	5,050.00	138.96	87.22	-40.04	-6,842.39	4,434.50	3,469.49	3,299.00	170.48	20.351 ES		
17,000.00	7,730.00	5,050.00	5,050.00	140.64	87.22	-40.04	-6,842.39	4,434.50	3,472.25	3,299.81	172.44	20.136		
17,100.00	7,730.00	5,050.00	5,050.00	142.32	87.22	-40.04	-6,842.39	4,434.50	3,477.89	3,303.51	174.38	19.944		
17,200.00	7,730.00	5,050.00	5,050.00	144.00	87.22	-40.04	-6,842.39	4,434.50	3,486.39	3,310.09	176.30	19.776		
17,300.00	7,730.00	5,050.00	5,050.00	145.69	87.22	-40.04	-6,842.39	4,434.50	3,497.73	3,319.55	178.18	19.630		
17,400.00	7,730.00	5,050.00	5,050.00	147.37	87.22	-40.04	-6,842.39	4,434.50	3,511.88	3,331.85	180.02	19.508		
17,500.00	7,730.00	5,050.00	5,050.00	149.06	87.22	-40.04	-6,842.39	4,434.50	3,528.81	3,346.98	181.82	19.408		
17,600.00	7,730.00	5,050.00	5,050.00	150.75	87.22	-40.04	-6,842.39	4,434.50	3,548.47	3,364.90	183.58	19.330		
17,700.00	7,730.00	5,050.00	5,050.00	152.44	87.22	-40.04	-6,842.39	4,434.50	3,570.83	3,385.56	185.28	19.273		
17,800.00	7,730.00	5,050.00	5,050.00	154.13	87.22	-40.04	-6,842.39	4,434.50	3,595.84	3,408.92	186.92	19.238		
17,900.00	7,730.00	5,050.00	5,050.00	155.83	87.22	-40.04	-6,842.39	4,434.50	3,623.43	3,434.93	188.50	19.223 SF		
18,000.00	7,730.00	5,050.00	5,050.00	157.52	87.22	-40.04	-6,842.39	4,434.50	3,653.55	3,463.54	190.01	19.228		
18,100.00	7,730.00	5,050.00	5,050.00	159.22	87.22	-40.04	-6,842.39	4,434.50	3,686.14	3,494.68	191.45	19.253		
18,200.00	7,730.00	5,050.00	5,050.00	160.92	87.22	-40.04	-6,842.39	4,434.50	3,721.13	3,528.30	192.83	19.297		
18,300.00	7,730.00	5,050.00	5,050.00	162.62	87.22	-40.04	-6,842.39	4,434.50	3,758.45	3,564.32	194.14	19.360		
18,400.00	7,730.00	5,050.00	5,050.00	164.32	87.22	-40.04	-6,842.39	4,434.50	3,798.05	3,602.68	195.37	19.440		
18,426.22	7,730.00	5,050.00	5,050.00	164.76	87.22	-40.04	-6,842.39	4,434.50	3,808.79	3,613.12	195.68	19.464		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	151.61	-8,182.61	4,422.42	9,301.29					
100.00	100.00	67.00	67.00	0.13	0.56	151.61	-8,182.61	4,422.42	9,301.23	9,300.54	0.69	N/A		
200.00	200.00	167.00	167.00	0.49	2.00	151.61	-8,182.61	4,422.42	9,301.23	9,298.74	2.49	3,733.483		
300.00	300.00	267.00	267.00	0.85	3.74	151.61	-8,182.61	4,422.42	9,301.23	9,296.64	4.60	2,024.162		
400.00	400.00	367.00	367.00	1.21	5.49	151.61	-8,182.61	4,422.42	9,301.23	9,294.53	6.70	1,388.471		
500.00	500.00	467.00	467.00	1.57	7.23	151.61	-8,182.61	4,422.42	9,301.23	9,292.43	8.80	1,056.633		
600.00	600.00	567.00	567.00	1.93	8.98	151.61	-8,182.61	4,422.42	9,301.23	9,290.33	10.91	852.815		
700.00	700.00	667.00	667.00	2.29	10.73	151.61	-8,182.61	4,422.42	9,301.23	9,288.22	13.01	714.913		
800.00	800.00	767.00	767.00	2.64	12.47	151.61	-8,182.61	4,422.42	9,301.23	9,286.12	15.11	615.401		
900.00	900.00	867.00	867.00	3.00	14.22	151.61	-8,182.61	4,422.42	9,301.23	9,284.01	17.22	540.207		
1,000.00	1,000.00	967.00	967.00	3.36	15.96	151.61	-8,182.61	4,422.42	9,301.23	9,281.91	19.32	481.388		
1,100.00	1,100.00	1,067.00	1,067.00	3.72	17.71	151.61	-8,182.61	4,422.42	9,301.23	9,279.81	21.43	434.120		
1,200.00	1,200.00	1,167.00	1,167.00	4.08	19.45	151.61	-8,182.61	4,422.42	9,301.23	9,277.70	23.53	395.304		
1,300.00	1,299.98	1,266.98	1,266.98	4.43	21.20	104.49	-8,182.61	4,422.42	9,301.67	9,276.04	25.63	362.921		
1,400.00	1,399.84	1,366.84	1,366.84	4.79	22.94	104.50	-8,182.61	4,422.42	9,302.98	9,275.25	27.73	335.515		
1,500.00	1,499.45	1,466.45	1,466.45	5.15	24.68	104.51	-8,182.61	4,422.42	9,305.17	9,275.35	29.82	311.999		
1,600.00	1,598.70	1,565.70	1,565.70	5.51	26.41	104.52	-8,182.61	4,422.42	9,308.25	9,276.32	31.92	291.594		
1,700.00	1,697.47	1,664.47	1,664.47	5.89	28.13	104.53	-8,182.61	4,422.42	9,312.22	9,278.19	34.02	273.712		
1,800.00	1,795.62	1,762.62	1,762.62	6.28	29.85	104.55	-8,182.61	4,422.42	9,317.09	9,280.97	36.13	257.899		
1,900.00	1,893.06	1,860.06	1,860.06	6.69	31.55	104.57	-8,182.61	4,422.42	9,322.89	9,284.65	38.24	243.803		
2,000.00	1,989.64	1,956.64	1,956.64	7.13	33.23	104.59	-8,182.61	4,422.42	9,329.62	9,289.25	40.36	231.146		
2,100.00	2,085.27	2,052.27	2,052.27	7.61	34.90	104.61	-8,182.61	4,422.42	9,337.30	9,294.80	42.50	219.706		
2,200.00	2,179.82	2,146.82	2,146.82	8.12	36.55	104.62	-8,182.61	4,422.42	9,345.96	9,301.30	44.65	209.308		
2,300.00	2,273.17	2,240.17	2,240.17	8.67	38.18	104.63	-8,182.61	4,422.42	9,355.60	9,308.78	46.82	199.809		
2,400.00	2,365.21	2,332.21	2,332.21	9.27	39.79	104.64	-8,182.61	4,422.42	9,366.27	9,317.26	49.01	191.092		
2,500.00	2,455.84	2,422.84	2,422.84	9.92	41.37	104.64	-8,182.61	4,422.42	9,377.98	9,326.75	51.23	183.063		
2,580.62	2,527.80	2,505.20	2,494.80	10.49	42.81	104.63	-8,182.61	4,422.42	9,388.19	9,334.98	53.21	176.434		
2,600.00	2,544.97	2,511.97	2,511.97	10.63	42.93	104.68	-8,182.61	4,422.42	9,390.73	9,337.27	53.46	175.646		
2,700.00	2,633.58	2,600.58	2,600.58	11.37	44.47	104.92	-8,182.61	4,422.42	9,403.98	9,348.25	55.72	168.761		
2,800.00	2,722.19	2,689.19	2,689.19	12.13	46.02	105.17	-8,182.61	4,422.42	9,417.43	9,359.43	58.00	162.363		
2,900.00	2,810.80	2,777.80	2,777.80	12.91	47.57	105.41	-8,182.61	4,422.42	9,431.09	9,370.80	60.30	156.410		
3,000.00	2,899.41	2,866.41	2,866.41	13.71	49.11	105.65	-8,182.61	4,422.42	9,444.97	9,382.36	62.60	150.867		
3,100.00	2,988.02	2,955.02	2,955.02	14.52	50.66	105.90	-8,182.61	4,422.42	9,459.04	9,394.12	64.92	145.697		
3,200.00	3,076.63	3,043.63	3,043.63	15.34	52.21	106.14	-8,182.61	4,422.42	9,473.33	9,406.08	67.25	140.870		
3,300.00	3,165.24	3,132.24	3,132.24	16.16	53.75	106.38	-8,182.61	4,422.42	9,487.82	9,418.24	69.58	136.355		
3,400.00	3,253.85	3,220.85	3,220.85	17.00	55.30	106.62	-8,182.61	4,422.42	9,502.51	9,430.59	71.92	132.126		
3,500.00	3,342.46	3,309.46	3,309.46	17.84	56.84	106.86	-8,182.61	4,422.42	9,517.41	9,443.14	74.26	128.159		
3,600.00	3,431.07	3,401.93	3,398.07	18.69	58.46	107.10	-8,182.61	4,422.42	9,532.51	9,455.83	76.68	124.321		
3,700.00	3,519.68	3,486.68	3,486.68	19.55	59.94	107.34	-8,182.61	4,422.42	9,547.80	9,468.85	78.96	120.923		
3,800.00	3,608.29	3,575.29	3,575.29	20.40	61.48	107.57	-8,182.61	4,422.42	9,563.30	9,482.00	81.31	117.617		
3,900.00	3,696.90	3,663.90	3,663.90	21.26	63.03	107.81	-8,182.61	4,422.42	9,579.00	9,495.34	83.66	114.497		
4,000.00	3,785.51	3,752.51	3,752.51	22.13	64.58	108.05	-8,182.61	4,422.42	9,594.90	9,508.88	86.02	111.548		
4,100.00	3,874.12	3,841.12	3,841.12	23.00	66.12	108.28	-8,182.61	4,422.42	9,610.99	9,522.62	88.37	108.759		
4,200.00	3,962.73	3,929.73	3,929.73	23.87	67.67	108.52	-8,182.61	4,422.42	9,627.28	9,536.56	90.72	106.115		
4,300.00	4,051.34	4,018.34	4,018.34	24.74	69.22	108.75	-8,182.61	4,422.42	9,643.77	9,550.69	93.08	103.608		
4,400.00	4,139.95	4,106.95	4,106.95	25.62	70.76	108.99	-8,182.61	4,422.42	9,660.45	9,565.02	95.43	101.226		
4,500.00	4,228.56	4,204.44	4,195.56	26.49	72.46	109.22	-8,182.61	4,422.42	9,677.32	9,579.38	97.94	98.805		
4,600.00	4,317.17	4,284.17	4,284.17	27.37	73.86	109.45	-8,182.61	4,422.42	9,694.39	9,594.25	100.14	96.806		
4,700.00	4,405.78	4,372.78	4,372.78	28.25	75.40	109.68	-8,182.61	4,422.42	9,711.64	9,609.15	102.50	94.752		
4,800.00	4,494.39	4,461.39	4,461.39	29.13	76.95	109.92	-8,182.61	4,422.42	9,729.09	9,624.24	104.85	92.793		
4,900.00	4,583.00	4,550.00	4,550.00	30.02	78.50	110.15	-8,182.61	4,422.42	9,746.73	9,639.53	107.20	90.923		
5,000.00	4,671.61	4,638.61	4,638.61	30.90	80.04	110.38	-8,182.61	4,422.42	9,764.55	9,655.00	109.55	89.135		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,727.22	4,727.22	31.79	81.59	110.61	-8,182.61	4,422.42	9,782.56	9,670.67	111.90	87.426		
5,200.00	4,848.83	4,815.83	4,815.83	32.67	83.14	110.83	-8,182.61	4,422.42	9,800.76	9,686.52	114.24	85.789		
5,300.00	4,937.44	4,904.44	4,904.44	33.56	84.68	111.06	-8,182.61	4,422.42	9,819.14	9,702.55	116.59	84.221		
5,400.00	5,026.05	4,993.05	4,993.05	34.45	86.23	111.29	-8,182.61	4,422.42	9,837.71	9,718.78	118.93	82.718		
5,500.00	5,114.66	5,048.00	5,048.00	35.34	87.19	111.43	-8,182.61	4,422.42	9,856.52	9,735.84	120.68	81.676		
5,600.00	5,203.27	5,048.00	5,048.00	36.23	87.19	111.43	-8,182.61	4,422.42	9,876.15	9,754.70	121.45	81.321		
5,700.00	5,291.88	5,048.00	5,048.00	37.12	87.19	111.43	-8,182.61	4,422.42	9,896.75	9,774.55	122.20	80.986		
5,800.00	5,380.50	5,048.00	5,048.00	38.01	87.19	111.43	-8,182.61	4,422.42	9,918.32	9,795.37	122.95	80.672		
5,900.00	5,469.11	5,048.00	5,048.00	38.90	87.19	111.43	-8,182.61	4,422.42	9,940.84	9,817.17	123.68	80.377		
6,000.00	5,557.72	5,048.00	5,048.00	39.79	87.19	111.43	-8,182.61	4,422.42	9,964.32	9,839.93	124.40	80.101		
6,100.00	5,646.33	5,048.00	5,048.00	40.68	87.19	111.43	-8,182.61	4,422.42	9,988.75	9,863.65	125.10	79.845		
8,900.00	7,730.00	5,048.00	5,048.00	53.82	87.19	-40.02	-8,182.61	4,422.42	9,917.10	9,783.18	133.92	74.055		
9,000.00	7,730.00	5,048.00	5,048.00	53.33	87.19	-40.02	-8,182.61	4,422.42	9,823.44	9,689.85	133.59	73.537		
9,100.00	7,730.00	5,048.00	5,048.00	52.87	87.19	-40.02	-8,182.61	4,422.42	9,729.91	9,596.65	133.25	73.018		
9,200.00	7,730.00	5,048.00	5,048.00	52.44	87.19	-40.02	-8,182.61	4,422.42	9,636.51	9,503.59	132.92	72.499		
9,300.00	7,730.00	5,048.00	5,048.00	52.03	87.19	-40.02	-8,182.61	4,422.42	9,543.24	9,410.66	132.58	71.981		
9,400.00	7,730.00	5,048.00	5,048.00	51.65	87.19	-40.02	-8,182.61	4,422.42	9,450.11	9,317.87	132.24	71.462		
9,500.00	7,730.00	5,048.00	5,048.00	51.29	87.19	-40.02	-8,182.61	4,422.42	9,357.12	9,225.22	131.90	70.942		
9,600.00	7,730.00	5,048.00	5,048.00	50.95	87.19	-40.02	-8,182.61	4,422.42	9,264.27	9,132.72	131.55	70.422		
9,700.00	7,730.00	5,048.00	5,048.00	50.64	87.19	-40.02	-8,182.61	4,422.42	9,171.58	9,040.38	131.21	69.902		
9,800.00	7,730.00	5,048.00	5,048.00	50.35	87.19	-40.02	-8,182.61	4,422.42	9,079.05	8,948.19	130.86	69.382		
9,900.00	7,730.00	5,048.00	5,048.00	50.09	87.19	-40.02	-8,182.61	4,422.42	8,986.67	8,856.16	130.51	68.860		
10,000.00	7,730.00	5,048.00	5,048.00	49.86	87.19	-40.02	-8,182.61	4,422.42	8,894.46	8,764.30	130.15	68.338		
10,100.00	7,730.00	5,048.00	5,048.00	49.65	87.19	-40.02	-8,182.61	4,422.42	8,802.41	8,672.61	129.80	67.815		
10,200.00	7,730.00	5,048.00	5,048.00	49.48	87.19	-40.02	-8,182.61	4,422.42	8,710.55	8,581.10	129.45	67.291		
10,300.00	7,730.00	5,048.00	5,048.00	49.35	87.19	-40.02	-8,182.61	4,422.42	8,618.86	8,489.77	129.09	66.766		
10,400.00	7,730.00	5,048.00	5,048.00	49.27	87.19	-40.02	-8,182.61	4,422.42	8,527.36	8,398.63	128.73	66.240		
10,500.00	7,730.00	5,048.00	5,048.00	49.26	87.19	-40.02	-8,182.61	4,422.42	8,436.06	8,307.68	128.38	65.712		
10,600.00	7,730.00	5,048.00	5,048.00	49.32	87.19	-40.02	-8,182.61	4,422.42	8,344.95	8,216.92	128.02	65.183		
10,700.00	7,730.00	5,048.00	5,048.00	49.51	87.19	-40.02	-8,182.61	4,422.42	8,254.05	8,126.38	127.67	64.651		
10,800.00	7,730.00	5,048.00	5,048.00	49.83	87.19	-40.02	-8,182.61	4,422.42	8,163.36	8,036.04	127.32	64.118		
10,900.00	7,730.00	5,048.00	5,048.00	50.31	87.19	-40.02	-8,182.61	4,422.42	8,072.89	7,945.92	126.97	63.583		
11,000.00	7,730.00	5,048.00	5,048.00	50.96	87.19	-40.02	-8,182.61	4,422.42	7,982.65	7,856.03	126.62	63.045		
11,100.00	7,730.00	5,048.00	5,048.00	51.75	87.19	-40.02	-8,182.61	4,422.42	7,892.65	7,766.37	126.27	62.504		
11,200.00	7,730.00	5,048.00	5,048.00	52.66	87.19	-40.02	-8,182.61	4,422.42	7,802.88	7,676.95	125.93	61.960		
11,300.00	7,730.00	5,048.00	5,048.00	53.67	87.19	-40.02	-8,182.61	4,422.42	7,713.37	7,587.77	125.60	61.412		
11,400.00	7,730.00	5,048.00	5,048.00	54.75	87.19	-40.02	-8,182.61	4,422.42	7,624.12	7,498.85	125.27	60.862		
11,500.00	7,730.00	5,048.00	5,048.00	55.89	87.19	-40.02	-8,182.61	4,422.42	7,535.14	7,410.20	124.95	60.307		
11,600.00	7,730.00	5,048.00	5,048.00	57.07	87.19	-40.02	-8,182.61	4,422.42	7,446.45	7,321.81	124.63	59.747		
11,700.00	7,730.00	5,048.00	5,048.00	58.30	87.19	-40.02	-8,182.61	4,422.42	7,358.04	7,233.71	124.33	59.183		
11,800.00	7,730.00	5,048.00	5,048.00	59.55	87.19	-40.02	-8,182.61	4,422.42	7,269.93	7,145.90	124.03	58.614		
11,900.00	7,730.00	5,048.00	5,048.00	60.84	87.19	-40.02	-8,182.61	4,422.42	7,182.13	7,058.38	123.75	58.039		
12,000.00	7,730.00	5,048.00	5,048.00	62.15	87.19	-40.02	-8,182.61	4,422.42	7,094.65	6,971.18	123.47	57.459		
12,100.00	7,730.00	5,048.00	5,048.00	63.49	87.19	-40.02	-8,182.61	4,422.42	7,007.51	6,884.30	123.22	56.872		
12,200.00	7,730.00	5,048.00	5,048.00	64.85	87.19	-40.02	-8,182.61	4,422.42	6,920.72	6,797.75	122.97	56.278		
12,300.00	7,730.00	5,048.00	5,048.00	66.22	87.19	-40.02	-8,182.61	4,422.42	6,834.29	6,711.54	122.75	55.677		
12,400.00	7,730.00	5,048.00	5,048.00	67.62	87.19	-40.02	-8,182.61	4,422.42	6,748.23	6,625.69	122.54	55.068		
12,500.00	7,730.00	5,048.00	5,048.00	69.03	87.19	-40.02	-8,182.61	4,422.42	6,662.57	6,540.21	122.36	54.451		
12,600.00	7,730.00	5,048.00	5,048.00	70.45	87.19	-40.02	-8,182.61	4,422.42	6,577.30	6,455.11	122.20	53.825		
12,700.00	7,730.00	5,048.00	5,048.00	71.90	87.19	-40.02	-8,182.61	4,422.42	6,492.46	6,370.40	122.06	53.191		
12,800.00	7,730.00	5,048.00	5,048.00	73.35	87.19	-40.02	-8,182.61	4,422.42	6,408.06	6,286.11	121.95	52.547		
12,900.00	7,730.00	5,048.00	5,048.00	74.81	87.19	-40.02	-8,182.61	4,422.42	6,324.11	6,202.24	121.87	51.894		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,000.00	7,730.00	5,048.00	5,048.00	76.29	87.19	-40.02	-8,182.61	4,422.42	6,240.63	6,118.81	121.82	51.230		
13,100.00	7,730.00	5,048.00	5,048.00	77.78	87.19	-40.02	-8,182.61	4,422.42	6,157.65	6,035.85	121.80	50.556		
13,200.00	7,730.00	5,048.00	5,048.00	79.28	87.19	-40.02	-8,182.61	4,422.42	6,075.17	5,953.36	121.82	49.872		
13,300.00	7,730.00	5,048.00	5,048.00	80.79	87.19	-40.02	-8,182.61	4,422.42	5,993.24	5,871.37	121.87	49.177		
13,400.00	7,730.00	5,048.00	5,048.00	82.31	87.19	-40.02	-8,182.61	4,422.42	5,911.85	5,789.89	121.96	48.472		
13,500.00	7,730.00	5,048.00	5,048.00	83.84	87.19	-40.02	-8,182.61	4,422.42	5,831.05	5,708.95	122.10	47.756		
13,600.00	7,730.00	5,048.00	5,048.00	85.37	87.19	-40.02	-8,182.61	4,422.42	5,750.85	5,628.57	122.28	47.030		
13,700.00	7,730.00	5,048.00	5,048.00	86.92	87.19	-40.02	-8,182.61	4,422.42	5,671.28	5,548.78	122.51	46.294		
13,800.00	7,730.00	5,048.00	5,048.00	88.47	87.19	-40.02	-8,182.61	4,422.42	5,592.37	5,469.59	122.78	45.548		
13,900.00	7,730.00	5,048.00	5,048.00	90.03	87.19	-40.02	-8,182.61	4,422.42	5,514.14	5,391.03	123.10	44.793		
14,000.00	7,730.00	5,048.00	5,048.00	91.59	87.19	-40.02	-8,182.61	4,422.42	5,436.62	5,313.14	123.48	44.029		
14,100.00	7,730.00	5,048.00	5,048.00	93.16	87.19	-40.02	-8,182.61	4,422.42	5,359.85	5,235.94	123.91	43.257		
14,200.00	7,730.00	5,048.00	5,048.00	94.74	87.19	-40.02	-8,182.61	4,422.42	5,283.86	5,159.46	124.39	42.477		
14,300.00	7,730.00	5,048.00	5,048.00	96.33	87.19	-40.02	-8,182.61	4,422.42	5,208.67	5,083.74	124.93	41.692		
14,400.00	7,730.00	5,048.00	5,048.00	97.92	87.19	-40.02	-8,182.61	4,422.42	5,134.34	5,008.81	125.53	40.901		
14,500.00	7,730.00	5,048.00	5,048.00	99.51	87.19	-40.02	-8,182.61	4,422.42	5,060.88	4,934.70	126.19	40.107		
14,600.00	7,730.00	5,048.00	5,048.00	101.11	87.19	-40.02	-8,182.61	4,422.42	4,988.35	4,861.45	126.90	39.309		
14,700.00	7,730.00	5,048.00	5,048.00	102.72	87.19	-40.02	-8,182.61	4,422.42	4,916.79	4,789.11	127.68	38.510		
14,800.00	7,730.00	5,048.00	5,048.00	104.33	87.19	-40.02	-8,182.61	4,422.42	4,846.23	4,717.72	128.51	37.710		
14,900.00	7,730.00	5,048.00	5,048.00	105.94	87.19	-40.02	-8,182.61	4,422.42	4,776.72	4,647.31	129.41	36.911		
15,000.00	7,730.00	5,048.00	5,048.00	107.56	87.19	-40.02	-8,182.61	4,422.42	4,708.31	4,577.94	130.37	36.114		
15,100.00	7,730.00	5,048.00	5,048.00	109.18	87.19	-40.02	-8,182.61	4,422.42	4,641.05	4,509.66	131.39	35.322		
15,200.00	7,730.00	5,048.00	5,048.00	110.81	87.19	-40.02	-8,182.61	4,422.42	4,574.99	4,442.51	132.48	34.534		
15,300.00	7,730.00	5,048.00	5,048.00	112.44	87.19	-40.02	-8,182.61	4,422.42	4,510.17	4,376.55	133.62	33.753		
15,400.00	7,730.00	5,048.00	5,048.00	114.08	87.19	-40.02	-8,182.61	4,422.42	4,446.66	4,311.83	134.83	32.980		
15,500.00	7,730.00	5,048.00	5,048.00	115.72	87.19	-40.02	-8,182.61	4,422.42	4,384.51	4,248.42	136.09	32.217		
15,600.00	7,730.00	5,048.00	5,048.00	117.36	87.19	-40.02	-8,182.61	4,422.42	4,323.78	4,186.36	137.42	31.464		
15,700.00	7,730.00	5,048.00	5,048.00	119.00	87.19	-40.02	-8,182.61	4,422.42	4,264.53	4,125.72	138.80	30.724		
15,800.00	7,730.00	5,048.00	5,048.00	120.65	87.19	-40.02	-8,182.61	4,422.42	4,206.82	4,066.57	140.24	29.996		
15,900.00	7,730.00	5,048.00	5,048.00	122.30	87.19	-40.02	-8,182.61	4,422.42	4,150.72	4,008.98	141.74	29.283		
16,000.00	7,730.00	5,048.00	5,048.00	123.96	87.19	-40.02	-8,182.61	4,422.42	4,096.29	3,953.00	143.30	28.586		
16,100.00	7,730.00	5,048.00	5,048.00	125.61	87.19	-40.02	-8,182.61	4,422.42	4,043.61	3,898.70	144.90	27.906		
16,200.00	7,730.00	5,048.00	5,048.00	127.27	87.19	-40.02	-8,182.61	4,422.42	3,992.73	3,846.17	146.56	27.243		
16,300.00	7,730.00	5,048.00	5,048.00	128.94	87.19	-40.02	-8,182.61	4,422.42	3,943.73	3,795.47	148.27	26.599		
16,400.00	7,730.00	5,048.00	5,048.00	130.60	87.19	-40.02	-8,182.61	4,422.42	3,896.69	3,746.67	150.02	25.975		
16,500.00	7,730.00	5,048.00	5,048.00	132.27	87.19	-40.02	-8,182.61	4,422.42	3,851.66	3,699.84	151.82	25.370		
16,600.00	7,730.00	5,048.00	5,048.00	133.94	87.19	-40.02	-8,182.61	4,422.42	3,808.73	3,655.07	153.66	24.787		
16,700.00	7,730.00	5,048.00	5,048.00	135.61	87.19	-40.02	-8,182.61	4,422.42	3,767.97	3,612.43	155.54	24.225		
16,800.00	7,730.00	5,048.00	5,048.00	137.28	87.19	-40.02	-8,182.61	4,422.42	3,729.44	3,571.98	157.45	23.686		
16,900.00	7,730.00	5,048.00	5,048.00	138.96	87.19	-40.02	-8,182.61	4,422.42	3,693.22	3,533.81	159.40	23.169		
17,000.00	7,730.00	5,048.00	5,048.00	140.64	87.19	-40.02	-8,182.61	4,422.42	3,659.37	3,497.98	161.39	22.675		
17,100.00	7,730.00	5,048.00	5,048.00	142.32	87.19	-40.02	-8,182.61	4,422.42	3,627.96	3,464.57	163.39	22.204		
17,200.00	7,730.00	5,048.00	5,048.00	144.00	87.19	-40.02	-8,182.61	4,422.42	3,599.06	3,433.64	165.42	21.757		
17,300.00	7,730.00	5,048.00	5,048.00	145.69	87.19	-40.02	-8,182.61	4,422.42	3,572.73	3,405.26	167.47	21.333		
17,400.00	7,730.00	5,048.00	5,048.00	147.37	87.19	-40.02	-8,182.61	4,422.42	3,549.02	3,379.48	169.54	20.933		
17,500.00	7,730.00	5,048.00	5,048.00	149.06	87.19	-40.02	-8,182.61	4,422.42	3,527.98	3,356.36	171.62	20.557		
17,600.00	7,730.00	5,048.00	5,048.00	150.75	87.19	-40.02	-8,182.61	4,422.42	3,509.67	3,335.97	173.71	20.205		
17,700.00	7,730.00	5,048.00	5,048.00	152.44	87.19	-40.02	-8,182.61	4,422.42	3,494.13	3,318.34	175.80	19.876		
17,800.00	7,730.00	5,048.00	5,048.00	154.13	87.19	-40.02	-8,182.61	4,422.42	3,481.39	3,303.51	177.88	19.571		
17,900.00	7,730.00	5,048.00	5,048.00	155.83	87.19	-40.02	-8,182.61	4,422.42	3,471.49	3,291.53	179.96	19.290		
18,000.00	7,730.00	5,048.00	5,048.00	157.52	87.19	-40.02	-8,182.61	4,422.42	3,464.44	3,282.41	182.03	19.032		
18,100.00	7,730.00	5,048.00	5,048.00	159.22	87.19	-40.02	-8,182.61	4,422.42	3,460.27	3,276.19	184.08	18.797		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
18,194.31	7,730.00	5,048.00	5,048.00	160.82	87.19	-40.02	-8,182.61	4,422.42	3,458.99	3,272.99	185.99	18.597 CC	
18,200.00	7,730.00	5,048.00	5,048.00	160.92	87.19	-40.02	-8,182.61	4,422.42	3,458.99	3,272.88	186.11	18.586	
18,300.00	7,730.00	5,048.00	5,048.00	162.62	87.19	-40.02	-8,182.61	4,422.42	3,460.60	3,272.49	188.11	18.397 ES	
18,400.00	7,730.00	5,048.00	5,048.00	164.32	87.19	-40.02	-8,182.61	4,422.42	3,465.10	3,275.03	190.07	18.230	
18,426.22	7,730.00	5,048.00	5,048.00	164.76	87.19	-40.02	-8,182.61	4,422.42	3,466.75	3,276.17	190.58	18.190 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
0.00	0.00	0.00	0.00	0.00	0.00	141.87	-4,069.26	3,193.67	5,172.87					
100.00	100.00	109.50	109.50	0.13	0.19	141.88	-4,069.22	3,193.35	5,172.67	5,172.34	0.33	N/A		
200.00	200.00	233.93	233.92	0.49	0.41	141.89	-4,069.10	3,192.20	5,172.02	5,171.12	0.90	5,717.595		
300.00	300.00	358.33	358.31	0.85	0.63	141.90	-4,068.87	3,190.22	5,170.90	5,169.41	1.48	3,489.781		
400.00	400.00	482.70	482.65	1.21	0.85	141.92	-4,068.56	3,187.41	5,169.30	5,167.24	2.06	2,510.880		
500.00	500.00	607.03	606.92	1.57	1.07	141.95	-4,068.15	3,183.76	5,167.23	5,164.60	2.64	1,960.468		
600.00	600.00	661.43	661.31	1.93	1.37	141.96	-4,067.90	3,182.81	5,165.60	5,162.30	3.30	1,567.272		
700.00	700.00	732.00	731.88	2.29	1.62	141.96	-4,067.32	3,182.47	5,164.61	5,160.71	3.90	1,324.792		
800.00	800.00	791.02	790.89	2.64	1.82	141.95	-4,066.53	3,183.23	5,164.27	5,159.81	4.46	1,159.127		
811.24	811.24	799.37	799.24	2.68	1.84	141.94	-4,066.40	3,183.40	5,164.27	5,159.74	4.52	1,141.612		
900.00	900.00	868.54	868.36	3.00	2.08	141.92	-4,065.00	3,185.41	5,164.45	5,159.37	5.08	1,017.490		
1,000.00	1,000.00	1,059.28	1,058.71	3.36	2.74	141.78	-4,056.97	3,194.46	5,164.16	5,158.06	6.10	846.635		
1,100.00	1,100.00	1,131.38	1,130.56	3.72	3.00	141.72	-4,052.66	3,198.51	5,162.97	5,156.25	6.72	768.593		
1,200.00	1,200.00	1,191.53	1,190.47	4.08	3.22	141.66	-4,049.09	3,202.59	5,162.53	5,155.23	7.29	707.704		
1,300.00	1,299.98	1,349.57	1,347.47	4.43	3.81	94.38	-4,037.36	3,216.23	5,162.30	5,154.06	8.24	626.235		
1,400.00	1,399.84	1,472.17	1,468.69	4.79	4.29	94.27	-4,024.67	3,229.39	5,161.27	5,152.19	9.08	568.460		
1,500.00	1,499.45	1,546.65	1,542.02	5.15	4.60	94.21	-4,015.83	3,238.94	5,160.63	5,150.88	9.75	529.558		
1,517.17	1,516.52	1,551.00	1,546.30	5.21	4.62	94.20	-4,015.30	3,239.53	5,160.60	5,150.77	9.83	525.220		
1,600.00	1,598.70	1,590.28	1,584.89	5.51	4.79	94.17	-4,010.58	3,245.11	5,160.99	5,150.70	10.30	501.288		
1,700.00	1,697.47	1,639.00	1,632.67	5.89	4.99	94.11	-4,004.89	3,252.76	5,162.75	5,151.87	10.88	474.547		
1,800.00	1,795.62	1,750.63	1,741.76	6.28	5.49	94.04	-3,991.19	3,272.10	5,165.44	5,153.67	11.77	438.817		
1,900.00	1,893.06	1,900.00	2,054.51	6.69	6.19	94.08	-3,945.47	3,321.46	5,165.16	5,152.28	12.88	401.165		
2,000.00	1,989.64	2,130.93	2,113.74	7.13	7.25	94.16	-3,936.74	3,329.04	5,163.76	5,149.38	14.38	359.158		
2,058.47	2,045.68	2,163.00	2,145.27	7.41	7.39	94.20	-3,932.53	3,333.14	5,163.62	5,148.82	14.80	348.902		
2,100.00	2,085.27	2,163.00	2,145.27	7.61	7.39	94.19	-3,932.53	3,333.14	5,163.81	5,148.81	15.00	344.295		
2,200.00	2,179.82	2,232.65	2,213.79	8.12	7.71	94.28	-3,924.01	3,342.31	5,164.99	5,149.17	15.82	326.420		
2,300.00	2,273.17	2,305.11	2,285.05	8.67	8.04	94.39	-3,915.54	3,352.30	5,167.22	5,150.51	16.70	309.323		
2,400.00	2,365.21	2,384.38	2,362.93	9.27	8.40	94.51	-3,906.21	3,363.77	5,170.16	5,152.49	17.67	292.650		
2,500.00	2,455.84	2,467.86	2,444.96	9.92	8.78	94.67	-3,896.67	3,375.96	5,173.80	5,155.10	18.70	276.687		
2,580.62	2,527.80	2,569.33	2,544.68	10.49	9.25	94.92	-3,885.07	3,390.78	5,177.08	5,157.35	19.73	262.384		
2,600.00	2,544.97	2,606.09	2,580.72	10.63	9.42	95.03	-3,880.49	3,396.32	5,177.80	5,157.75	20.04	258.350		
2,700.00	2,633.58	2,663.09	2,636.58	11.37	9.69	95.20	-3,873.39	3,405.16	5,181.82	5,160.77	21.05	246.182		
2,800.00	2,722.19	2,772.70	2,743.89	12.13	10.22	95.53	-3,859.70	3,422.79	5,186.34	5,164.01	22.33	232.232		
2,900.00	2,810.80	2,847.21	2,816.93	12.91	10.57	95.76	-3,850.59	3,434.40	5,190.91	5,167.45	23.46	221.264		
3,000.00	2,899.41	2,933.00	2,901.26	13.71	10.97	96.04	-3,841.07	3,446.95	5,195.95	5,171.31	24.65	210.807		
3,100.00	2,988.02	3,043.69	3,009.99	14.52	11.48	96.39	-3,828.55	3,463.44	5,201.16	5,175.19	25.97	200.296		
3,200.00	3,076.63	3,167.34	3,131.26	15.34	12.07	96.77	-3,813.20	3,482.09	5,205.67	5,178.30	27.37	190.222		
3,300.00	3,165.24	3,210.00	3,173.13	16.16	12.27	96.90	-3,808.09	3,488.45	5,210.81	5,182.43	28.38	183.589		
3,400.00	3,253.85	3,270.66	3,232.67	17.00	12.56	97.09	-3,801.23	3,497.81	5,216.87	5,187.37	29.49	176.897		
3,500.00	3,342.46	3,297.00	3,258.51	17.84	12.68	97.17	-3,798.40	3,502.09	5,224.11	5,193.68	30.43	171.659		
3,600.00	3,431.07	3,360.01	3,320.31	18.69	12.98	97.36	-3,792.13	3,512.66	5,232.30	5,200.74	31.56	165.796		
3,700.00	3,519.68	3,412.14	3,371.45	19.55	13.23	97.52	-3,787.53	3,521.67	5,241.62	5,208.99	32.63	160.639		
3,800.00	3,608.29	3,476.02	3,434.14	20.40	13.53	97.72	-3,782.35	3,532.77	5,251.74	5,217.98	33.76	155.562		
3,900.00	3,696.90	3,860.20	3,812.34	21.26	15.28	98.97	-3,744.95	3,588.16	5,257.67	5,221.26	36.42	144.378		
4,000.00	3,785.51	3,924.19	3,875.52	22.13	15.57	99.18	-3,738.32	3,595.82	5,263.49	5,225.95	37.54	140.199		
4,100.00	3,874.12	4,022.13	3,972.20	23.00	16.00	99.52	-3,728.22	3,607.83	5,269.70	5,230.88	38.83	135.729		
4,200.00	3,962.73	4,083.00	4,032.23	23.87	16.27	99.72	-3,721.76	3,615.52	5,276.16	5,236.22	39.94	132.105		
4,300.00	4,051.34	4,139.72	4,088.12	24.74	16.53	99.90	-3,715.90	3,623.16	5,283.46	5,242.43	41.04	128.743		
4,400.00	4,139.95	4,227.93	4,174.87	25.62	16.94	100.18	-3,707.07	3,636.49	5,291.85	5,249.55	42.30	125.113		
4,500.00	4,228.56	4,320.24	4,265.51	26.49	17.38	100.46	-3,697.08	3,650.89	5,300.00	5,256.42	43.58	121.625		
4,600.00	4,317.17	4,390.61	4,334.93	27.37	17.69	100.69	-3,690.70	3,660.43	5,308.72	5,263.99	44.73	118.675		
4,700.00	4,405.78	4,475.17	4,418.63	28.25	18.05	100.99	-3,684.24	3,670.56	5,318.01	5,272.08	45.93	115.774		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
4,800.00	4,494.39	4,622.82	4,565.55	29.13	18.62	101.57	-3,675.81	3,682.24	5,327.21	5,279.85	47.36	112.487		
4,900.00	4,583.00	4,729.69	4,672.22	30.02	18.99	102.03	-3,671.06	3,686.87	5,335.97	5,287.41	48.56	109.873		
5,000.00	4,671.61	4,825.58	4,768.03	30.90	19.31	102.47	-3,667.65	3,688.90	5,344.74	5,295.03	49.71	107.518		
5,100.00	4,760.22	4,928.63	4,871.04	31.79	19.61	102.96	-3,665.48	3,688.43	5,353.87	5,303.02	50.85	105.294		
5,200.00	4,848.83	5,063.24	5,005.57	32.67	19.99	103.64	-3,663.44	3,684.44	5,362.74	5,310.69	52.04	103.044		
5,300.00	4,937.44	5,164.25	5,106.50	33.56	20.27	104.15	-3,661.87	3,680.45	5,371.59	5,318.46	53.14	101.090		
5,400.00	5,026.05	5,273.85	5,215.98	34.45	20.57	104.71	-3,659.99	3,675.64	5,380.55	5,326.31	54.25	99.181		
5,500.00	5,114.66	5,338.08	5,280.13	35.34	20.75	105.04	-3,658.81	3,672.76	5,389.84	5,334.60	55.24	97.572		
5,600.00	5,203.27	5,384.53	5,326.55	36.23	20.88	105.27	-3,658.13	3,671.12	5,400.17	5,343.99	56.18	96.128		
5,700.00	5,291.88	5,431.22	5,373.22	37.12	21.02	105.50	-3,657.63	3,669.91	5,411.57	5,354.47	57.11	94.763		
5,800.00	5,380.50	5,480.00	5,421.99	38.01	21.16	105.74	-3,657.29	3,669.12	5,424.03	5,366.00	58.04	93.461		
5,900.00	5,469.11	5,556.49	5,498.47	38.90	21.38	106.11	-3,656.96	3,668.31	5,437.29	5,378.24	59.05	92.077		
6,000.00	5,557.72	5,636.11	5,578.09	39.79	21.62	106.49	-3,656.71	3,667.57	5,451.07	5,391.00	60.07	90.739		
6,100.00	5,646.33	5,725.00	5,666.97	40.68	21.88	106.91	-3,656.51	3,666.76	5,465.29	5,404.17	61.12	89.415		
6,200.00	5,734.94	5,816.63	5,758.60	41.58	22.15	107.35	-3,656.33	3,665.77	5,479.83	5,417.66	62.18	88.133		
6,300.00	5,823.55	5,916.26	5,858.22	42.47	22.45	107.83	-3,656.09	3,664.46	5,494.63	5,431.37	63.25	86.866		
6,400.00	5,912.16	6,017.03	5,958.98	43.36	22.75	108.31	-3,655.72	3,662.86	5,509.58	5,445.25	64.33	85.646		
6,500.00	6,000.77	6,117.12	6,059.05	44.26	23.05	108.78	-3,655.23	3,660.99	5,524.71	5,459.31	65.40	84.475		
6,600.00	6,089.38	6,210.82	6,152.72	45.15	23.33	109.23	-3,654.67	3,658.99	5,540.02	5,473.58	66.45	83.377		
6,700.00	6,177.99	6,294.56	6,236.44	46.05	23.59	109.63	-3,654.24	3,657.08	5,555.72	5,488.27	67.45	82.366		
6,800.00	6,266.60	6,382.57	6,324.43	46.94	23.85	110.04	-3,653.88	3,654.99	5,571.84	5,503.37	68.47	81.377		
6,900.00	6,355.21	6,481.08	6,422.91	47.84	24.15	110.51	-3,653.28	3,652.84	5,588.21	5,518.69	69.52	80.382		
7,000.00	6,443.82	6,572.31	6,514.12	48.74	24.44	110.93	-3,652.47	3,651.13	5,604.80	5,534.25	70.55	79.448		
7,100.00	6,532.43	6,656.87	6,598.66	49.63	24.70	111.32	-3,651.66	3,649.83	5,621.76	5,550.21	71.55	78.573		
7,200.00	6,621.04	6,739.54	6,681.33	50.53	24.97	111.69	-3,650.82	3,648.86	5,639.12	5,566.58	72.54	77.735		
7,300.00	6,709.65	6,820.21	6,761.99	51.42	25.23	112.05	-3,649.94	3,648.42	5,656.93	5,583.40	73.53	76.932		
7,400.00	6,798.26	6,900.09	6,841.87	52.32	25.49	112.40	-3,649.01	3,648.51	5,675.19	5,600.67	74.51	76.163		
7,500.00	6,886.87	6,977.18	6,918.95	53.22	25.74	112.73	-3,648.21	3,648.77	5,693.91	5,618.43	75.48	75.432		
7,600.00	6,975.48	7,054.30	6,996.07	54.12	25.99	113.07	-3,647.57	3,649.09	5,713.13	5,636.68	76.45	74.730		
7,656.30	7,025.36	7,098.88	7,040.65	54.62	26.14	113.26	-3,647.26	3,649.29	5,724.15	5,647.16	76.99	74.345		
7,700.00	7,064.54	7,133.87	7,075.63	55.00	26.25	106.45	-3,647.06	3,649.44	5,731.24	5,653.82	77.41	74.034		
7,750.00	7,110.29	7,174.66	7,116.43	55.40	26.39	96.69	-3,646.85	3,649.61	5,735.54	5,657.66	77.88	73.644		
7,800.00	7,156.67	7,216.00	7,157.76	55.75	26.52	84.96	-3,646.68	3,649.78	5,735.76	5,657.42	78.33	73.222		
7,850.00	7,203.34	7,278.56	7,220.32	56.05	26.72	72.11	-3,646.41	3,649.96	5,731.81	5,652.96	78.85	72.697		
7,900.00	7,249.95	7,347.45	7,289.21	56.30	26.95	59.42	-3,645.92	3,649.90	5,723.56	5,644.21	79.35	72.128		
7,950.00	7,296.14	7,416.76	7,358.52	56.50	27.18	48.03	-3,645.23	3,649.58	5,711.07	5,631.24	79.83	71.539		
8,000.00	7,341.56	7,489.37	7,431.12	56.64	27.41	38.47	-3,644.25	3,648.92	5,694.38	5,614.09	80.29	70.924		
8,050.00	7,385.86	7,559.65	7,501.38	56.74	27.64	30.66	-3,643.06	3,647.93	5,673.63	5,592.92	80.71	70.300		
8,100.00	7,428.71	7,610.00	7,516.79	56.79	29.41	24.11	-3,642.77	3,647.67	5,649.13	5,566.51	82.62	68.378		
8,150.00	7,469.77	7,617.11	7,558.83	56.80	27.83	18.69	-3,642.03	3,647.08	5,621.11	5,539.96	81.15	69.268		
8,200.00	7,508.75	7,639.35	7,581.06	56.77	27.90	13.91	-3,641.70	3,646.88	5,589.93	5,508.62	81.31	68.750		
8,250.00	7,545.33	7,660.30	7,602.01	56.70	27.97	9.53	-3,641.43	3,646.78	5,555.74	5,474.31	81.44	68.223		
8,300.00	7,579.25	7,679.81	7,621.51	56.59	28.04	5.28	-3,641.22	3,646.74	5,518.79	5,437.26	81.53	67.688		
8,350.00	7,610.24	7,697.70	7,639.41	56.45	28.09	0.87	-3,641.05	3,646.77	5,479.33	5,397.72	81.60	67.147		
8,400.00	7,638.06	7,713.84	7,655.54	56.28	28.15	-4.02	-3,640.92	3,646.84	5,437.63	5,355.99	81.64	66.602		
8,450.00	7,662.52	7,750.00	7,691.71	56.09	28.27	-9.91	-3,640.72	3,647.14	5,394.07	5,312.33	81.74	65.987		
8,500.00	7,683.41	7,750.00	7,691.71	55.88	28.27	-17.23	-3,640.72	3,647.14	5,348.77	5,267.08	81.69	65.479		
8,550.00	7,700.59	7,750.00	7,691.71	55.64	28.27	-26.85	-3,640.72	3,647.14	5,302.21	5,220.60	81.61	64.969		
8,600.00	7,713.91	7,761.02	7,702.72	55.39	28.30	-39.99	-3,640.68	3,647.28	5,254.74	5,173.17	81.57	64.421		
8,650.00	7,723.29	7,768.39	7,710.10	55.14	28.33	-56.86	-3,640.65	3,647.39	5,206.67	5,125.17	81.50	63.885		
8,700.00	7,728.64	7,772.54	7,714.24	54.87	28.34	-75.66	-3,640.63	3,647.45	5,158.40	5,076.99	81.41	63.363		
8,740.83	7,730.00	7,773.50	7,715.20	54.65	28.34	-89.89	-3,640.63	3,647.47	5,119.08	5,037.76	81.32	62.950		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output 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		
8,800.00	7,730.00	7,773.31	7,715.01	54.33	28.34	-89.88	-3,640.63	3,647.46	5,062.30	4,981.12	81.18	62.359		
8,900.00	7,730.00	7,772.98	7,714.68	53.82	28.34	-89.87	-3,640.63	3,647.46	4,966.48	4,885.54	80.94	61.360		
9,000.00	7,730.00	7,772.66	7,714.36	53.33	28.34	-89.85	-3,640.63	3,647.45	4,870.82	4,790.13	80.69	60.363		
9,100.00	7,730.00	7,772.33	7,714.04	52.87	28.34	-89.84	-3,640.63	3,647.45	4,775.34	4,694.90	80.44	59.366		
9,200.00	7,730.00	7,772.01	7,713.71	52.44	28.34	-89.83	-3,640.63	3,647.44	4,680.05	4,599.87	80.18	58.370		
9,300.00	7,730.00	7,771.69	7,713.39	52.03	28.34	-89.82	-3,640.64	3,647.44	4,584.96	4,505.05	79.91	57.375		
9,400.00	7,730.00	7,771.36	7,713.07	51.65	28.34	-89.80	-3,640.64	3,647.43	4,490.09	4,410.45	79.64	56.380		
9,500.00	7,730.00	7,771.04	7,712.74	51.29	28.34	-89.79	-3,640.64	3,647.43	4,395.44	4,316.08	79.36	55.386		
9,600.00	7,730.00	7,770.72	7,712.42	50.95	28.34	-89.78	-3,640.64	3,647.42	4,301.03	4,221.96	79.07	54.393		
9,700.00	7,730.00	7,770.39	7,712.10	50.64	28.33	-89.76	-3,640.64	3,647.42	4,206.89	4,128.11	78.78	53.400		
9,800.00	7,730.00	7,770.07	7,711.77	50.35	28.33	-89.75	-3,640.64	3,647.41	4,113.02	4,034.53	78.48	52.408		
9,900.00	7,730.00	7,769.75	7,711.45	50.09	28.33	-89.74	-3,640.64	3,647.41	4,019.44	3,941.26	78.17	51.416		
10,000.00	7,730.00	7,769.43	7,711.13	49.86	28.33	-89.73	-3,640.64	3,647.40	3,926.18	3,848.32	77.86	50.424		
10,100.00	7,730.00	7,769.10	7,710.81	49.65	28.33	-89.71	-3,640.65	3,647.40	3,833.26	3,755.72	77.55	49.432		
10,200.00	7,730.00	7,768.78	7,710.48	49.48	28.33	-89.70	-3,640.65	3,647.39	3,740.71	3,663.48	77.22	48.440		
10,300.00	7,730.00	7,768.46	7,710.16	49.35	28.33	-89.69	-3,640.65	3,647.39	3,648.55	3,571.65	76.90	47.447		
10,400.00	7,730.00	7,768.14	7,709.84	49.27	28.33	-89.67	-3,640.65	3,647.38	3,556.81	3,480.24	76.57	46.452		
10,500.00	7,730.00	7,767.81	7,709.52	49.26	28.33	-89.66	-3,640.65	3,647.38	3,465.53	3,389.29	76.24	45.456		
10,600.00	7,730.00	7,767.49	7,709.20	49.32	28.32	-89.65	-3,640.65	3,647.38	3,374.74	3,298.83	75.91	44.458		
10,700.00	7,730.00	7,767.17	7,708.87	49.51	28.32	-89.64	-3,640.65	3,647.37	3,284.49	3,208.91	75.58	43.456		
10,800.00	7,730.00	7,766.85	7,708.55	49.83	28.32	-89.62	-3,640.65	3,647.37	3,194.82	3,119.56	75.26	42.450		
10,900.00	7,730.00	7,766.53	7,708.23	50.31	28.32	-89.61	-3,640.66	3,647.36	3,105.78	3,030.83	74.95	41.438		
11,000.00	7,730.00	7,766.21	7,707.91	50.96	28.32	-89.60	-3,640.66	3,647.36	3,017.43	2,942.77	74.65	40.421		
11,100.00	7,730.00	7,765.89	7,707.59	51.75	28.32	-89.58	-3,640.66	3,647.35	2,929.82	2,855.45	74.37	39.395		
11,200.00	7,730.00	7,765.56	7,707.27	52.66	28.32	-89.57	-3,640.66	3,647.35	2,843.03	2,768.92	74.12	38.359		
11,300.00	7,730.00	7,765.24	7,706.95	53.67	28.32	-89.56	-3,640.66	3,647.34	2,757.14	2,683.25	73.89	37.312		
11,400.00	7,730.00	7,764.92	7,706.63	54.75	28.32	-89.55	-3,640.66	3,647.34	2,672.23	2,598.52	73.71	36.251		
11,500.00	7,730.00	7,764.60	7,706.31	55.89	28.31	-89.53	-3,640.66	3,647.33	2,588.40	2,514.81	73.59	35.174		
11,600.00	7,730.00	7,764.28	7,705.98	57.07	28.31	-89.52	-3,640.66	3,647.33	2,505.76	2,432.23	73.53	34.079		
11,700.00	7,730.00	7,763.96	7,705.66	58.30	28.31	-89.51	-3,640.67	3,647.32	2,424.42	2,350.87	73.55	32.963		
11,800.00	7,730.00	7,763.64	7,705.34	59.55	28.31	-89.49	-3,640.67	3,647.32	2,344.53	2,270.86	73.67	31.825		
11,900.00	7,730.00	7,763.32	7,705.02	60.84	28.31	-89.48	-3,640.67	3,647.32	2,266.23	2,192.32	73.91	30.663		
12,000.00	7,730.00	7,763.00	7,704.70	62.15	28.31	-89.47	-3,640.67	3,647.31	2,189.70	2,115.41	74.29	29.476		
12,100.00	7,730.00	7,762.68	7,704.38	63.49	28.31	-89.46	-3,640.67	3,647.31	2,115.13	2,040.30	74.83	28.265		
12,200.00	7,730.00	7,762.36	7,704.06	64.85	28.31	-89.44	-3,640.67	3,647.30	2,042.74	1,967.17	75.56	27.034		
12,300.00	7,730.00	7,762.04	7,703.74	66.22	28.31	-89.43	-3,640.67	3,647.30	1,972.76	1,896.25	76.51	25.785		
12,400.00	7,730.00	7,761.72	7,703.42	67.62	28.30	-89.42	-3,640.67	3,647.29	1,905.45	1,827.77	77.69	24.527		
12,500.00	7,730.00	7,761.40	7,703.10	69.03	28.30	-89.40	-3,640.68	3,647.29	1,841.13	1,762.00	79.12	23.269		
12,600.00	7,730.00	7,761.08	7,702.79	70.45	28.30	-89.39	-3,640.68	3,647.28	1,780.10	1,699.27	80.83	22.023		
12,700.00	7,730.00	7,760.76	7,702.47	71.90	28.30	-89.38	-3,640.68	3,647.28	1,722.71	1,639.90	82.81	20.803		
12,800.00	7,730.00	7,760.44	7,702.15	73.35	28.30	-89.37	-3,640.68	3,647.28	1,669.35	1,584.28	85.07	19.623		
12,900.00	7,730.00	7,760.12	7,701.83	74.81	28.30	-89.35	-3,640.68	3,647.27	1,620.40	1,532.81	87.59	18.500		
13,000.00	7,730.00	7,759.80	7,701.51	76.29	28.30	-89.34	-3,640.68	3,647.27	1,576.29	1,485.94	90.35	17.447		
13,100.00	7,730.00	7,759.49	7,701.19	77.78	28.30	-89.33	-3,640.68	3,647.26	1,537.43	1,444.12	93.31	16.477		
13,200.00	7,730.00	7,759.17	7,700.87	79.28	28.30	-89.32	-3,640.69	3,647.26	1,504.22	1,407.81	96.41	15.602		
13,300.00	7,730.00	7,758.85	7,700.55	80.79	28.30	-89.30	-3,640.69	3,647.25	1,477.05	1,377.44	99.60	14.829		
13,400.00	7,730.00	7,758.53	7,700.23	82.31	28.29	-89.29	-3,640.69	3,647.25	1,456.25	1,353.44	102.81	14.165		
13,500.00	7,730.00	7,758.21	7,699.92	83.84	28.29	-89.28	-3,640.69	3,647.25	1,442.10	1,336.15	105.95	13.612		
13,600.00	7,730.00	7,757.89	7,699.60	85.37	28.29	-89.26	-3,640.69	3,647.24	1,434.79	1,325.85	108.95	13.170		
13,655.06	7,730.00	7,757.72	7,699.42	86.22	28.29	-89.26	-3,640.69	3,647.24	1,433.74	1,323.22	110.52	12.973 CC		
13,700.00	7,730.00	7,757.57	7,699.28	86.92	28.29	-89.25	-3,640.69	3,647.24	1,434.44	1,322.70	111.75	12.837 ES		
13,800.00	7,730.00	7,757.26	7,698.96	88.47	28.29	-89.24	-3,640.69	3,647.23	1,441.04	1,326.76	114.28	12.610		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
13,900.00	7,730.00	7,756.94	7,698.64	90.03	28.29	-89.23	-3,640.69	3,647.23	1,454.51	1,337.99	116.52	12.483		
14,000.00	7,730.00	7,756.62	7,698.33	91.59	28.29	-89.21	-3,640.70	3,647.23	1,474.65	1,356.22	118.43	12.452 SF		
14,100.00	7,730.00	7,756.30	7,698.01	93.16	28.29	-89.20	-3,640.70	3,647.22	1,501.19	1,381.18	120.01	12.509		
14,200.00	7,730.00	7,755.99	7,697.69	94.74	28.29	-89.19	-3,640.70	3,647.22	1,533.81	1,412.54	121.26	12.648		
14,300.00	7,730.00	7,755.67	7,697.37	96.33	28.28	-89.18	-3,640.70	3,647.21	1,572.11	1,449.90	122.22	12.863		
14,400.00	7,730.00	7,755.35	7,697.06	97.92	28.28	-89.16	-3,640.70	3,647.21	1,615.71	1,492.82	122.89	13.147		
14,500.00	7,730.00	7,755.03	7,696.74	99.51	28.28	-89.15	-3,640.70	3,647.21	1,664.19	1,540.86	123.32	13.494		
14,600.00	7,730.00	7,754.72	7,696.42	101.11	28.28	-89.14	-3,640.70	3,647.20	1,717.12	1,593.58	123.55	13.899		
14,700.00	7,730.00	7,750.00	7,691.71	102.72	28.27	-88.95	-3,640.72	3,647.14	1,774.12	1,650.51	123.61	14.352		
14,800.00	7,730.00	7,754.54	7,696.25	104.33	28.28	-89.13	-3,640.70	3,647.20	1,834.79	1,711.31	123.49	14.858		
14,900.00	7,730.00	7,754.22	7,695.93	105.94	28.28	-89.12	-3,640.71	3,647.20	1,898.80	1,775.54	123.27	15.404		
15,000.00	7,730.00	7,753.90	7,695.60	107.56	28.28	-89.10	-3,640.71	3,647.19	1,965.82	1,842.86	122.95	15.988		
15,100.00	7,730.00	7,753.57	7,695.27	109.18	28.28	-89.09	-3,640.71	3,647.19	2,035.54	1,912.97	122.57	16.607		
15,200.00	7,730.00	7,753.23	7,694.94	110.81	28.28	-89.08	-3,640.71	3,647.18	2,107.70	1,985.57	122.13	17.257		
15,300.00	7,730.00	7,752.90	7,694.60	112.44	28.27	-89.06	-3,640.71	3,647.18	2,182.06	2,060.41	121.66	17.936		
15,400.00	7,730.00	7,752.55	7,694.26	114.08	28.27	-89.05	-3,640.71	3,647.17	2,258.40	2,137.25	121.15	18.641		
15,500.00	7,730.00	7,752.20	7,693.90	115.72	28.27	-89.04	-3,640.71	3,647.17	2,336.53	2,215.89	120.63	19.369		
15,600.00	7,730.00	7,751.84	7,693.55	117.36	28.27	-89.02	-3,640.71	3,647.17	2,416.27	2,296.16	120.10	20.118		
15,700.00	7,730.00	7,751.48	7,693.19	119.00	28.27	-89.01	-3,640.72	3,647.16	2,497.46	2,377.89	119.57	20.887		
15,800.00	7,730.00	7,751.11	7,692.82	120.65	28.27	-88.99	-3,640.72	3,647.16	2,579.98	2,460.94	119.04	21.673		
15,900.00	7,730.00	7,750.74	7,692.44	122.30	28.27	-88.98	-3,640.72	3,647.15	2,663.70	2,545.18	118.52	22.475		
16,000.00	7,730.00	7,750.36	7,692.06	123.96	28.27	-88.96	-3,640.72	3,647.15	2,748.50	2,630.50	118.00	23.292		
16,100.00	7,730.00	7,749.97	7,691.67	125.61	28.27	-88.95	-3,640.72	3,647.14	2,834.30	2,716.80	117.50	24.122		
16,200.00	7,730.00	7,749.58	7,691.28	127.27	28.26	-88.93	-3,640.72	3,647.14	2,921.00	2,804.00	117.00	24.965		
16,300.00	7,730.00	7,749.17	7,690.88	128.94	28.26	-88.92	-3,640.72	3,647.14	3,008.52	2,892.00	116.53	25.819		
16,400.00	7,730.00	7,748.77	7,690.47	130.60	28.26	-88.90	-3,640.73	3,647.13	3,096.81	2,980.74	116.06	26.683		
16,500.00	7,730.00	7,748.35	7,690.06	132.27	28.26	-88.88	-3,640.73	3,647.13	3,185.78	3,070.17	115.61	27.556		
16,600.00	7,730.00	7,747.93	7,689.63	133.94	28.26	-88.87	-3,640.73	3,647.12	3,275.39	3,160.21	115.18	28.438		
16,700.00	7,730.00	7,747.50	7,689.20	135.61	28.26	-88.85	-3,640.73	3,647.12	3,365.58	3,250.83	114.76	29.328		
16,800.00	7,730.00	7,747.06	7,688.76	137.28	28.26	-88.83	-3,640.73	3,647.11	3,456.32	3,341.97	114.35	30.226		
16,900.00	7,730.00	7,746.61	7,688.32	138.96	28.25	-88.81	-3,640.74	3,647.11	3,547.55	3,433.59	113.96	31.130		
17,000.00	7,730.00	7,746.16	7,687.86	140.64	28.25	-88.80	-3,640.74	3,647.10	3,639.24	3,525.66	113.58	32.040		
17,100.00	7,730.00	7,745.69	7,687.40	142.32	28.25	-88.78	-3,640.74	3,647.10	3,731.36	3,618.14	113.22	32.956		
17,200.00	7,730.00	7,745.22	7,686.93	144.00	28.25	-88.76	-3,640.74	3,647.09	3,823.88	3,711.00	112.87	33.878		
17,300.00	7,730.00	7,744.74	7,686.44	145.69	28.25	-88.74	-3,640.74	3,647.09	3,916.76	3,804.22	112.54	34.804		
17,400.00	7,730.00	7,744.25	7,685.95	147.37	28.25	-88.72	-3,640.75	3,647.08	4,009.99	3,897.77	112.21	35.735		
17,500.00	7,730.00	7,743.75	7,685.45	149.06	28.24	-88.70	-3,640.75	3,647.08	4,103.53	3,991.63	111.90	36.670		
17,600.00	7,730.00	7,743.24	7,684.94	150.75	28.24	-88.68	-3,640.75	3,647.07	4,197.37	4,085.77	111.60	37.609		
17,700.00	7,730.00	7,742.72	7,684.42	152.44	28.24	-88.66	-3,640.75	3,647.07	4,291.49	4,180.18	111.32	38.552		
17,800.00	7,730.00	7,742.19	7,683.89	154.13	28.24	-88.64	-3,640.76	3,647.06	4,385.87	4,274.83	111.04	39.498		
17,900.00	7,730.00	7,741.65	7,683.35	155.83	28.24	-88.62	-3,640.76	3,647.05	4,480.50	4,369.72	110.78	40.447		
18,000.00	7,730.00	7,741.09	7,682.80	157.52	28.24	-88.59	-3,640.76	3,647.05	4,575.35	4,464.83	110.52	41.398		
18,100.00	7,730.00	7,740.53	7,682.23	159.22	28.23	-88.57	-3,640.76	3,647.04	4,670.42	4,560.15	110.27	42.353		
18,200.00	7,730.00	7,739.95	7,681.66	160.92	28.23	-88.55	-3,640.77	3,647.04	4,765.69	4,655.65	110.04	43.310		
18,300.00	7,730.00	7,739.36	7,681.07	162.62	28.23	-88.52	-3,640.77	3,647.03	4,861.15	4,751.34	109.81	44.269		
18,400.00	7,730.00	7,738.76	7,680.47	164.32	28.23	-88.50	-3,640.77	3,647.03	4,956.79	4,847.20	109.59	45.230		
18,426.22	7,730.00	7,738.60	7,680.31	164.76	28.23	-88.49	-3,640.77	3,647.02	4,981.89	4,872.36	109.54	45.482		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	29.86	29.86	0.00	0.05	163.10	-7,122.07	2,164.28	7,443.65					
100.00	100.00	151.48	151.47	0.13	0.38	163.09	-7,121.49	2,165.00	7,443.37	7,442.86	0.51	N/A		
200.00	200.00	231.83	231.82	0.49	0.66	163.09	-7,121.43	2,164.37	7,443.08	7,441.92	1.15	6,451.769		
234.99	234.99	257.00	256.99	0.62	0.75	163.10	-7,121.50	2,164.09	7,443.05	7,441.69	1.37	5,444.406		
300.00	300.00	292.38	292.36	0.85	0.87	163.10	-7,121.71	2,163.62	7,443.18	7,441.45	1.73	4,314.206		
400.00	400.00	349.00	348.97	1.21	1.07	163.11	-7,122.44	2,162.64	7,443.89	7,441.61	2.28	3,259.340		
500.00	500.00	411.73	411.67	1.57	1.30	163.12	-7,123.71	2,161.22	7,445.15	7,442.29	2.87	2,597.759		
600.00	600.00	482.09	481.97	1.93	1.55	163.14	-7,125.63	2,158.98	7,446.84	7,443.36	3.48	2,141.340		
700.00	700.00	898.00	894.54	2.29	3.18	163.52	-7,140.90	2,112.36	7,448.78	7,443.31	5.46	1,363.674		
800.00	800.00	948.79	944.27	2.64	3.41	163.60	-7,142.76	2,102.21	7,446.70	7,440.64	6.05	1,230.596		
900.00	900.00	1,002.70	996.95	3.00	3.66	163.69	-7,145.40	2,091.09	7,445.46	7,438.81	6.66	1,118.296		
1,000.00	1,000.00	1,071.07	1,063.45	3.36	3.99	163.81	-7,149.21	2,075.62	7,444.53	7,437.18	7.35	1,013.009		
1,065.60	1,065.60	1,096.00	1,087.60	3.60	4.11	163.86	-7,150.85	2,069.66	7,444.34	7,436.63	7.71	965.826		
1,100.00	1,100.00	1,096.00	1,087.60	3.72	4.11	163.86	-7,150.85	2,069.66	7,444.42	7,436.59	7.83	950.626		
1,200.00	1,200.00	1,134.22	1,124.57	4.08	4.31	163.93	-7,153.74	2,060.44	7,445.20	7,436.81	8.39	887.752		
1,300.00	1,299.98	1,183.00	1,171.73	4.43	4.56	116.87	-7,158.17	2,048.79	7,447.91	7,438.91	8.99	828.106		
1,400.00	1,399.84	1,183.00	1,171.73	4.79	4.56	116.78	-7,158.17	2,048.79	7,452.96	7,443.61	9.35	797.385		
1,500.00	1,499.45	1,238.57	1,225.26	5.15	4.87	116.79	-7,164.05	2,035.06	7,460.51	7,450.50	10.01	745.605		
1,600.00	1,598.70	1,271.00	1,256.32	5.51	5.04	116.71	-7,167.80	2,026.54	7,470.41	7,459.86	10.54	708.523		
1,700.00	1,697.47	1,320.97	1,304.06	5.89	5.33	116.65	-7,174.01	2,013.14	7,482.65	7,471.45	11.20	668.126		
1,800.00	1,795.62	1,360.07	1,341.39	6.28	5.56	116.52	-7,179.18	2,002.70	7,497.33	7,485.53	11.80	635.122		
1,900.00	1,893.06	1,473.97	1,450.10	6.69	6.23	116.64	-7,194.23	1,972.24	7,513.80	7,500.93	12.87	583.661		
2,000.00	1,989.64	1,532.00	1,505.42	7.13	6.58	116.53	-7,202.01	1,956.55	7,532.27	7,518.63	13.64	552.403		
2,100.00	2,085.27	1,574.79	1,546.14	7.61	6.85	116.33	-7,207.97	1,944.82	7,552.98	7,538.64	14.34	526.885		
2,200.00	2,179.82	1,620.00	1,589.04	8.12	7.13	116.11	-7,214.59	1,932.20	7,576.02	7,560.94	15.08	502.516		
2,300.00	2,273.17	1,659.23	1,626.22	8.67	7.38	115.82	-7,220.53	1,921.19	7,601.35	7,585.54	15.81	480.688		
2,400.00	2,365.21	1,707.00	1,671.50	9.27	7.68	115.54	-7,227.96	1,907.89	7,628.94	7,612.30	16.64	458.550		
2,500.00	2,455.84	1,991.95	1,942.52	9.92	9.48	116.43	-7,268.69	1,829.94	7,657.91	7,638.92	18.99	403.273		
2,580.62	2,527.80	2,259.53	2,199.44	10.49	11.09	117.33	-7,297.86	1,761.23	7,680.39	7,659.30	21.08	364.310		
2,600.00	2,544.97	2,265.83	2,205.50	10.63	11.13	117.36	-7,298.47	1,759.62	7,685.87	7,664.63	21.24	361.882		
2,700.00	2,633.58	2,318.00	2,255.58	11.37	11.44	117.63	-7,303.84	1,746.02	7,714.73	7,692.56	22.17	347.956		
2,800.00	2,722.19	2,340.56	2,277.21	12.13	11.58	117.74	-7,306.28	1,740.07	7,744.34	7,721.40	22.94	337.578		
2,900.00	2,810.80	2,542.62	2,471.44	12.91	12.79	118.74	-7,326.55	1,688.22	7,774.30	7,749.51	24.79	313.561		
3,000.00	2,899.41	3,000.00	2,582.82	13.71	15.47	119.30	-7,336.41	1,659.55	7,803.51	7,775.41	28.10	277.678		
3,100.00	2,988.02	2,705.02	2,628.05	14.52	13.75	119.53	-7,340.37	1,647.53	7,833.13	7,806.08	27.05	289.532		
3,200.00	3,076.63	2,755.00	2,676.15	15.34	14.05	119.77	-7,345.05	1,634.79	7,863.76	7,835.75	28.01	280.745		
3,300.00	3,165.24	2,780.29	2,700.49	16.16	14.19	119.89	-7,347.53	1,628.42	7,895.08	7,866.26	28.82	273.968		
3,400.00	3,253.85	2,900.04	2,816.16	17.00	14.89	120.46	-7,358.60	1,599.47	7,926.72	7,896.55	30.17	262.733		
3,500.00	3,342.46	3,106.65	3,016.48	17.84	16.05	121.41	-7,375.45	1,551.73	7,958.23	7,926.24	31.99	248.761		
3,600.00	3,431.07	3,147.32	3,055.82	18.69	16.28	121.60	-7,378.53	1,541.90	7,989.48	7,956.59	32.89	242.934		
3,700.00	3,519.68	3,191.00	3,097.98	19.55	16.53	121.80	-7,382.05	1,531.04	8,021.46	7,987.66	33.80	237.339		
3,800.00	3,608.29	3,230.55	3,136.08	20.40	16.77	121.99	-7,385.42	1,521.00	8,054.16	8,019.48	34.69	232.197		
3,900.00	3,696.90	3,278.00	3,181.73	21.26	17.05	122.21	-7,389.68	1,508.77	8,087.61	8,051.99	35.62	227.058		
4,000.00	3,785.51	3,278.00	3,181.73	22.13	17.05	122.21	-7,389.68	1,508.77	8,121.89	8,085.63	36.26	223.969		
4,100.00	3,874.12	3,320.34	3,222.43	23.00	17.31	122.41	-7,393.83	1,497.88	8,156.91	8,119.76	37.16	219.528		
4,200.00	3,962.73	3,366.00	3,266.33	23.87	17.58	122.62	-7,398.82	1,486.33	8,192.97	8,154.90	38.06	215.237		
4,300.00	4,051.34	4,300.00	3,315.15	24.74	23.26	122.86	-7,404.39	1,473.34	8,229.52	8,185.34	44.18	186.279		
4,400.00	4,139.95	3,540.00	3,433.36	25.62	18.65	123.43	-7,417.17	1,441.17	8,265.92	8,225.54	40.38	204.723		
4,500.00	4,228.56	3,575.03	3,466.88	26.49	18.87	123.59	-7,420.81	1,431.71	8,302.95	8,261.73	41.21	201.457		
4,600.00	4,317.17	3,597.04	3,487.90	27.37	19.01	123.70	-7,423.27	1,425.63	8,340.85	8,298.88	41.96	198.762		
4,700.00	4,405.78	4,630.47	4,503.51	28.25	23.45	127.46	-7,479.99	1,285.85	8,377.16	8,330.01	47.15	177.688		
4,800.00	4,494.39	4,816.74	4,689.75	29.13	23.89	127.95	-7,477.23	1,285.44	8,406.09	8,357.81	48.28	174.098		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,583.00	4,980.37	4,853.33	30.02	24.27	128.37	-7,473.10	1,284.88	8,434.22	8,384.86	49.36	170.871		
5,000.00	4,671.61	5,115.59	4,988.48	30.90	24.59	128.72	-7,468.77	1,284.27	8,461.92	8,411.55	50.37	168.003		
5,100.00	4,760.22	5,180.93	5,053.78	31.79	24.75	128.89	-7,466.60	1,284.05	8,489.65	8,438.46	51.19	165.835		
5,200.00	4,848.83	5,248.07	5,120.90	32.67	24.91	129.06	-7,464.54	1,283.96	8,517.76	8,465.74	52.02	163.736		
5,300.00	4,937.44	5,286.00	5,158.81	33.56	25.00	129.15	-7,463.46	1,283.98	8,546.31	8,493.55	52.77	161.958		
5,400.00	5,026.05	5,286.00	5,158.81	34.45	25.00	129.15	-7,463.46	1,283.98	8,575.83	8,522.42	53.41	160.575		
5,500.00	5,114.66	5,365.21	5,238.00	35.34	25.22	129.36	-7,461.89	1,283.57	8,605.39	8,551.12	54.28	158.552		
5,600.00	5,203.27	5,397.27	5,270.06	36.23	25.30	129.44	-7,461.62	1,283.11	8,636.04	8,581.04	55.00	157.026		
5,700.00	5,291.88	5,461.00	5,333.77	37.12	25.48	129.61	-7,461.70	1,281.73	8,667.57	8,611.76	55.81	155.304		
5,800.00	5,380.50	5,461.00	5,333.77	38.01	25.48	129.61	-7,461.70	1,281.73	8,699.49	8,643.06	56.42	154.181		
5,900.00	5,469.11	5,521.53	5,394.28	38.90	25.65	129.77	-7,462.27	1,280.29	8,732.14	8,674.91	57.23	152.592		
6,000.00	5,557.72	5,583.11	5,455.84	39.79	25.83	129.93	-7,463.04	1,279.19	8,765.19	8,707.16	58.03	151.052		
6,100.00	5,646.33	5,697.01	5,569.73	40.68	26.15	130.21	-7,464.68	1,278.03	8,798.61	8,739.61	58.99	149.145		
6,200.00	5,734.94	5,929.05	5,801.77	41.58	26.79	130.78	-7,465.11	1,276.91	8,830.82	8,770.48	60.33	146.369		
6,300.00	5,823.55	6,117.36	5,990.05	42.47	27.31	131.24	-7,463.11	1,275.34	8,862.25	8,800.73	61.52	144.048		
6,400.00	5,912.16	6,225.18	6,097.85	43.36	27.60	131.50	-7,461.14	1,275.46	8,893.07	8,830.60	62.46	142.376		
6,500.00	6,000.77	6,307.83	6,180.49	44.26	27.82	131.69	-7,459.63	1,275.01	8,924.04	8,860.72	63.32	140.936		
6,600.00	6,089.38	6,402.40	6,275.04	45.15	28.08	131.92	-7,457.92	1,274.06	8,955.17	8,890.96	64.22	139.450		
6,700.00	6,177.99	6,502.91	6,375.53	46.05	28.36	132.16	-7,455.99	1,273.26	8,986.32	8,921.19	65.14	137.963		
6,800.00	6,266.60	6,567.90	6,440.50	46.94	28.54	132.31	-7,454.78	1,272.94	9,017.65	8,951.71	65.93	136.769		
6,900.00	6,355.21	6,630.65	6,503.25	47.84	28.71	132.45	-7,453.81	1,272.90	9,049.35	8,982.63	66.72	135.629		
7,000.00	6,443.82	6,699.20	6,571.79	48.74	28.90	132.61	-7,452.97	1,273.13	9,081.42	9,013.90	67.52	134.491		
7,100.00	6,532.43	6,796.51	6,669.10	49.63	29.16	132.83	-7,451.81	1,273.61	9,113.65	9,045.23	68.41	133.214		
7,200.00	6,621.04	6,900.34	6,772.91	50.53	29.44	133.06	-7,450.47	1,274.15	9,145.89	9,076.56	69.32	131.931		
7,300.00	6,709.65	7,015.23	6,887.79	51.42	29.75	133.31	-7,448.70	1,274.55	9,178.02	9,107.75	70.27	130.612		
7,400.00	6,798.26	7,091.79	6,964.33	52.32	29.96	133.48	-7,447.43	1,274.71	9,210.18	9,139.08	71.09	129.550		
7,500.00	6,886.87	7,161.68	7,034.22	53.22	30.16	133.63	-7,446.41	1,274.82	9,242.62	9,170.73	71.90	128.557		
7,600.00	6,975.48	7,249.81	7,122.34	54.12	30.40	133.83	-7,445.29	1,274.98	9,275.33	9,202.58	72.75	127.490		
7,656.30	7,025.36	7,318.74	7,191.26	54.62	30.59	133.98	-7,444.31	1,275.31	9,293.71	9,220.41	73.30	126.792		
7,700.00	7,064.54	7,373.01	7,245.53	55.00	30.74	126.84	-7,443.46	1,275.74	9,306.35	9,232.63	73.73	126.230		
7,750.00	7,110.29	7,412.36	7,284.87	55.40	30.85	116.80	-7,442.81	1,276.09	9,316.86	9,242.72	74.14	125.667		
7,800.00	7,156.67	7,448.15	7,320.65	55.75	30.95	104.94	-7,442.27	1,276.38	9,323.16	9,248.63	74.54	125.078		
7,850.00	7,203.34	7,484.08	7,356.58	56.05	31.05	92.04	-7,441.76	1,276.64	9,325.22	9,250.29	74.93	124.451		
7,900.00	7,249.95	7,519.88	7,392.38	56.30	31.15	79.44	-7,441.29	1,276.85	9,323.02	9,247.71	75.31	123.795		
7,950.00	7,296.14	7,556.00	7,428.49	56.50	31.25	68.30	-7,440.86	1,277.02	9,316.58	9,240.90	75.67	123.115		
8,000.00	7,341.56	7,600.68	7,473.17	56.64	31.38	59.20	-7,440.35	1,277.22	9,305.91	9,229.86	76.05	122.365		
8,050.00	7,385.86	7,645.08	7,517.57	56.74	31.50	52.05	-7,439.84	1,277.40	9,291.08	9,214.68	76.41	121.599		
8,100.00	7,428.71	7,687.97	7,560.46	56.79	31.62	46.57	-7,439.35	1,277.58	9,272.20	9,195.46	76.74	120.824		
8,150.00	7,469.77	7,729.03	7,601.51	56.80	31.74	42.41	-7,438.88	1,277.75	9,249.40	9,172.35	77.05	120.042		
8,200.00	7,508.75	7,762.91	7,635.39	56.77	31.84	39.27	-7,438.50	1,277.91	9,222.87	9,145.56	77.32	119.283		
8,250.00	7,545.33	7,794.50	7,666.98	56.70	31.92	36.98	-7,438.16	1,278.12	9,192.83	9,115.26	77.56	118.521		
8,300.00	7,579.25	7,823.81	7,696.28	56.59	32.01	35.39	-7,437.87	1,278.36	9,159.48	9,081.69	77.78	117.756		
8,350.00	7,610.24	7,850.60	7,723.07	56.45	32.08	34.41	-7,437.63	1,278.63	9,123.07	9,045.09	77.98	116.991		
8,400.00	7,638.06	7,874.68	7,747.14	56.28	32.15	34.04	-7,437.42	1,278.90	9,083.88	9,005.73	78.16	116.227		
8,450.00	7,662.52	7,895.83	7,768.29	56.09	32.21	34.32	-7,437.25	1,279.17	9,042.20	8,963.89	78.31	115.468		
8,500.00	7,683.41	7,905.00	7,777.46	55.88	32.23	35.33	-7,437.17	1,279.29	8,998.34	8,919.92	78.41	114.759		
8,550.00	7,700.59	7,925.47	7,797.93	55.64	32.29	37.56	-7,437.02	1,279.57	8,952.61	8,874.07	78.54	113.988		
8,600.00	7,713.91	7,935.37	7,807.83	55.39	32.32	41.59	-7,436.96	1,279.71	8,905.36	8,826.74	78.63	113.262		
8,650.00	7,723.29	7,942.27	7,814.73	55.14	32.34	49.29	-7,436.91	1,279.81	8,856.96	8,778.26	78.70	112.547		
8,700.00	7,728.64	7,946.12	7,818.58	54.87	32.35	65.83	-7,436.89	1,279.87	8,807.74	8,728.99	78.75	111.844		
8,740.83	7,730.00	7,946.97	7,819.42	54.65	32.35	94.19	-7,436.88	1,279.88	8,767.22	8,688.43	78.78	111.281		
8,800.00	7,730.00	7,946.69	7,819.15	54.33	32.35	94.17	-7,436.88	1,279.88	8,708.38	8,629.55	78.83	110.474		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,730.00	7,946.21	7,818.67	53.82	32.35	94.14	-7,436.89	1,279.87	8,608.95	8,530.05	78.90	109.110		
9,000.00	7,730.00	7,945.73	7,818.19	53.33	32.35	94.11	-7,436.89	1,279.86	8,509.53	8,430.55	78.98	107.745		
9,100.00	7,730.00	7,945.25	7,817.71	52.87	32.34	94.08	-7,436.89	1,279.86	8,410.13	8,331.07	79.06	106.378		
9,200.00	7,730.00	7,944.77	7,817.23	52.44	32.34	94.05	-7,436.89	1,279.85	8,310.74	8,231.60	79.14	105.010		
9,300.00	7,730.00	7,944.29	7,816.74	52.03	32.34	94.02	-7,436.90	1,279.84	8,211.37	8,132.14	79.23	103.641		
9,400.00	7,730.00	7,943.80	7,816.26	51.65	32.34	93.99	-7,436.90	1,279.84	8,112.01	8,032.69	79.32	102.271		
9,500.00	7,730.00	7,943.30	7,815.76	51.29	32.34	93.96	-7,436.90	1,279.83	8,012.67	7,933.25	79.41	100.900		
9,600.00	7,730.00	7,942.81	7,815.27	50.95	32.34	93.93	-7,436.91	1,279.82	7,913.34	7,833.83	79.51	99.528		
9,700.00	7,730.00	7,942.31	7,814.77	50.64	32.34	93.90	-7,436.91	1,279.81	7,814.03	7,734.42	79.61	98.155		
9,800.00	7,730.00	7,941.81	7,814.27	50.35	32.34	93.87	-7,436.91	1,279.81	7,714.74	7,635.03	79.71	96.781		
9,900.00	7,730.00	7,941.31	7,813.77	50.09	32.33	93.84	-7,436.92	1,279.80	7,615.47	7,535.65	79.82	95.406		
10,000.00	7,730.00	7,940.80	7,813.26	49.86	32.33	93.81	-7,436.92	1,279.79	7,516.22	7,436.28	79.93	94.030		
10,100.00	7,730.00	7,940.29	7,812.75	49.65	32.33	93.77	-7,436.92	1,279.78	7,416.98	7,336.93	80.05	92.654		
10,200.00	7,730.00	7,939.78	7,812.24	49.48	32.33	93.74	-7,436.93	1,279.78	7,317.77	7,237.60	80.17	91.276		
10,300.00	7,730.00	7,939.26	7,811.72	49.35	32.33	93.71	-7,436.93	1,279.77	7,218.58	7,138.28	80.30	89.898		
10,400.00	7,730.00	7,938.74	7,811.21	49.27	32.33	93.68	-7,436.93	1,279.76	7,119.41	7,038.98	80.43	88.520		
10,500.00	7,730.00	7,938.22	7,810.68	49.26	32.33	93.65	-7,436.94	1,279.76	7,020.27	6,939.70	80.56	87.140		
10,600.00	7,730.00	7,937.70	7,810.16	49.32	32.32	93.61	-7,436.94	1,279.75	6,921.15	6,840.44	80.70	85.760		
10,700.00	7,730.00	7,937.17	7,809.63	49.51	32.32	93.58	-7,436.94	1,279.74	6,822.05	6,741.20	80.85	84.380		
10,800.00	7,730.00	7,936.64	7,809.10	49.83	32.32	93.55	-7,436.95	1,279.73	6,722.99	6,641.98	81.00	82.999		
10,900.00	7,730.00	7,936.10	7,808.56	50.31	32.32	93.51	-7,436.95	1,279.72	6,623.95	6,542.79	81.16	81.618		
11,000.00	7,730.00	7,935.56	7,808.02	50.96	32.32	93.48	-7,436.95	1,279.72	6,524.94	6,443.61	81.32	80.236		
11,100.00	7,730.00	7,935.02	7,807.48	51.75	32.32	93.45	-7,436.96	1,279.71	6,425.96	6,344.46	81.49	78.854		
11,200.00	7,730.00	7,934.47	7,806.94	52.66	32.32	93.41	-7,436.96	1,279.70	6,327.01	6,245.34	81.67	77.471		
11,300.00	7,730.00	7,933.93	7,806.39	53.67	32.31	93.38	-7,436.96	1,279.69	6,228.09	6,146.24	81.85	76.089		
11,400.00	7,730.00	7,933.37	7,805.83	54.75	32.31	93.35	-7,436.97	1,279.69	6,129.21	6,047.17	82.04	74.706		
11,500.00	7,730.00	7,932.82	7,805.28	55.89	32.31	93.31	-7,436.97	1,279.68	6,030.37	5,948.13	82.24	73.323		
11,600.00	7,730.00	7,932.26	7,804.72	57.07	32.31	93.28	-7,436.98	1,279.67	5,931.57	5,849.12	82.45	71.940		
11,700.00	7,730.00	7,931.70	7,804.16	58.30	32.31	93.24	-7,436.98	1,279.66	5,832.81	5,750.14	82.67	70.557		
11,800.00	7,730.00	7,931.13	7,803.59	59.55	32.31	93.21	-7,436.98	1,279.65	5,734.09	5,651.19	82.89	69.174		
11,900.00	7,730.00	7,930.56	7,803.02	60.84	32.30	93.17	-7,436.99	1,279.65	5,635.41	5,552.28	83.13	67.791		
12,000.00	7,730.00	7,929.98	7,802.45	62.15	32.30	93.14	-7,436.99	1,279.64	5,536.79	5,453.41	83.37	66.409		
12,100.00	7,730.00	7,929.41	7,801.87	63.49	32.30	93.10	-7,437.00	1,279.63	5,438.21	5,354.58	83.63	65.027		
12,200.00	7,730.00	7,928.83	7,801.29	64.85	32.30	93.06	-7,437.00	1,279.62	5,339.68	5,255.79	83.90	63.645		
12,300.00	7,730.00	7,928.24	7,800.70	66.22	32.30	93.03	-7,437.00	1,279.61	5,241.22	5,157.04	84.18	62.264		
12,400.00	7,730.00	7,927.65	7,800.11	67.62	32.30	92.99	-7,437.01	1,279.60	5,142.81	5,058.34	84.47	60.884		
12,500.00	7,730.00	7,927.06	7,799.52	69.03	32.29	92.95	-7,437.01	1,279.60	5,044.46	4,959.69	84.77	59.504		
12,600.00	7,730.00	7,926.46	7,798.92	70.45	32.29	92.92	-7,437.02	1,279.59	4,946.18	4,861.08	85.09	58.126		
12,700.00	7,730.00	7,925.86	7,798.32	71.90	32.29	92.88	-7,437.02	1,279.58	4,847.97	4,762.54	85.43	56.748		
12,800.00	7,730.00	7,925.26	7,797.72	73.35	32.29	92.84	-7,437.02	1,279.57	4,749.83	4,664.05	85.78	55.371		
12,900.00	7,730.00	7,924.65	7,797.11	74.81	32.29	92.80	-7,437.03	1,279.56	4,651.78	4,565.63	86.15	53.996		
13,000.00	7,730.00	7,924.03	7,796.50	76.29	32.29	92.77	-7,437.03	1,279.55	4,553.80	4,467.27	86.54	52.622		
13,100.00	7,730.00	7,923.42	7,795.88	77.78	32.28	92.73	-7,437.04	1,279.54	4,455.92	4,368.98	86.95	51.250		
13,200.00	7,730.00	7,922.80	7,795.26	79.28	32.28	92.69	-7,437.04	1,279.54	4,358.14	4,270.76	87.37	49.879		
13,300.00	7,730.00	7,922.17	7,794.63	80.79	32.28	92.65	-7,437.05	1,279.53	4,260.45	4,172.63	87.82	48.511		
13,400.00	7,730.00	7,921.54	7,794.00	82.31	32.28	92.61	-7,437.05	1,279.52	4,162.88	4,074.58	88.30	47.145		
13,500.00	7,730.00	7,920.91	7,793.37	83.84	32.28	92.57	-7,437.05	1,279.51	4,065.42	3,976.62	88.80	45.781		
13,600.00	7,730.00	7,920.27	7,792.73	85.37	32.28	92.53	-7,437.06	1,279.50	3,968.10	3,878.76	89.33	44.420		
13,700.00	7,730.00	7,919.63	7,792.09	86.92	32.27	92.49	-7,437.06	1,279.49	3,870.90	3,781.01	89.89	43.063		
13,800.00	7,730.00	7,918.98	7,791.44	88.47	32.27	92.45	-7,437.07	1,279.48	3,773.86	3,683.37	90.48	41.708		
13,900.00	7,730.00	7,918.31	7,790.79	90.03	32.28	92.41	-7,437.07	1,279.47	3,676.96	3,585.85	91.12	40.354		
14,000.00	7,730.00	7,917.64	7,790.14	91.59	32.27	92.37	-7,437.07	1,279.46	3,580.25	3,488.46	91.78	39.007		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,918.05	7,790.51	93.16	32.27	92.39	-7,437.07	1,279.47	3,483.72	3,391.23	92.49	37.666		
14,200.00	7,730.00	7,917.31	7,789.77	94.74	32.27	92.35	-7,437.08	1,279.46	3,387.38	3,294.14	93.24	36.329		
14,300.00	7,730.00	7,916.57	7,789.03	96.33	32.27	92.30	-7,437.08	1,279.45	3,291.27	3,197.23	94.04	34.999		
14,400.00	7,730.00	7,915.82	7,788.28	97.92	32.26	92.26	-7,437.09	1,279.44	3,195.40	3,100.51	94.89	33.674		
14,500.00	7,730.00	7,915.07	7,787.54	99.51	32.26	92.21	-7,437.10	1,279.43	3,099.79	3,003.98	95.80	32.356		
14,600.00	7,730.00	7,914.32	7,786.79	101.11	32.26	92.16	-7,437.10	1,279.42	3,004.46	2,907.68	96.77	31.046		
14,700.00	7,730.00	7,913.57	7,786.03	102.72	32.26	92.12	-7,437.11	1,279.41	2,909.44	2,811.63	97.82	29.744		
14,800.00	7,730.00	7,912.81	7,785.27	104.33	32.26	92.07	-7,437.11	1,279.40	2,814.77	2,715.84	98.93	28.451		
14,900.00	7,730.00	7,912.05	7,784.51	105.94	32.25	92.02	-7,437.12	1,279.39	2,720.49	2,620.35	100.13	27.169		
15,000.00	7,730.00	7,911.29	7,783.75	107.56	32.25	91.97	-7,437.12	1,279.38	2,626.62	2,525.20	101.42	25.898		
15,100.00	7,730.00	7,910.52	7,782.98	109.18	32.25	91.93	-7,437.13	1,279.37	2,533.23	2,430.41	102.81	24.640		
15,200.00	7,730.00	7,909.75	7,782.21	110.81	32.25	91.88	-7,437.14	1,279.35	2,440.35	2,336.04	104.31	23.395		
15,300.00	7,730.00	7,908.97	7,781.44	112.44	32.25	91.83	-7,437.14	1,279.34	2,348.06	2,242.14	105.93	22.166		
15,400.00	7,730.00	7,908.20	7,780.66	114.08	32.24	91.78	-7,437.15	1,279.33	2,256.43	2,148.75	107.68	20.955		
15,500.00	7,730.00	7,907.42	7,779.88	115.72	32.24	91.73	-7,437.15	1,279.32	2,165.54	2,055.96	109.58	19.762		
15,600.00	7,730.00	7,906.63	7,779.10	117.36	32.24	91.68	-7,437.16	1,279.31	2,075.49	1,963.85	111.64	18.591		
15,700.00	7,730.00	7,905.84	7,778.31	119.00	32.24	91.64	-7,437.17	1,279.30	1,986.39	1,872.51	113.88	17.443		
15,800.00	7,730.00	7,905.05	7,777.52	120.65	32.23	91.59	-7,437.17	1,279.29	1,898.38	1,782.07	116.31	16.322		
15,900.00	7,730.00	7,904.26	7,776.72	122.30	32.23	91.54	-7,437.18	1,279.28	1,811.60	1,692.65	118.96	15.229		
16,000.00	7,730.00	7,903.46	7,775.93	123.96	32.23	91.49	-7,437.19	1,279.27	1,726.27	1,604.43	121.84	14.169		
16,100.00	7,730.00	7,902.66	7,775.12	125.61	32.23	91.44	-7,437.19	1,279.26	1,642.58	1,517.61	124.97	13.144		
16,200.00	7,730.00	7,901.85	7,774.32	127.27	32.23	91.39	-7,437.20	1,279.25	1,560.82	1,432.45	128.37	12.159		
16,300.00	7,730.00	7,901.05	7,773.51	128.94	32.22	91.34	-7,437.20	1,279.24	1,481.29	1,349.24	132.05	11.218		
16,400.00	7,730.00	7,900.23	7,772.70	130.60	32.22	91.29	-7,437.21	1,279.23	1,404.39	1,268.37	136.02	10.325		
16,500.00	7,730.00	7,899.42	7,771.88	132.27	32.22	91.24	-7,437.22	1,279.21	1,330.55	1,190.28	140.27	9.486		
16,600.00	7,730.00	7,898.60	7,771.06	133.94	32.22	91.19	-7,437.22	1,279.20	1,260.33	1,115.55	144.78	8.705		
16,700.00	7,730.00	7,897.78	7,770.24	135.61	32.21	91.13	-7,437.23	1,279.19	1,194.37	1,044.86	149.50	7.989		
16,800.00	7,730.00	7,896.95	7,769.41	137.28	32.21	91.08	-7,437.24	1,279.18	1,133.39	979.05	154.35	7.343		
16,900.00	7,730.00	7,896.12	7,768.58	138.96	32.21	91.03	-7,437.24	1,279.17	1,078.26	919.09	159.17	6.774		
17,000.00	7,730.00	7,895.28	7,767.75	140.64	32.21	90.98	-7,437.25	1,279.16	1,029.91	866.12	163.79	6.288		
17,100.00	7,730.00	7,894.45	7,766.91	142.32	32.20	90.93	-7,437.26	1,279.15	989.33	821.39	167.95	5.891		
17,200.00	7,730.00	7,893.60	7,766.07	144.00	32.20	90.87	-7,437.26	1,279.14	957.52	786.16	171.36	5.588		
17,300.00	7,730.00	7,892.76	7,765.22	145.69	32.20	90.82	-7,437.27	1,279.13	935.37	761.65	173.71	5.385		
17,400.00	7,730.00	7,891.91	7,764.37	147.37	32.20	90.77	-7,437.28	1,279.12	923.56	748.80	174.76	5.285		
17,459.70	7,730.00	7,891.40	7,763.87	148.38	32.20	90.74	-7,437.28	1,279.11	921.63	746.94	174.70	5.276 CC, ES, SF		
17,500.00	7,730.00	7,891.06	7,763.52	149.06	32.20	90.72	-7,437.28	1,279.10	922.51	748.16	174.35	5.291		
17,600.00	7,730.00	7,890.20	7,762.66	150.75	32.19	90.66	-7,437.29	1,279.09	932.25	759.78	172.47	5.405		
17,700.00	7,730.00	7,889.34	7,761.80	152.44	32.19	90.61	-7,437.30	1,279.08	952.44	783.18	169.27	5.627		
17,800.00	7,730.00	7,888.47	7,760.94	154.13	32.19	90.56	-7,437.30	1,279.07	982.45	817.45	165.00	5.954		
17,900.00	7,730.00	7,887.60	7,760.07	155.83	32.19	90.50	-7,437.31	1,279.06	1,021.40	861.42	159.98	6.385		
18,000.00	7,730.00	7,886.73	7,759.20	157.52	32.18	90.45	-7,437.32	1,279.05	1,068.32	913.80	154.52	6.914		
18,100.00	7,730.00	7,885.85	7,758.32	159.22	32.18	90.39	-7,437.33	1,279.04	1,122.21	973.31	148.90	7.536		
18,200.00	7,730.00	7,884.97	7,757.44	160.92	32.18	90.34	-7,437.33	1,279.03	1,182.12	1,038.79	143.34	8.247		
18,300.00	7,730.00	7,884.09	7,756.55	162.62	32.18	90.28	-7,437.34	1,279.02	1,247.18	1,109.22	137.96	9.040		
18,400.00	7,730.00	7,883.20	7,755.66	164.32	32.17	90.23	-7,437.35	1,279.00	1,316.63	1,183.75	132.88	9.908		
18,426.22	7,730.00	7,882.96	7,755.43	164.76	32.17	90.21	-7,437.35	1,279.00	1,335.48	1,203.88	131.60	10.148		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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				
0.00	0.00	68.88	68.87	0.00	0.11	163.13	-7,136.61	2,163.65	7,457.53							
100.00	100.00	124.81	124.79	0.13	0.29	163.14	-7,136.67	2,162.72	7,457.17	7,456.75	0.43	N/A				
105.78	105.78	127.79	127.78	0.16	0.30	163.14	-7,136.69	2,162.67	7,457.17	7,456.71	0.46	N/A				
200.00	200.00	187.55	187.53	0.49	0.52	163.15	-7,137.18	2,161.71	7,457.45	7,456.43	1.01	7,377.489				
300.00	300.00	295.06	294.95	0.85	0.91	163.18	-7,138.78	2,157.96	7,457.86	7,456.10	1.76	4,236.519				
400.00	400.00	374.02	373.74	1.21	1.20	163.22	-7,140.59	2,153.01	7,458.27	7,455.85	2.41	3,091.204				
500.00	500.00	440.00	439.46	1.57	1.45	163.27	-7,142.94	2,147.70	7,459.29	7,456.27	3.02	2,468.570				
600.00	600.00	440.00	439.46	1.93	1.45	163.27	-7,142.94	2,147.70	7,461.07	7,457.69	3.38	2,207.076				
700.00	700.00	483.84	483.05	2.29	1.63	163.30	-7,145.23	2,143.68	7,463.70	7,459.79	3.91	1,908.229				
800.00	800.00	533.00	531.84	2.64	1.82	163.34	-7,148.81	2,138.75	7,467.53	7,463.06	4.46	1,673.323				
900.00	900.00	533.00	531.84	3.00	1.82	163.34	-7,148.81	2,138.75	7,472.08	7,467.26	4.82	1,550.269				
1,000.00	1,000.00	578.38	576.77	3.36	2.01	163.39	-7,152.86	2,133.86	7,477.63	7,472.27	5.36	1,394.469				
1,100.00	1,100.00	625.00	622.85	3.72	2.21	163.44	-7,157.54	2,128.54	7,483.99	7,478.08	5.91	1,266.387				
1,200.00	1,200.00	656.86	654.28	4.08	2.35	163.47	-7,161.06	2,124.67	7,491.15	7,484.75	6.40	1,170.251				
1,300.00	1,299.98	717.00	713.42	4.43	2.61	116.28	-7,168.51	2,116.71	7,500.00	7,492.99	7.01	1,069.444				
1,400.00	1,399.84	717.00	713.42	4.79	2.61	116.08	-7,168.51	2,116.71	7,511.08	7,503.72	7.36	1,020.253				
1,500.00	1,499.45	757.24	752.82	5.15	2.80	115.91	-7,174.17	2,110.85	7,524.64	7,516.74	7.90	952.627				
1,600.00	1,598.70	809.00	803.25	5.51	3.05	115.74	-7,182.42	2,102.59	7,540.80	7,532.31	8.49	887.783				
1,700.00	1,697.47	809.00	803.25	5.89	3.05	115.41	-7,182.42	2,102.59	7,559.15	7,550.29	8.85	853.663				
1,800.00	1,795.62	809.00	803.25	6.28	3.05	115.02	-7,182.42	2,102.59	7,580.24	7,571.01	9.23	821.622				
1,900.00	1,893.06	854.02	846.87	6.69	3.29	114.72	-7,190.53	2,094.98	7,603.45	7,593.61	9.83	773.186				
2,000.00	1,989.64	898.00	889.29	7.13	3.51	114.39	-7,199.34	2,087.42	7,629.39	7,618.93	10.46	729.674				
2,100.00	2,085.27	898.00	889.29	7.61	3.51	113.86	-7,199.34	2,087.42	7,657.39	7,646.52	10.88	703.831				
2,200.00	2,179.82	898.00	889.29	8.12	3.51	113.27	-7,199.34	2,087.42	7,687.95	7,676.62	11.33	678.668				
2,300.00	2,273.17	944.87	934.32	8.67	3.77	112.83	-7,209.49	2,079.30	7,720.53	7,708.48	12.05	640.635				
2,400.00	2,365.21	969.73	958.15	9.27	3.91	112.25	-7,215.12	2,074.98	7,755.37	7,742.68	12.69	611.157				
2,500.00	2,455.84	1,011.00	997.61	9.92	4.14	111.71	-7,224.84	2,067.81	7,792.39	7,778.94	13.45	579.525				
2,580.62	2,527.80	1,011.00	997.61	10.49	4.14	111.08	-7,224.84	2,067.81	7,823.63	7,809.72	13.91	562.514				
2,600.00	2,544.97	1,011.00	997.61	10.63	4.14	111.08	-7,224.84	2,067.81	7,831.34	7,817.32	14.02	558.477				
2,700.00	2,633.58	1,011.00	997.61	11.37	4.14	111.08	-7,224.84	2,067.81	7,871.74	7,857.12	14.62	538.484				
2,800.00	2,722.19	1,058.85	1,043.23	12.13	4.42	111.32	-7,236.70	2,059.58	7,912.72	7,897.24	15.48	511.091				
2,900.00	2,810.80	1,100.00	1,082.35	12.91	4.67	111.53	-7,247.41	2,052.65	7,954.79	7,938.47	16.32	487.339				
3,000.00	2,899.41	1,100.00	1,082.35	13.71	4.67	111.53	-7,247.41	2,052.65	7,997.53	7,980.59	16.94	472.015				
3,100.00	2,988.02	1,100.00	1,082.35	14.52	4.67	111.53	-7,247.41	2,052.65	8,041.30	8,023.73	17.57	457.763				
3,200.00	3,076.63	1,147.92	1,127.81	15.34	4.96	111.77	-7,260.41	2,044.82	8,085.64	8,067.18	18.45	438.175				
3,300.00	3,165.24	1,187.00	1,164.81	16.16	5.19	111.96	-7,271.38	2,038.69	8,130.92	8,111.62	19.29	421.431				
3,400.00	3,253.85	1,187.00	1,164.81	17.00	5.19	111.96	-7,271.38	2,038.69	8,176.89	8,156.97	19.92	410.560				
3,500.00	3,342.46	1,217.08	1,193.22	17.84	5.38	112.11	-7,280.07	2,033.99	8,223.65	8,202.95	20.71	397.172				
3,600.00	3,431.07	1,239.37	1,214.22	18.69	5.52	112.22	-7,286.66	2,030.43	8,271.19	8,249.74	21.45	385.633				
3,700.00	3,519.68	1,275.00	1,247.66	19.55	5.75	112.39	-7,297.47	2,024.58	8,319.50	8,297.24	22.26	373.683				
3,800.00	3,608.29	1,275.00	1,247.66	20.40	5.75	112.39	-7,297.47	2,024.58	8,368.50	8,345.63	22.87	365.884				
3,900.00	3,696.90	1,321.36	1,291.04	21.26	6.05	112.62	-7,311.87	2,016.87	8,418.14	8,394.40	23.74	354.529				
4,000.00	3,785.51	1,362.00	1,329.01	22.13	6.32	112.82	-7,324.70	2,010.14	8,468.43	8,443.85	24.58	344.520				
4,100.00	3,874.12	1,402.36	1,366.67	23.00	6.59	113.02	-7,337.57	2,003.37	8,519.28	8,493.87	25.41	335.239				
4,200.00	3,962.73	1,449.00	1,410.10	23.87	6.91	113.25	-7,352.53	1,995.31	8,570.61	8,544.33	26.28	326.159				
4,300.00	4,051.34	1,449.00	1,410.10	24.74	6.91	113.25	-7,352.53	1,995.31	8,622.63	8,595.77	26.86	321.035				
4,400.00	4,139.95	1,493.39	1,451.30	25.62	7.22	113.47	-7,367.04	1,987.46	8,675.13	8,647.43	27.70	313.135				
4,500.00	4,228.56	1,537.00	1,491.60	26.49	7.53	113.69	-7,381.76	1,979.62	8,728.50	8,699.96	28.54	305.841				
4,600.00	4,317.17	1,537.00	1,491.60	27.37	7.53	113.69	-7,381.76	1,979.62	8,782.34	8,753.23	29.10	301.781				
4,700.00	4,405.78	1,537.00	1,491.60	28.25	7.53	113.69	-7,381.76	1,979.62	8,836.98	8,807.32	29.66	297.975				
4,800.00	4,494.39	1,567.62	1,519.77	29.13	7.75	113.84	-7,392.40	1,974.04	8,892.20	8,861.80	30.40	292.534				
4,900.00	4,583.00	1,583.41	1,534.24	30.02	7.87	113.92	-7,398.00	1,971.14	8,948.13	8,917.10	31.04	288.297				

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	1,624.00	1,571.29	30.90	8.17	114.12	-7,412.77	1,963.62	9,004.86	8,973.03	31.83	282.917		
5,100.00	4,760.22	1,624.00	1,571.29	31.79	8.17	114.12	-7,412.77	1,963.62	9,061.97	9,029.61	32.36	280.068		
5,200.00	4,848.83	1,624.00	1,571.29	32.67	8.17	114.12	-7,412.77	1,963.62	9,119.81	9,086.93	32.88	277.393		
5,300.00	4,937.44	1,653.24	1,597.86	33.56	8.39	114.26	-7,423.69	1,958.19	9,178.24	9,144.66	33.58	273.336		
5,400.00	5,026.05	1,674.34	1,617.00	34.45	8.55	114.37	-7,431.67	1,954.28	9,237.26	9,203.03	34.22	269.924		
5,500.00	5,114.66	1,711.00	1,650.17	35.34	8.84	114.55	-7,445.75	1,947.52	9,296.87	9,261.91	34.96	265.933		
5,600.00	5,203.27	1,723.03	1,661.04	36.23	8.93	114.60	-7,450.41	1,945.30	9,356.95	9,321.42	35.53	263.339		
5,700.00	5,291.88	1,772.10	1,705.30	37.12	9.32	114.84	-7,469.47	1,936.06	9,417.48	9,381.14	36.34	259.136		
5,800.00	5,380.50	2,199.39	2,093.22	38.01	12.67	116.88	-7,628.57	1,853.90	9,477.75	9,438.12	39.63	239.130		
5,900.00	5,469.11	2,235.00	2,125.78	38.90	12.94	117.05	-7,641.17	1,846.93	9,536.53	9,496.18	40.35	236.341		
6,000.00	5,557.72	2,235.00	2,125.78	39.79	12.94	117.05	-7,641.17	1,846.93	9,595.90	9,555.07	40.83	235.034		
6,100.00	5,646.33	2,267.80	2,155.69	40.68	13.21	117.20	-7,652.96	1,840.43	9,655.70	9,614.18	41.52	232.574		
6,200.00	5,734.94	2,282.64	2,169.18	41.58	13.32	117.27	-7,658.41	1,837.44	9,716.14	9,674.06	42.08	230.897		
6,300.00	5,823.55	2,322.00	2,204.76	42.47	13.64	117.45	-7,673.16	1,829.38	9,777.26	9,734.46	42.80	228.438		
6,400.00	5,912.16	2,322.00	2,204.76	43.36	13.64	117.45	-7,673.16	1,829.38	9,838.69	9,795.44	43.25	227.472		
6,500.00	6,000.77	2,379.45	2,256.61	44.26	14.10	117.72	-7,694.94	1,817.65	9,900.70	9,856.61	44.09	224.579		
6,600.00	6,089.38	2,641.51	2,494.35	45.15	16.21	118.90	-7,791.78	1,765.00	9,962.64	9,916.35	46.28	215.247		
8,800.00	7,730.00	8,433.00	8,062.15	54.33	43.56	107.13	-8,717.88	1,189.82	9,996.23	9,915.61	80.63	123.984		
8,900.00	7,730.00	8,433.00	8,062.15	53.82	43.56	107.13	-8,717.88	1,189.82	9,896.80	9,816.10	80.70	122.640		
9,000.00	7,730.00	8,433.00	8,062.15	53.33	43.56	107.13	-8,717.88	1,189.82	9,797.37	9,716.60	80.77	121.294		
9,100.00	7,730.00	8,433.00	8,062.15	52.87	43.56	107.13	-8,717.88	1,189.82	9,697.96	9,617.10	80.85	119.948		
9,200.00	7,730.00	8,433.00	8,062.15	52.44	43.56	107.13	-8,717.88	1,189.82	9,598.55	9,517.62	80.93	118.600		
9,300.00	7,730.00	8,433.00	8,062.15	52.03	43.56	107.13	-8,717.88	1,189.82	9,499.16	9,418.15	81.02	117.251		
9,400.00	7,730.00	8,433.00	8,062.15	51.65	43.56	107.13	-8,717.88	1,189.82	9,399.79	9,318.68	81.10	115.900		
9,500.00	7,730.00	8,390.39	8,019.55	51.29	43.48	104.88	-8,718.91	1,189.10	9,300.20	9,219.12	81.08	114.709		
9,600.00	7,730.00	8,389.19	8,018.36	50.95	43.48	104.81	-8,718.94	1,189.09	9,200.84	9,119.67	81.16	113.360		
9,700.00	7,730.00	8,387.98	8,017.15	50.64	43.48	104.75	-8,718.97	1,189.07	9,101.49	9,020.23	81.26	112.010		
9,800.00	7,730.00	8,386.75	8,015.92	50.35	43.48	104.68	-8,719.01	1,189.05	9,002.15	8,920.80	81.35	110.659		
9,900.00	7,730.00	8,385.50	8,014.67	50.09	43.47	104.62	-8,719.04	1,189.03	8,902.83	8,821.38	81.45	109.307		
10,000.00	7,730.00	8,384.24	8,013.41	49.86	43.47	104.55	-8,719.08	1,189.01	8,803.52	8,721.97	81.55	107.954		
10,100.00	7,730.00	8,382.96	8,012.13	49.65	43.47	104.48	-8,719.11	1,189.00	8,704.23	8,622.58	81.65	106.600		
10,200.00	7,730.00	8,381.67	8,010.84	49.48	43.47	104.41	-8,719.15	1,188.98	8,604.95	8,523.19	81.76	105.245		
10,300.00	7,730.00	8,380.35	8,009.52	49.35	43.46	104.34	-8,719.19	1,188.96	8,505.70	8,423.82	81.87	103.889		
10,400.00	7,730.00	8,379.02	8,008.19	49.27	43.46	104.27	-8,719.23	1,188.94	8,406.46	8,324.47	81.99	102.532		
10,500.00	7,730.00	8,377.67	8,006.84	49.26	43.46	104.20	-8,719.27	1,188.92	8,307.23	8,225.12	82.11	101.175		
10,600.00	7,730.00	8,376.30	8,005.47	49.32	43.46	104.12	-8,719.31	1,188.90	8,208.03	8,125.80	82.23	99.817		
10,700.00	7,730.00	8,374.91	8,004.08	49.51	43.45	104.05	-8,719.35	1,188.88	8,108.84	8,026.48	82.36	98.458		
10,800.00	7,730.00	8,373.50	8,002.68	49.83	43.45	103.97	-8,719.39	1,188.86	8,009.67	7,927.18	82.49	97.098		
10,900.00	7,730.00	8,372.07	8,001.25	50.31	43.45	103.90	-8,719.43	1,188.84	7,910.53	7,827.90	82.63	95.738		
11,000.00	7,730.00	8,370.62	7,999.80	50.96	43.45	103.82	-8,719.48	1,188.83	7,811.40	7,728.63	82.77	94.377		
11,100.00	7,730.00	8,369.15	7,998.33	51.75	43.44	103.74	-8,719.52	1,188.81	7,712.30	7,629.39	82.91	93.016		
11,200.00	7,730.00	8,367.66	7,996.84	52.66	43.44	103.66	-8,719.57	1,188.79	7,613.22	7,530.15	83.06	91.654		
11,300.00	7,730.00	8,366.14	7,995.32	53.67	43.44	103.58	-8,719.61	1,188.77	7,514.16	7,430.94	83.22	90.292		
11,400.00	7,730.00	8,364.61	7,993.79	54.75	43.44	103.49	-8,719.66	1,188.75	7,415.13	7,331.75	83.38	88.929		
11,500.00	7,730.00	8,363.05	7,992.23	55.89	43.43	103.41	-8,719.71	1,188.73	7,316.13	7,232.58	83.55	87.566		
11,600.00	7,730.00	8,361.46	7,990.65	57.07	43.43	103.32	-8,719.76	1,188.71	7,217.15	7,133.42	83.72	86.203		
11,700.00	7,730.00	8,359.86	7,989.04	58.30	43.43	103.24	-8,719.81	1,188.69	7,118.19	7,034.29	83.90	84.839		
11,800.00	7,730.00	8,358.22	7,987.41	59.55	43.42	103.15	-8,719.86	1,188.67	7,019.27	6,935.18	84.09	83.475		
11,900.00	7,730.00	8,356.57	7,985.75	60.84	43.42	103.06	-8,719.92	1,188.65	6,920.38	6,836.10	84.28	82.111		
12,000.00	7,730.00	8,354.88	7,984.07	62.15	43.42	102.97	-8,719.97	1,188.63	6,821.52	6,737.04	84.48	80.747		
12,100.00	7,730.00	8,353.17	7,982.36	63.49	43.41	102.88	-8,720.03	1,188.61	6,722.69	6,638.01	84.69	79.383		
12,200.00	7,730.00	8,351.44	7,980.63	64.85	43.41	102.78	-8,720.08	1,188.59	6,623.90	6,539.00	84.90	78.019		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
12,300.00	7,730.00	8,349.67	7,978.86	66.22	43.41	102.69	-8,720.14	1,188.57	6,525.14	6,440.02	85.12	76.655		
12,400.00	7,730.00	8,347.88	7,977.07	67.62	43.40	102.59	-8,720.20	1,188.55	6,426.42	6,341.07	85.35	75.291		
12,500.00	7,730.00	8,346.06	7,975.25	69.03	43.40	102.49	-8,720.26	1,188.52	6,327.74	6,242.15	85.59	73.927		
12,600.00	7,730.00	8,344.21	7,973.40	70.45	43.40	102.39	-8,720.33	1,188.50	6,229.10	6,143.26	85.84	72.564		
12,700.00	7,730.00	8,342.33	7,971.52	71.90	43.39	102.29	-8,720.39	1,188.48	6,130.50	6,044.40	86.10	71.201		
12,800.00	7,730.00	8,340.41	7,969.61	73.35	43.39	102.18	-8,720.46	1,188.46	6,031.95	5,945.58	86.37	69.838		
12,900.00	7,730.00	8,338.47	7,967.67	74.81	43.39	102.08	-8,720.52	1,188.44	5,933.45	5,846.80	86.65	68.476		
13,000.00	7,730.00	8,336.49	7,965.69	76.29	43.38	101.97	-8,720.59	1,188.42	5,834.99	5,748.05	86.94	67.115		
13,100.00	7,730.00	8,334.48	7,963.68	77.78	43.38	101.86	-8,720.67	1,188.40	5,736.59	5,649.35	87.24	65.754		
13,200.00	7,730.00	8,332.43	7,961.64	79.28	43.38	101.75	-8,720.74	1,188.38	5,638.24	5,550.69	87.56	64.394		
13,300.00	7,730.00	8,330.35	7,959.56	80.79	43.37	101.64	-8,720.81	1,188.36	5,539.95	5,452.07	87.89	63.035		
13,400.00	7,730.00	8,328.24	7,957.44	82.31	43.37	101.52	-8,720.89	1,188.34	5,441.73	5,353.50	88.23	61.677		
13,500.00	7,730.00	8,326.08	7,955.29	83.84	43.37	101.40	-8,720.97	1,188.32	5,343.56	5,254.97	88.59	60.320		
13,600.00	7,730.00	8,323.89	7,953.10	85.37	43.36	101.28	-8,721.05	1,188.30	5,245.46	5,156.51	88.96	58.964		
13,700.00	7,730.00	8,321.66	7,950.87	86.92	43.36	101.16	-8,721.14	1,188.28	5,147.44	5,058.09	89.35	57.610		
13,800.00	7,730.00	8,319.38	7,948.60	88.47	43.35	101.04	-8,721.22	1,188.26	5,049.49	4,959.73	89.76	56.258		
13,900.00	7,730.00	8,317.07	7,946.28	90.03	43.35	100.91	-8,721.31	1,188.24	4,951.62	4,861.44	90.18	54.907		
14,000.00	7,730.00	8,314.71	7,943.93	91.59	43.34	100.78	-8,721.40	1,188.22	4,853.84	4,763.21	90.63	53.557		
14,100.00	7,730.00	8,312.31	7,941.53	93.16	43.34	100.65	-8,721.49	1,188.19	4,756.14	4,665.05	91.10	52.210		
14,200.00	7,730.00	8,309.87	7,939.09	94.74	43.34	100.51	-8,721.59	1,188.17	4,658.55	4,566.96	91.59	50.866		
14,300.00	7,730.00	8,307.38	7,936.60	96.33	43.33	100.38	-8,721.69	1,188.15	4,561.05	4,468.95	92.10	49.523		
14,400.00	7,730.00	8,304.84	7,934.06	97.92	43.33	100.24	-8,721.79	1,188.13	4,463.66	4,371.02	92.64	48.183		
14,500.00	7,730.00	8,302.25	7,931.48	99.51	43.32	100.09	-8,721.89	1,188.11	4,366.39	4,273.19	93.21	46.847		
14,600.00	7,730.00	8,299.61	7,928.84	101.11	43.32	99.95	-8,722.00	1,188.10	4,269.24	4,175.44	93.80	45.513		
14,700.00	7,730.00	8,296.92	7,926.15	102.72	43.31	99.80	-8,722.11	1,188.08	4,172.23	4,077.80	94.43	44.183		
14,800.00	7,730.00	8,294.18	7,923.41	104.33	43.31	99.65	-8,722.22	1,188.06	4,075.35	3,980.26	95.09	42.856		
14,900.00	7,730.00	8,291.38	7,920.61	105.94	43.30	99.49	-8,722.34	1,188.04	3,978.63	3,882.84	95.79	41.534		
15,000.00	7,730.00	8,288.52	7,917.76	107.56	43.30	99.34	-8,722.46	1,188.02	3,882.07	3,785.54	96.53	40.216		
15,100.00	7,730.00	8,285.61	7,914.85	109.18	43.29	99.17	-8,722.59	1,188.00	3,785.69	3,688.38	97.31	38.903		
15,200.00	7,730.00	8,282.64	7,911.88	110.81	43.29	99.01	-8,722.72	1,187.98	3,689.49	3,591.36	98.14	37.595		
15,300.00	7,730.00	8,279.60	7,908.85	112.44	43.28	98.84	-8,722.85	1,187.97	3,593.50	3,494.49	99.01	36.293		
15,400.00	7,730.00	8,292.82	7,922.04	114.08	43.30	99.57	-8,722.15	1,188.00	3,497.67	3,397.63	100.04	34.962		
15,500.00	7,730.00	8,286.11	7,915.34	115.72	43.29	99.20	-8,722.48	1,187.97	3,402.16	3,301.16	101.01	33.682		
15,600.00	7,730.00	8,279.54	7,908.79	117.36	43.28	98.84	-8,722.80	1,187.95	3,306.91	3,204.87	102.04	32.408		
15,700.00	7,730.00	8,273.12	7,902.37	119.00	43.27	98.48	-8,723.11	1,187.92	3,211.93	3,108.79	103.14	31.142		
15,800.00	7,730.00	8,266.83	7,896.08	120.65	43.26	98.13	-8,723.41	1,187.90	3,117.26	3,012.95	104.31	29.883		
15,900.00	7,730.00	8,260.67	7,889.93	122.30	43.25	97.79	-8,723.70	1,187.88	3,022.92	2,917.35	105.57	28.634		
16,000.00	7,730.00	8,254.63	7,883.90	123.96	43.24	97.45	-8,723.99	1,187.85	2,928.95	2,822.03	106.92	27.394		
16,100.00	7,730.00	8,248.72	7,878.00	125.61	43.22	97.12	-8,724.26	1,187.83	2,835.38	2,727.01	108.36	26.165		
16,200.00	7,730.00	8,242.93	7,872.21	127.27	43.21	96.80	-8,724.53	1,187.81	2,742.25	2,632.34	109.92	24.948		
16,300.00	7,730.00	8,237.25	7,866.54	128.94	43.20	96.48	-8,724.78	1,187.79	2,649.62	2,538.03	111.59	23.745		
16,400.00	7,730.00	8,231.69	7,860.98	130.60	43.19	96.17	-8,725.04	1,187.76	2,557.53	2,444.14	113.39	22.555		
16,500.00	7,730.00	8,226.23	7,855.53	132.27	43.18	95.86	-8,725.28	1,187.74	2,466.04	2,350.71	115.33	21.382		
16,600.00	7,730.00	8,220.88	7,850.19	133.94	43.17	95.56	-8,725.51	1,187.72	2,375.24	2,257.80	117.43	20.227		
16,700.00	7,730.00	8,215.64	7,844.95	135.61	43.17	95.27	-8,725.74	1,187.70	2,285.19	2,165.48	119.70	19.090		
16,800.00	7,730.00	8,210.49	7,839.80	137.28	43.16	94.98	-8,725.97	1,187.68	2,195.99	2,073.82	122.17	17.975		
16,900.00	7,730.00	8,205.44	7,834.76	138.96	43.15	94.69	-8,726.18	1,187.66	2,107.75	1,982.91	124.84	16.884		
17,000.00	7,730.00	8,200.48	7,829.81	140.64	43.14	94.41	-8,726.39	1,187.64	2,020.59	1,892.85	127.74	15.818		
17,100.00	7,730.00	8,195.62	7,824.95	142.32	43.13	94.14	-8,726.60	1,187.62	1,934.67	1,803.77	130.90	14.780		
17,200.00	7,730.00	8,190.84	7,820.17	144.00	43.12	93.87	-8,726.80	1,187.60	1,850.15	1,715.82	134.33	13.773		
17,300.00	7,730.00	8,186.15	7,815.49	145.69	43.11	93.60	-8,726.99	1,187.59	1,767.24	1,629.18	138.06	12.800		
17,400.00	7,730.00	8,181.54	7,810.89	147.37	43.10	93.34	-8,727.18	1,187.57	1,686.17	1,544.05	142.12	11.864		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
17,500.00	7,730.00	8,177.02	7,806.37	149.06	43.10	93.09	-8,727.36	1,187.55	1,607.23	1,460.70	146.53	10.969	
17,600.00	7,730.00	8,172.58	7,801.93	150.75	43.09	92.83	-8,727.54	1,187.53	1,530.73	1,379.44	151.30	10.117	
17,700.00	7,730.00	8,168.21	7,797.56	152.44	43.08	92.59	-8,727.71	1,187.51	1,457.08	1,300.64	156.44	9.314	
17,800.00	7,730.00	8,163.92	7,793.28	154.13	43.07	92.34	-8,727.88	1,187.50	1,386.71	1,224.77	161.94	8.563	
17,900.00	7,730.00	8,159.71	7,789.07	155.83	43.07	92.10	-8,728.05	1,187.48	1,320.16	1,152.39	167.77	7.869	
18,000.00	7,730.00	8,155.56	7,784.92	157.52	43.06	91.87	-8,728.21	1,187.46	1,258.04	1,084.17	173.87	7.235	
18,100.00	7,730.00	8,151.49	7,780.85	159.22	43.05	91.64	-8,728.37	1,187.45	1,201.02	1,020.90	180.13	6.668	
18,200.00	7,730.00	8,147.48	7,776.85	160.92	43.04	91.41	-8,728.52	1,187.43	1,149.88	963.51	186.37	6.170	
18,300.00	7,730.00	8,143.54	7,772.91	162.62	43.04	91.19	-8,728.67	1,187.42	1,105.42	913.04	192.38	5.746	
18,400.00	7,730.00	8,139.67	7,769.04	164.32	43.03	90.97	-8,728.81	1,187.40	1,068.49	870.62	197.87	5.400	
18,426.22	7,730.00	8,138.66	7,768.04	164.76	43.03	90.91	-8,728.85	1,187.40	1,060.15	860.97	199.18	5.323 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	41.14	41.14	0.00	0.06	163.17	-7,154.46	2,163.69	7,474.50					
100.00	100.00	114.24	114.24	0.13	0.25	163.17	-7,154.22	2,163.80	7,474.29	7,473.91	0.38	N/A		
200.00	200.00	166.00	166.00	0.49	0.43	163.18	-7,154.58	2,163.47	7,474.74	7,473.82	0.92	8,106.502		
300.00	300.00	211.44	211.43	0.85	0.59	163.18	-7,155.29	2,162.94	7,475.87	7,474.43	1.44	5,188.492		
400.00	400.00	257.00	256.97	1.21	0.75	163.19	-7,156.35	2,162.28	7,477.70	7,475.74	1.96	3,816.348		
500.00	500.00	299.36	299.30	1.57	0.90	163.20	-7,157.74	2,161.39	7,480.27	7,477.80	2.47	3,028.004		
600.00	600.00	349.00	348.86	1.93	1.08	163.21	-7,160.01	2,159.83	7,483.67	7,480.66	3.01	2,488.976		
700.00	700.00	379.53	379.31	2.29	1.19	163.23	-7,161.74	2,158.60	7,487.83	7,484.35	3.48	2,153.640		
800.00	800.00	440.00	439.57	2.64	1.42	163.26	-7,165.90	2,155.64	7,492.87	7,488.82	4.06	1,846.873		
900.00	900.00	440.00	439.57	3.00	1.42	163.26	-7,165.90	2,155.64	7,498.64	7,494.23	4.41	1,698.846		
1,000.00	1,000.00	487.35	486.69	3.36	1.61	163.29	-7,169.85	2,153.07	7,505.27	7,500.32	4.95	1,516.781		
1,100.00	1,100.00	533.00	532.05	3.72	1.78	163.31	-7,174.29	2,150.62	7,512.90	7,507.42	5.48	1,372.019		
1,200.00	1,200.00	533.00	532.05	4.08	1.78	163.31	-7,174.29	2,150.62	7,521.41	7,515.58	5.83	1,290.187		
1,300.00	1,299.98	593.01	591.57	4.43	2.03	116.06	-7,181.02	2,147.01	7,531.39	7,524.97	6.41	1,174.225		
1,400.00	1,399.84	625.00	623.23	4.79	2.16	115.87	-7,185.03	2,144.75	7,543.79	7,536.90	6.89	1,095.257		
1,500.00	1,499.45	676.62	674.20	5.15	2.38	115.68	-7,192.04	2,140.57	7,558.44	7,550.99	7.45	1,014.762		
1,600.00	1,598.70	717.00	713.96	5.51	2.55	115.44	-7,197.97	2,136.81	7,575.32	7,567.35	7.97	950.734		
1,700.00	1,697.47	752.57	748.90	5.89	2.72	115.17	-7,203.55	2,133.18	7,594.47	7,585.99	8.48	895.382		
1,800.00	1,795.62	809.00	804.14	6.28	2.98	114.91	-7,213.20	2,126.88	7,616.05	7,606.96	9.10	837.213		
1,900.00	1,893.06	809.00	804.14	6.69	2.98	114.47	-7,213.20	2,126.88	7,639.72	7,630.24	9.48	805.685		
2,000.00	1,989.64	847.45	841.64	7.13	3.17	114.10	-7,220.32	2,122.23	7,665.73	7,655.67	10.06	761.951		
2,100.00	2,085.27	898.00	890.75	7.61	3.42	113.73	-7,230.35	2,115.70	7,694.07	7,683.35	10.72	717.953		
2,200.00	2,179.82	898.00	890.75	8.12	3.42	113.15	-7,230.35	2,115.70	7,724.45	7,713.29	11.17	691.751		
2,300.00	2,273.17	898.00	890.75	8.67	3.42	112.50	-7,230.35	2,115.70	7,757.31	7,745.67	11.64	666.182		
2,400.00	2,365.21	944.10	935.36	9.27	3.66	112.00	-7,240.24	2,109.59	7,792.01	7,779.63	12.37	629.658		
2,500.00	2,455.84	986.00	975.76	9.92	3.88	111.45	-7,249.94	2,104.13	7,829.17	7,816.05	13.12	596.758		
2,580.62	2,527.80	986.00	975.76	10.49	3.88	110.82	-7,249.94	2,104.13	7,860.42	7,846.84	13.58	578.681		
2,600.00	2,544.97	986.00	975.76	10.63	3.88	110.82	-7,249.94	2,104.13	7,868.13	7,854.43	13.70	574.396		
2,700.00	2,633.58	1,003.46	992.55	11.37	3.98	110.90	-7,254.16	2,101.90	7,908.47	7,894.09	14.38	549.899		
2,800.00	2,722.19	1,036.00	1,023.83	12.13	4.16	111.06	-7,262.20	2,097.92	7,949.68	7,934.53	15.15	524.674		
2,900.00	2,810.80	1,036.00	1,023.83	12.91	4.16	111.06	-7,262.20	2,097.92	7,991.71	7,975.94	15.77	506.788		
3,000.00	2,899.41	1,073.24	1,059.60	13.71	4.37	111.23	-7,271.67	2,093.74	8,034.50	8,017.93	16.57	484.802		
3,100.00	2,988.02	1,096.19	1,081.63	14.52	4.49	111.33	-7,277.64	2,091.41	8,078.13	8,060.82	17.31	466.621		
3,200.00	3,076.63	1,143.00	1,126.55	15.34	4.76	111.54	-7,290.17	2,087.24	8,122.66	8,104.48	18.17	446.936		
3,300.00	3,165.24	1,143.00	1,126.55	16.16	4.76	111.54	-7,290.17	2,087.24	8,167.74	8,148.94	18.80	434.402		
3,400.00	3,253.85	1,196.34	1,177.68	17.00	5.06	111.78	-7,304.74	2,083.00	8,213.56	8,193.87	19.69	417.108		
3,500.00	3,342.46	1,273.16	1,251.31	17.84	5.50	112.11	-7,325.83	2,077.07	8,259.81	8,239.11	20.70	399.055		
3,600.00	3,431.07	1,462.55	1,433.17	18.69	6.58	112.93	-7,376.52	2,061.95	8,305.87	8,283.60	22.27	372.982		
3,700.00	3,519.68	1,531.17	1,499.16	19.55	6.98	113.22	-7,394.38	2,056.09	8,351.54	8,328.30	23.24	359.357		
3,800.00	3,608.29	1,580.00	1,546.04	20.40	7.26	113.43	-7,407.29	2,051.65	8,397.73	8,373.62	24.11	348.297		
3,900.00	3,696.90	1,633.30	1,597.15	21.26	7.58	113.66	-7,421.56	2,046.53	8,444.42	8,419.41	25.01	337.706		
4,000.00	3,785.51	1,705.28	1,666.06	22.13	8.00	113.98	-7,440.98	2,039.20	8,491.50	8,465.51	25.99	326.660		
4,100.00	3,874.12	1,786.15	1,743.48	23.00	8.49	114.32	-7,462.74	2,030.64	8,538.79	8,511.76	27.03	315.893		
4,200.00	3,962.73	1,857.54	1,811.80	23.87	8.92	114.63	-7,481.98	2,022.95	8,586.37	8,558.35	28.01	306.498		
4,300.00	4,051.34	1,946.25	1,896.74	24.74	9.45	115.01	-7,505.77	2,013.55	8,634.16	8,605.07	29.09	296.844		
4,400.00	4,139.95	1,989.57	1,938.23	25.62	9.71	115.19	-7,517.44	2,009.19	8,682.32	8,652.41	29.91	290.249		
4,500.00	4,228.56	2,210.92	2,151.01	26.49	11.02	116.09	-7,574.75	1,988.43	8,729.72	8,698.06	31.66	275.711		
4,600.00	4,317.17	2,250.63	2,189.12	27.37	11.25	116.25	-7,584.94	1,983.88	8,777.39	8,744.92	32.47	270.339		
4,700.00	4,405.78	2,405.49	2,337.60	28.25	12.18	116.90	-7,624.17	1,964.03	8,824.83	8,790.95	33.89	260.423		
4,800.00	4,494.39	2,453.00	2,383.19	29.13	12.46	117.10	-7,636.23	1,958.22	8,872.73	8,838.00	34.73	255.498		
4,900.00	4,583.00	4,900.00	2,522.84	30.02	26.68	117.67	-7,672.56	1,942.35	8,920.92	8,874.47	46.45	192.073		
5,000.00	4,671.61	2,663.45	2,585.73	30.90	13.70	117.93	-7,688.39	1,934.91	8,968.61	8,931.61	37.00	242.403		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	2,685.63	2,607.04	31.79	13.83	118.02	-7,693.91	1,932.22	9,016.96	8,979.27	37.69	239.236		
5,200.00	4,848.83	2,714.00	2,634.25	32.67	14.00	118.13	-7,701.14	1,928.71	9,065.99	9,027.58	38.41	236.035		
5,300.00	4,937.44	2,798.51	2,715.29	33.56	14.51	118.47	-7,722.84	1,918.57	9,115.46	9,076.04	39.43	231.198		
5,400.00	5,026.05	5,400.00	2,884.36	34.45	29.71	119.15	-7,766.26	1,898.60	9,164.26	9,112.41	51.85	176.745		
5,500.00	5,114.66	3,008.89	2,917.77	35.34	15.74	119.28	-7,774.74	1,894.77	9,213.37	9,171.70	41.66	221.148		
5,600.00	5,203.27	3,035.23	2,943.13	36.23	15.90	119.38	-7,781.32	1,892.04	9,263.09	9,220.74	42.35	218.725		
5,700.00	5,291.88	3,064.00	2,970.81	37.12	16.06	119.48	-7,788.65	1,889.25	9,313.41	9,270.36	43.05	216.356		
5,800.00	5,380.50	3,128.54	3,032.88	38.01	16.44	119.72	-7,805.28	1,883.23	9,364.17	9,320.24	43.93	213.171		
5,900.00	5,469.11	3,196.73	3,098.44	38.90	16.85	119.97	-7,822.87	1,876.72	9,415.17	9,370.35	44.83	210.034		
6,000.00	5,557.72	3,260.29	3,159.46	39.79	17.23	120.20	-7,839.33	1,870.01	9,466.44	9,420.75	45.70	207.154		
6,100.00	5,646.33	3,319.43	3,216.21	40.68	17.58	120.42	-7,854.73	1,863.66	9,518.02	9,471.48	46.54	204.504		
6,200.00	5,734.94	3,376.07	3,270.55	41.58	17.92	120.62	-7,869.56	1,857.69	9,569.92	9,522.56	47.37	202.034		
6,300.00	5,823.55	3,621.03	3,506.08	42.47	19.37	121.49	-7,932.36	1,833.60	9,622.03	9,572.82	49.21	195.540		
6,400.00	5,912.16	3,651.77	3,535.73	43.36	19.55	121.59	-7,939.97	1,830.74	9,673.24	9,623.36	49.89	193.909		
6,500.00	6,000.77	3,687.80	3,570.44	44.26	19.76	121.72	-7,949.05	1,827.45	9,724.97	9,674.39	50.59	192.243		
6,600.00	6,089.38	3,740.86	3,621.53	45.15	20.07	121.90	-7,962.56	1,822.73	9,777.10	9,725.73	51.38	190.306		
6,700.00	6,177.99	6,700.00	3,711.92	46.05	37.21	122.21	-7,986.41	1,815.00	9,829.37	9,764.86	64.51	152.360		
6,800.00	6,266.60	3,891.55	3,766.77	46.94	20.94	122.39	-8,000.82	1,810.52	9,881.77	9,828.59	53.18	185.816		
6,900.00	6,355.21	6,682.36	6,514.63	47.84	32.21	129.96	-8,338.52	1,668.96	9,923.82	9,858.40	65.42	151.694		
7,000.00	6,443.82	6,764.08	6,596.34	48.74	32.39	130.13	-8,337.43	1,669.59	9,954.35	9,888.07	66.29	150.171		
7,100.00	6,532.43	6,848.61	6,680.86	49.63	32.58	130.30	-8,336.34	1,670.45	9,985.04	9,917.88	67.16	148.677		
8,350.00	7,610.24	7,637.79	7,469.94	56.45	34.51	29.56	-8,336.09	1,680.16	9,989.99	9,913.87	76.12	131.247		
8,400.00	7,638.06	7,665.49	7,497.63	56.28	34.59	28.61	-8,336.57	1,680.72	9,950.86	9,874.56	76.30	130.419		
8,450.00	7,662.52	7,689.97	7,522.10	56.09	34.65	28.11	-8,337.00	1,681.23	9,909.20	9,832.74	76.46	129.605		
8,500.00	7,683.41	7,711.04	7,543.16	55.88	34.71	28.10	-8,337.37	1,681.66	9,865.30	9,788.71	76.59	128.806		
8,550.00	7,700.59	7,728.53	7,560.65	55.64	34.76	28.10	-8,337.67	1,682.03	9,819.50	9,742.80	76.70	128.026		
8,600.00	7,713.91	7,742.31	7,574.42	55.39	34.80	30.31	-8,337.92	1,682.32	9,772.15	9,695.37	76.79	127.266		
8,650.00	7,723.29	7,752.27	7,584.37	55.14	34.82	33.90	-8,338.09	1,682.53	9,723.60	9,646.75	76.85	126.528		
8,700.00	7,728.64	7,758.33	7,590.43	54.87	34.84	43.50	-8,338.20	1,682.66	9,674.22	9,597.33	76.89	125.813		
8,740.83	7,730.00	7,760.35	7,592.45	54.65	34.85	72.78	-8,338.24	1,682.70	9,633.54	9,556.63	76.91	125.249		
8,800.00	7,730.00	7,761.36	7,593.46	54.33	34.85	72.89	-8,338.26	1,682.72	9,574.46	9,497.53	76.94	124.446		
8,900.00	7,730.00	7,763.07	7,595.17	53.82	34.85	73.06	-8,338.29	1,682.76	9,474.62	9,397.65	76.97	123.088		
9,000.00	7,730.00	7,764.79	7,596.89	53.33	34.86	73.23	-8,338.32	1,682.79	9,374.79	9,297.77	77.01	121.729		
9,100.00	7,730.00	7,766.50	7,598.61	52.87	34.86	73.41	-8,338.35	1,682.83	9,274.95	9,197.90	77.05	120.369		
9,200.00	7,730.00	7,768.22	7,600.32	52.44	34.87	73.58	-8,338.38	1,682.87	9,175.12	9,098.03	77.10	119.008		
9,300.00	7,730.00	7,769.94	7,602.04	52.03	34.87	73.76	-8,338.41	1,682.90	9,075.30	8,998.15	77.14	117.646		
9,400.00	7,730.00	7,771.66	7,603.76	51.65	34.88	73.93	-8,338.44	1,682.94	8,975.47	8,898.29	77.19	116.283		
9,500.00	7,730.00	7,773.38	7,605.48	51.29	34.88	74.11	-8,338.47	1,682.98	8,875.65	8,798.42	77.23	114.919		
9,600.00	7,730.00	7,775.11	7,607.21	50.95	34.89	74.28	-8,338.50	1,683.01	8,775.84	8,698.55	77.28	113.554		
9,700.00	7,730.00	7,776.83	7,608.93	50.64	34.89	74.46	-8,338.53	1,683.05	8,676.02	8,598.69	77.33	112.188		
9,800.00	7,730.00	7,805.65	7,637.74	50.35	34.97	77.47	-8,339.00	1,683.65	8,576.21	8,498.72	77.49	110.676		
9,900.00	7,730.00	7,850.40	7,682.47	50.09	35.09	82.28	-8,339.54	1,684.51	8,476.40	8,398.70	77.71	109.083		
10,000.00	7,730.00	7,871.47	7,703.54	49.86	35.14	84.60	-8,339.71	1,684.89	8,376.59	8,298.75	77.84	107.616		
10,100.00	7,730.00	7,883.72	7,715.79	49.65	35.17	85.96	-8,339.79	1,685.10	8,276.78	8,198.84	77.94	106.195		
10,200.00	7,730.00	7,891.74	7,723.81	49.48	35.19	86.85	-8,339.83	1,685.23	8,176.97	8,098.95	78.03	104.796		
10,300.00	7,730.00	7,897.39	7,729.46	49.35	35.21	87.48	-8,339.85	1,685.32	8,077.17	7,999.06	78.11	103.408		
10,400.00	7,730.00	7,901.59	7,733.66	49.27	35.22	87.95	-8,339.87	1,685.39	7,977.38	7,899.19	78.19	102.027		
10,500.00	7,730.00	7,904.83	7,736.90	49.26	35.23	88.31	-8,339.88	1,685.44	7,877.59	7,799.32	78.27	100.650		
10,600.00	7,730.00	7,907.41	7,739.48	49.32	35.24	88.60	-8,339.88	1,685.48	7,777.80	7,699.46	78.35	99.276		
10,700.00	7,730.00	7,909.51	7,741.58	49.51	35.24	88.83	-8,339.89	1,685.51	7,678.02	7,599.60	78.42	97.904		
10,800.00	7,730.00	7,911.26	7,743.32	49.83	35.25	89.03	-8,339.89	1,685.54	7,578.25	7,499.74	78.50	96.533		
10,900.00	7,730.00	7,912.73	7,744.79	50.31	35.25	89.19	-8,339.90	1,685.56	7,478.48	7,399.89	78.59	95.163		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
11,000.00	7,730.00	7,913.98	7,746.05	50.96	35.25	89.33	-8,339.90	1,685.58	7,378.72	7,300.05	78.67	93.793		
11,100.00	7,730.00	7,915.07	7,747.14	51.75	35.26	89.46	-8,339.90	1,685.60	7,278.96	7,200.20	78.76	92.424		
11,200.00	7,730.00	7,916.02	7,748.09	52.66	35.26	89.56	-8,339.90	1,685.62	7,179.21	7,100.37	78.84	91.055		
11,300.00	7,730.00	7,916.86	7,748.92	53.67	35.26	89.66	-8,339.90	1,685.63	7,079.47	7,000.53	78.94	89.686		
11,400.00	7,730.00	7,917.60	7,749.66	54.75	35.26	89.74	-8,339.91	1,685.64	6,979.74	6,900.71	79.03	88.318		
11,500.00	7,730.00	7,918.26	7,750.33	55.89	35.27	89.81	-8,339.91	1,685.65	6,880.01	6,800.88	79.13	86.949		
11,600.00	7,730.00	7,918.86	7,750.92	57.07	35.27	89.88	-8,339.91	1,685.66	6,780.29	6,701.06	79.23	85.580		
11,700.00	7,730.00	7,919.40	7,751.46	58.30	35.27	89.94	-8,339.91	1,685.67	6,680.58	6,601.25	79.33	84.211		
11,800.00	7,730.00	7,919.89	7,751.95	59.55	35.27	89.99	-8,339.91	1,685.67	6,580.88	6,501.44	79.44	82.843		
11,900.00	7,730.00	7,920.33	7,752.40	60.84	35.27	90.04	-8,339.91	1,685.68	6,481.19	6,401.64	79.55	81.474		
12,000.00	7,730.00	7,920.74	7,752.81	62.15	35.27	90.09	-8,339.91	1,685.69	6,381.50	6,301.84	79.66	80.105		
12,100.00	7,730.00	7,921.12	7,753.18	63.49	35.27	90.13	-8,339.91	1,685.69	6,281.83	6,202.05	79.78	78.736		
12,200.00	7,730.00	7,921.47	7,753.53	64.85	35.27	90.17	-8,339.91	1,685.70	6,182.17	6,102.26	79.91	77.368		
12,300.00	7,730.00	7,921.79	7,753.85	66.22	35.27	90.21	-8,339.91	1,685.70	6,082.52	6,002.48	80.03	75.999		
12,400.00	7,730.00	7,922.08	7,754.15	67.62	35.28	90.24	-8,339.91	1,685.71	5,982.88	5,902.71	80.17	74.630		
12,500.00	7,730.00	7,922.36	7,754.43	69.03	35.28	90.27	-8,339.91	1,685.71	5,883.25	5,802.95	80.30	73.261		
12,600.00	7,730.00	7,922.62	7,754.68	70.45	35.28	90.30	-8,339.91	1,685.72	5,783.64	5,703.19	80.45	71.893		
12,700.00	7,730.00	7,922.86	7,754.93	71.90	35.28	90.33	-8,339.91	1,685.72	5,684.04	5,603.44	80.60	70.524		
12,800.00	7,730.00	7,923.09	7,755.15	73.35	35.28	90.35	-8,339.91	1,685.72	5,584.45	5,503.70	80.75	69.156		
12,900.00	7,730.00	7,923.30	7,755.36	74.81	35.28	90.38	-8,339.91	1,685.73	5,484.88	5,403.97	80.91	67.788		
13,000.00	7,730.00	7,923.50	7,755.56	76.29	35.28	90.40	-8,339.91	1,685.73	5,385.32	5,304.24	81.08	66.420		
13,100.00	7,730.00	7,923.69	7,755.75	77.78	35.28	90.42	-8,339.91	1,685.73	5,285.78	5,204.53	81.25	65.052		
13,200.00	7,730.00	7,923.87	7,755.93	79.28	35.28	90.44	-8,339.91	1,685.73	5,186.26	5,104.83	81.44	63.685		
13,300.00	7,730.00	7,924.04	7,756.10	80.79	35.28	90.46	-8,339.91	1,685.74	5,086.76	5,005.14	81.63	62.318		
13,400.00	7,730.00	7,924.20	7,756.26	82.31	35.28	90.48	-8,339.91	1,685.74	4,987.28	4,905.46	81.82	60.951		
13,500.00	7,730.00	7,924.35	7,756.41	83.84	35.28	90.49	-8,339.91	1,685.74	4,887.82	4,805.79	82.03	59.585		
13,600.00	7,730.00	7,924.49	7,756.55	85.37	35.28	90.51	-8,339.91	1,685.74	4,788.38	4,706.13	82.25	58.219		
13,700.00	7,730.00	7,924.63	7,756.69	86.92	35.28	90.52	-8,339.91	1,685.75	4,688.96	4,606.49	82.47	56.854		
13,800.00	7,730.00	7,924.76	7,756.82	88.47	35.28	90.54	-8,339.91	1,685.75	4,589.58	4,506.86	82.71	55.489		
13,900.00	7,730.00	7,924.88	7,756.94	90.03	35.28	90.55	-8,339.91	1,685.75	4,490.21	4,407.25	82.96	54.125		
14,000.00	7,730.00	7,925.00	7,757.06	91.59	35.28	90.57	-8,339.91	1,685.75	4,390.88	4,307.66	83.22	52.762		
14,100.00	7,730.00	7,925.11	7,757.17	93.16	35.28	90.58	-8,339.91	1,685.75	4,291.58	4,208.08	83.49	51.399		
14,200.00	7,730.00	7,925.22	7,757.28	94.74	35.28	90.59	-8,339.91	1,685.75	4,192.31	4,108.52	83.78	50.038		
14,300.00	7,730.00	7,925.32	7,757.39	96.33	35.28	90.60	-8,339.91	1,685.76	4,093.07	4,008.99	84.09	48.677		
14,400.00	7,730.00	7,925.42	7,757.49	97.92	35.28	90.61	-8,339.91	1,685.76	3,993.88	3,909.47	84.41	47.317		
14,500.00	7,730.00	7,925.52	7,757.58	99.51	35.28	90.62	-8,339.91	1,685.76	3,894.72	3,809.98	84.75	45.958		
14,600.00	7,730.00	7,925.61	7,757.67	101.11	35.28	90.63	-8,339.91	1,685.76	3,795.62	3,710.51	85.10	44.600		
14,700.00	7,730.00	7,925.70	7,757.76	102.72	35.28	90.64	-8,339.91	1,685.76	3,696.55	3,611.07	85.48	43.244		
14,800.00	7,730.00	7,925.78	7,757.84	104.33	35.29	90.65	-8,339.91	1,685.76	3,597.54	3,511.66	85.88	41.889		
14,900.00	7,730.00	7,925.86	7,757.92	105.94	35.29	90.66	-8,339.91	1,685.76	3,498.59	3,412.28	86.31	40.535		
15,000.00	7,730.00	7,925.94	7,758.00	107.56	35.29	90.67	-8,339.91	1,685.77	3,399.70	3,312.93	86.76	39.184		
15,100.00	7,730.00	7,926.01	7,758.08	109.18	35.29	90.68	-8,339.91	1,685.77	3,300.87	3,213.62	87.25	37.834		
15,200.00	7,730.00	7,926.09	7,758.15	110.81	35.29	90.69	-8,339.91	1,685.77	3,202.12	3,114.36	87.76	36.486		
15,300.00	7,730.00	7,926.16	7,758.22	112.44	35.29	90.70	-8,339.91	1,685.77	3,103.45	3,015.13	88.31	35.141		
15,400.00	7,730.00	7,926.22	7,758.29	114.08	35.29	90.70	-8,339.91	1,685.77	3,004.86	2,915.95	88.91	33.798		
15,500.00	7,730.00	7,926.29	7,758.35	115.72	35.29	90.71	-8,339.91	1,685.77	2,906.37	2,816.83	89.54	32.458		
15,600.00	7,730.00	7,926.35	7,758.42	117.36	35.29	90.72	-8,339.91	1,685.77	2,807.99	2,717.76	90.23	31.121		
15,700.00	7,730.00	7,926.41	7,758.48	119.00	35.29	90.72	-8,339.91	1,685.77	2,709.73	2,618.76	90.97	29.788		
15,800.00	7,730.00	7,926.47	7,758.54	120.65	35.29	90.73	-8,339.91	1,685.77	2,611.60	2,519.83	91.77	28.458		
15,900.00	7,730.00	7,926.53	7,758.59	122.30	35.29	90.74	-8,339.91	1,685.77	2,513.61	2,420.97	92.64	27.134		
16,000.00	7,730.00	7,926.58	7,758.65	123.96	35.29	90.74	-8,339.91	1,685.77	2,415.79	2,322.21	93.58	25.814		
16,100.00	7,730.00	7,926.64	7,758.70	125.61	35.29	90.75	-8,339.91	1,685.78	2,318.16	2,223.54	94.62	24.500		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
16,200.00	7,730.00	7,926.69	7,758.75	127.27	35.29	90.76	-8,339.91	1,685.78	2,220.74	2,124.99	95.75	23.193		
16,300.00	7,730.00	7,926.74	7,758.80	128.94	35.29	90.76	-8,339.91	1,685.78	2,123.56	2,026.56	97.00	21.893		
16,400.00	7,730.00	7,926.79	7,758.85	130.60	35.29	90.77	-8,339.91	1,685.78	2,026.65	1,928.27	98.37	20.602		
16,500.00	7,730.00	7,926.84	7,758.90	132.27	35.29	90.77	-8,339.91	1,685.78	1,930.05	1,830.16	99.90	19.320		
16,600.00	7,730.00	7,926.88	7,758.95	133.94	35.29	90.78	-8,339.91	1,685.78	1,833.83	1,732.23	101.59	18.051		
16,700.00	7,730.00	7,926.93	7,758.99	135.61	35.29	90.78	-8,339.91	1,685.78	1,738.03	1,634.54	103.49	16.794		
16,800.00	7,730.00	7,926.97	7,759.03	137.28	35.29	90.79	-8,339.91	1,685.78	1,642.72	1,537.11	105.62	15.553		
16,900.00	7,730.00	7,927.01	7,759.08	138.96	35.29	90.79	-8,339.91	1,685.78	1,548.02	1,439.99	108.02	14.330		
17,000.00	7,730.00	7,927.06	7,759.12	140.64	35.29	90.80	-8,339.91	1,685.78	1,454.02	1,343.27	110.75	13.129		
17,100.00	7,730.00	7,927.10	7,759.16	142.32	35.29	90.80	-8,339.91	1,685.78	1,360.87	1,247.01	113.86	11.952		
17,200.00	7,730.00	7,927.13	7,759.20	144.00	35.29	90.81	-8,339.91	1,685.78	1,268.77	1,151.35	117.43	10.805		
17,300.00	7,730.00	7,927.17	7,759.24	145.69	35.29	90.81	-8,339.91	1,685.78	1,177.96	1,056.43	121.53	9.692		
17,400.00	7,730.00	7,927.21	7,759.27	147.37	35.29	90.81	-8,339.91	1,685.78	1,088.77	962.47	126.29	8.621		
17,500.00	7,730.00	7,927.25	7,759.31	149.06	35.29	90.82	-8,339.91	1,685.78	1,001.61	869.79	131.82	7.598		
17,600.00	7,730.00	7,927.28	7,759.34	150.75	35.29	90.82	-8,339.91	1,685.79	917.08	778.83	138.25	6.633		
17,700.00	7,730.00	7,927.32	7,759.38	152.44	35.29	90.83	-8,339.91	1,685.79	835.97	690.26	145.71	5.737		
17,800.00	7,730.00	7,927.35	7,759.41	154.13	35.29	90.83	-8,339.91	1,685.79	759.38	605.11	154.27	4.922		
17,900.00	7,730.00	7,927.38	7,759.44	155.83	35.29	90.83	-8,339.91	1,685.79	688.82	524.94	163.88	4.203		
18,000.00	7,730.00	7,927.41	7,759.48	157.52	35.29	90.84	-8,339.91	1,685.79	626.32	452.17	174.15	3.596		
18,100.00	7,730.00	7,927.45	7,759.51	159.22	35.29	90.84	-8,339.91	1,685.79	574.53	390.35	184.18	3.119		
18,200.00	7,730.00	7,927.48	7,759.54	160.92	35.29	90.84	-8,339.91	1,685.79	536.56	344.24	192.33	2.790		
18,300.00	7,730.00	7,927.51	7,759.57	162.62	35.29	90.85	-8,339.91	1,685.79	515.47	319.03	196.44	2.624		
18,360.94	7,730.00	7,927.52	7,759.59	163.65	35.29	90.85	-8,339.91	1,685.79	511.86	315.64	196.21	2.609	CC, ES, SF	
18,400.00	7,730.00	7,927.53	7,759.60	164.32	35.29	90.85	-8,339.91	1,685.79	513.35	318.46	194.88	2.634		
18,426.22	7,730.00	7,927.54	7,759.60	164.76	35.29	90.85	-8,339.91	1,685.79	516.00	322.52	193.48	2.667		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	20.20	20.20	0.00	0.03	163.02	-7,111.17	2,171.77	7,435.42					
100.00	100.00	112.03	112.03	0.13	0.18	163.01	-7,111.15	2,172.09	7,435.49	7,435.18	0.32	N/A		
200.00	200.00	183.41	183.40	0.49	0.40	163.01	-7,111.00	2,173.28	7,435.79	7,434.90	0.89	8,368.325		
300.00	300.00	226.00	225.93	0.85	0.56	162.99	-7,110.68	2,175.32	7,436.60	7,435.19	1.40	5,306.364		
400.00	400.00	263.29	263.13	1.21	0.70	162.97	-7,110.45	2,177.93	7,438.22	7,436.32	1.90	3,913.812		
500.00	500.00	318.00	317.60	1.57	0.91	162.93	-7,110.65	2,183.05	7,441.02	7,438.56	2.46	3,019.472		
600.00	600.00	318.00	317.60	1.93	0.91	162.93	-7,110.65	2,183.05	7,444.44	7,441.62	2.82	2,636.624		
700.00	700.00	386.68	385.84	2.29	1.17	162.88	-7,111.36	2,190.70	7,448.73	7,445.28	3.45	2,159.554		
800.00	800.00	929.96	917.58	2.64	3.73	162.06	-7,086.03	2,294.55	7,448.89	7,442.52	6.36	1,170.462		
900.00	900.00	981.16	966.85	3.00	4.02	161.95	-7,081.25	2,307.65	7,447.91	7,440.90	7.01	1,062.074		
988.92	988.92	1,027.00	1,010.88	3.32	4.28	161.85	-7,077.20	2,319.73	7,447.68	7,440.09	7.59	980.852		
1,000.00	1,000.00	1,027.00	1,010.88	3.36	4.28	161.85	-7,077.20	2,319.73	7,447.69	7,440.05	7.63	975.740		
1,100.00	1,100.00	1,102.11	1,083.07	3.72	4.72	161.69	-7,070.96	2,339.50	7,448.03	7,439.61	8.42	884.112		
1,200.00	1,200.00	1,195.60	1,173.21	4.08	5.25	161.50	-7,063.65	2,363.23	7,448.65	7,439.33	9.32	799.633		
1,300.00	1,299.98	1,256.70	1,232.06	4.43	5.61	114.23	-7,058.92	2,378.94	7,450.27	7,440.24	10.03	742.876		
1,400.00	1,399.84	1,351.93	1,323.08	4.79	6.18	113.99	-7,051.22	2,405.84	7,453.85	7,442.89	10.96	680.287		
1,500.00	1,499.45	1,450.21	1,417.31	5.15	6.77	113.74	-7,043.33	2,432.61	7,458.66	7,446.75	11.91	626.397		
1,600.00	1,598.70	1,505.98	1,470.84	5.51	7.11	113.55	-7,039.07	2,447.69	7,465.25	7,452.64	12.61	592.201		
1,700.00	1,697.47	1,557.00	1,519.79	5.89	7.42	113.33	-7,035.51	2,461.62	7,473.92	7,460.63	13.29	562.565		
1,800.00	1,795.62	1,687.59	1,644.95	6.28	8.21	113.03	-7,026.34	2,497.73	7,484.07	7,469.60	14.47	517.273		
1,900.00	1,893.06	1,802.89	1,755.25	6.69	8.93	112.75	-7,017.63	2,530.19	7,495.26	7,479.68	15.59	480.914		
2,000.00	1,989.64	1,938.90	1,885.71	7.13	9.75	112.48	-7,007.23	2,567.21	7,507.38	7,490.54	16.84	445.757		
2,100.00	2,085.27	2,050.95	1,993.32	7.61	10.43	112.22	-6,998.60	2,597.22	7,520.66	7,502.68	17.97	418.409		
2,200.00	2,179.82	2,147.98	2,086.55	8.12	11.01	111.97	-6,990.98	2,622.99	7,535.02	7,515.98	19.05	395.600		
2,300.00	2,273.17	2,205.42	2,141.75	8.67	11.36	111.70	-6,986.63	2,638.27	7,550.98	7,531.07	19.92	379.104		
2,400.00	2,265.21	2,255.00	2,189.34	9.27	11.66	111.39	-6,983.14	2,651.73	7,568.85	7,548.07	20.78	364.228		
2,500.00	2,455.84	2,430.00	2,356.71	9.92	12.75	111.18	-6,969.39	2,700.92	7,587.39	7,564.90	22.49	337.401		
2,580.62	2,527.80	2,469.54	2,394.66	10.49	12.99	110.92	-6,966.32	2,711.60	7,603.27	7,580.01	23.25	326.972		
2,600.00	2,544.97	2,475.73	2,400.59	10.63	13.03	110.93	-6,965.87	2,713.31	7,607.27	7,583.85	23.42	324.808		
2,700.00	2,633.58	2,517.00	2,440.09	11.37	13.29	110.98	-6,963.03	2,724.93	7,628.46	7,604.10	24.35	313.237		
2,800.00	2,722.19	2,550.24	2,471.88	12.13	13.49	111.02	-6,960.98	2,734.43	7,650.41	7,625.16	25.25	302.940		
2,900.00	2,810.80	2,604.00	2,523.36	12.91	13.83	111.08	-6,958.04	2,749.64	7,673.04	7,646.75	26.30	291.771		
3,000.00	2,899.41	2,683.12	2,598.96	13.71	14.33	111.17	-6,953.85	2,772.59	7,696.11	7,668.58	27.52	279.615		
3,100.00	2,988.02	2,824.20	2,733.91	14.52	15.21	111.34	-6,946.21	2,813.01	7,719.01	7,689.85	29.16	264.721		
3,200.00	3,076.63	2,907.19	2,813.34	15.34	15.73	111.43	-6,941.44	2,836.57	7,741.55	7,711.13	30.42	254.463		
3,300.00	3,165.24	2,983.61	2,886.45	16.16	16.21	111.52	-6,937.40	2,858.43	7,764.57	7,732.92	31.65	245.289		
3,400.00	3,253.85	3,185.18	3,079.09	17.00	17.48	111.75	-6,924.43	2,916.31	7,786.25	7,752.53	33.72	230.887		
3,500.00	3,342.46	3,304.88	3,193.53	17.84	18.23	111.88	-6,916.47	2,950.51	7,808.14	7,772.88	35.26	221.465		
3,600.00	3,431.07	3,528.71	3,410.58	18.69	19.47	112.21	-6,902.87	3,003.22	7,829.22	7,791.92	37.30	209.887		
3,700.00	3,519.68	3,648.17	3,527.75	19.55	20.05	112.43	-6,896.07	3,025.50	7,849.06	7,810.39	38.67	202.981		
3,800.00	3,608.29	3,740.99	3,619.31	20.40	20.45	112.62	-6,891.58	3,040.00	7,868.88	7,829.02	39.86	197.414		
3,900.00	3,696.90	3,892.17	3,769.16	21.26	21.05	112.96	-6,885.26	3,058.90	7,888.53	7,847.28	41.25	191.238		
4,000.00	3,785.51	3,990.96	3,867.41	22.13	21.40	113.20	-6,881.48	3,068.49	7,907.80	7,865.41	42.39	186.546		
4,100.00	3,874.12	4,100.98	3,977.02	23.00	21.77	113.48	-6,877.78	3,077.21	7,927.15	7,883.60	43.55	182.029		
4,200.00	3,962.73	4,177.48	4,053.32	23.87	22.02	113.69	-6,875.51	3,082.32	7,946.64	7,902.07	44.57	178.281		
4,300.00	4,051.34	4,294.57	4,170.17	24.74	22.38	114.00	-6,872.19	3,089.07	7,966.17	7,920.45	45.72	174.228		
4,400.00	4,139.95	4,406.13	4,281.54	25.62	22.72	114.30	-6,869.02	3,094.61	7,985.67	7,938.82	46.85	170.468		
4,500.00	4,228.56	4,525.14	4,400.36	26.49	23.08	114.63	-6,865.31	3,100.21	8,005.01	7,957.02	47.99	166.813		
4,600.00	4,317.17	4,642.02	4,517.08	27.37	23.43	114.95	-6,861.44	3,105.06	8,024.23	7,975.10	49.12	163.355		
4,700.00	4,405.78	4,728.68	4,603.63	28.25	23.68	115.19	-6,858.61	3,108.27	8,043.53	7,993.38	50.15	160.386		
4,800.00	4,494.39	4,862.49	4,737.29	29.13	24.07	115.56	-6,854.15	3,112.62	8,062.89	8,011.57	51.32	157.101		
4,900.00	4,583.00	5,011.38	4,885.99	30.02	24.50	115.97	-6,848.02	3,116.98	8,081.56	8,029.03	52.53	153.834		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	5,108.13	4,982.63	30.90	24.78	116.24	-6,843.91	3,119.18	8,100.19	8,046.61	53.58	151.169		
5,100.00	4,760.22	5,136.00	5,010.47	31.79	24.86	116.32	-6,842.75	3,119.70	8,119.21	8,064.79	54.43	149.178		
5,200.00	4,848.83	5,206.72	5,081.14	32.67	25.06	116.51	-6,840.18	3,120.91	8,138.70	8,083.31	55.39	146.944		
5,300.00	4,937.44	5,247.81	5,122.20	33.56	25.17	116.63	-6,839.05	3,121.58	8,159.03	8,102.77	56.26	145.035		
5,400.00	5,026.05	5,310.00	5,184.37	34.45	25.35	116.81	-6,837.82	3,122.53	8,180.13	8,122.95	57.18	143.052		
5,500.00	5,114.66	5,310.00	5,184.37	35.34	25.35	116.81	-6,837.82	3,122.53	8,201.89	8,143.97	57.92	141.616		
5,600.00	5,203.27	5,371.97	5,246.34	36.23	25.52	116.98	-6,837.17	3,123.46	8,224.31	8,165.48	58.83	139.800		
5,700.00	5,291.88	5,413.74	5,288.09	37.12	25.63	117.10	-6,837.03	3,124.12	8,247.48	8,187.80	59.68	138.206		
5,800.00	5,380.50	5,485.00	5,359.35	38.01	25.82	117.31	-6,837.36	3,125.28	8,271.45	8,210.84	60.61	136.474		
5,900.00	5,469.11	5,510.77	5,385.11	38.90	25.89	117.38	-6,837.60	3,125.70	8,295.87	8,234.48	61.39	135.129		
6,000.00	5,557.72	6,000.00	5,598.35	39.79	27.19	117.99	-6,838.89	3,127.96	8,320.66	8,257.18	63.48	131.071		
6,100.00	5,646.33	5,921.33	5,795.63	40.68	26.99	118.55	-6,836.94	3,129.21	8,343.85	8,279.80	64.05	130.270		
6,200.00	5,734.94	5,998.17	5,872.45	41.58	27.21	118.76	-6,835.72	3,129.60	8,366.63	8,301.63	65.00	128.727		
6,300.00	5,823.55	6,088.79	5,963.07	42.47	27.46	119.02	-6,834.37	3,130.02	8,389.66	8,323.68	65.98	127.154		
6,400.00	5,912.16	6,181.64	6,055.91	43.36	27.72	119.28	-6,832.95	3,130.37	8,412.84	8,345.87	66.97	125.622		
6,500.00	6,000.77	6,293.75	6,168.00	44.26	28.03	119.59	-6,831.09	3,130.63	8,436.05	8,368.04	68.02	124.032		
6,600.00	6,089.38	6,403.37	6,277.60	45.15	28.34	119.89	-6,829.01	3,130.71	8,459.21	8,390.16	69.05	122.507		
6,700.00	6,177.99	6,509.38	6,383.59	46.05	28.64	120.19	-6,826.77	3,130.81	8,482.35	8,412.28	70.07	121.049		
6,800.00	6,266.60	6,619.07	6,493.25	46.94	28.95	120.49	-6,824.19	3,131.03	8,505.48	8,434.37	71.11	119.608		
6,900.00	6,355.21	6,730.18	6,604.31	47.84	29.27	120.79	-6,821.25	3,131.54	8,528.56	8,456.41	72.15	118.202		
7,000.00	6,443.82	6,800.08	6,674.19	48.74	29.48	120.97	-6,819.43	3,131.90	8,551.84	8,478.77	73.06	117.045		
7,100.00	6,532.43	6,877.02	6,751.10	49.63	29.71	121.18	-6,817.52	3,132.29	8,575.41	8,501.41	74.00	115.891		
7,200.00	6,621.04	6,945.70	6,819.77	50.53	29.91	121.36	-6,815.95	3,132.61	8,599.32	8,524.42	74.90	114.818		
7,300.00	6,709.65	7,013.67	6,887.72	51.42	30.11	121.55	-6,814.58	3,132.87	8,623.61	8,547.82	75.79	113.784		
7,400.00	6,798.26	7,084.61	6,958.65	52.32	30.32	121.73	-6,813.34	3,133.10	8,648.29	8,571.60	76.69	112.769		
7,500.00	6,886.87	7,160.71	7,034.74	53.22	30.54	121.94	-6,812.12	3,133.44	8,673.28	8,595.68	77.61	111.760		
7,600.00	6,975.48	7,237.00	7,111.02	54.12	30.77	122.14	-6,810.99	3,133.90	8,698.58	8,620.06	78.52	110.782		
7,656.30	7,025.36	7,281.02	7,155.03	54.62	30.90	122.25	-6,810.39	3,134.18	8,712.94	8,633.90	79.04	110.238		
7,700.00	7,064.54	7,315.54	7,189.56	55.00	31.01	115.32	-6,809.94	3,134.39	8,722.54	8,643.10	79.44	109.803		
7,750.00	7,110.29	7,355.78	7,229.79	55.40	31.13	105.46	-6,809.44	3,134.63	8,729.60	8,649.71	79.89	109.268		
7,800.00	7,156.67	7,396.52	7,270.52	55.75	31.25	93.70	-6,808.97	3,134.84	8,732.42	8,652.09	80.34	108.699		
7,850.00	7,203.34	7,445.78	7,319.78	56.05	31.40	80.84	-6,808.41	3,135.11	8,730.97	8,650.17	80.79	108.064		
7,900.00	7,249.95	7,497.45	7,371.45	56.30	31.56	68.19	-6,807.79	3,135.43	8,725.20	8,643.96	81.24	107.400		
7,950.00	7,296.14	7,548.63	7,422.62	56.50	31.71	56.92	-6,807.14	3,135.80	8,715.16	8,633.50	81.66	106.724		
8,000.00	7,341.56	7,598.90	7,472.89	56.64	31.86	47.55	-6,806.47	3,136.20	8,700.92	8,618.87	82.05	106.040		
8,050.00	7,385.86	7,635.63	7,509.61	56.74	31.98	40.01	-6,806.00	3,136.49	8,682.64	8,600.26	82.38	105.404		
8,100.00	7,428.71	7,674.41	7,548.39	56.79	32.09	34.00	-6,805.51	3,136.81	8,660.44	8,577.76	82.68	104.748		
8,150.00	7,469.77	7,711.55	7,585.52	56.80	32.21	29.18	-6,805.06	3,137.11	8,634.48	8,551.53	82.95	104.089		
8,200.00	7,508.75	7,746.76	7,620.72	56.77	32.32	25.21	-6,804.65	3,137.40	8,604.96	8,521.76	83.20	103.429		
8,250.00	7,545.33	7,780.51	7,654.48	56.70	32.42	21.85	-6,804.27	3,137.68	8,572.10	8,488.68	83.41	102.766		
8,300.00	7,579.25	7,812.01	7,685.97	56.59	32.52	18.89	-6,803.92	3,137.96	8,536.12	8,452.52	83.60	102.104		
8,350.00	7,610.24	7,840.75	7,714.71	56.45	32.61	16.13	-6,803.60	3,138.24	8,497.31	8,413.55	83.76	101.448		
8,400.00	7,638.06	7,866.51	7,740.46	56.28	32.69	13.37	-6,803.32	3,138.50	8,455.95	8,372.07	83.89	100.799		
8,450.00	7,662.52	7,889.09	7,763.04	56.09	32.76	10.37	-6,803.08	3,138.74	8,412.36	8,328.37	83.99	100.160		
8,500.00	7,683.41	7,908.32	7,782.27	55.88	32.82	6.73	-6,802.88	3,138.95	8,366.84	8,282.78	84.06	99.532		
8,550.00	7,700.59	7,924.04	7,797.99	55.64	32.87	1.68	-6,802.71	3,139.14	8,319.77	8,235.66	84.11	98.918		
8,600.00	7,713.91	7,938.04	7,811.99	55.39	32.91	-6.51	-6,802.57	3,139.30	8,271.47	8,187.34	84.14	98.311		
8,650.00	7,723.29	7,948.62	7,822.57	55.14	32.94	-22.61	-6,802.45	3,139.43	8,222.33	8,138.19	84.14	97.721		
8,700.00	7,728.64	7,954.37	7,828.31	54.87	32.96	-57.57	-6,802.39	3,139.50	8,172.72	8,088.60	84.12	97.155		
8,740.83	7,730.00	7,955.46	7,829.40	54.65	32.96	-94.72	-6,802.38	3,139.51	8,132.13	8,048.04	84.09	96.712		
8,800.00	7,730.00	7,954.69	7,828.64	54.33	32.96	-94.68	-6,802.39	3,139.50	8,073.36	7,989.33	84.02	96.084		
8,900.00	7,730.00	7,953.40	7,827.34	53.82	32.96	-94.60	-6,802.40	3,139.48	7,974.04	7,890.13	83.92	95.022		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,952.11	7,826.05	53.33	32.95	-94.52	-6,802.42	3,139.47	7,874.75	7,790.94	83.81	93.960		
9,100.00	7,730.00	7,950.83	7,824.77	52.87	32.95	-94.44	-6,802.43	3,139.45	7,775.47	7,691.77	83.70	92.896		
9,200.00	7,730.00	7,949.55	7,823.50	52.44	32.95	-94.37	-6,802.44	3,139.44	7,676.21	7,592.62	83.59	91.832		
9,300.00	7,730.00	7,948.28	7,822.23	52.03	32.94	-94.29	-6,802.46	3,139.42	7,576.98	7,493.50	83.48	90.766		
9,400.00	7,730.00	7,947.02	7,820.96	51.65	32.94	-94.21	-6,802.47	3,139.41	7,477.76	7,394.39	83.36	89.700		
9,500.00	7,730.00	7,945.76	7,819.70	51.29	32.93	-94.13	-6,802.49	3,139.39	7,378.56	7,295.31	83.25	88.633		
9,600.00	7,730.00	7,944.51	7,818.45	50.95	32.93	-94.06	-6,802.50	3,139.38	7,279.38	7,196.25	83.13	87.566		
9,700.00	7,730.00	7,943.26	7,817.21	50.64	32.93	-93.98	-6,802.51	3,139.36	7,180.23	7,097.22	83.01	86.497		
9,800.00	7,730.00	7,942.02	7,815.97	50.35	32.92	-93.91	-6,802.53	3,139.35	7,081.10	6,998.21	82.89	85.428		
9,900.00	7,730.00	7,940.79	7,814.73	50.09	32.92	-93.83	-6,802.54	3,139.33	6,982.00	6,899.23	82.77	84.357		
10,000.00	7,730.00	7,939.56	7,813.50	49.86	32.91	-93.76	-6,802.55	3,139.32	6,882.92	6,800.27	82.64	83.286		
10,100.00	7,730.00	7,938.34	7,812.28	49.65	32.91	-93.68	-6,802.56	3,139.30	6,783.86	6,701.35	82.51	82.214		
10,200.00	7,730.00	7,937.12	7,811.07	49.48	32.91	-93.61	-6,802.58	3,139.29	6,684.84	6,602.45	82.39	81.141		
10,300.00	7,730.00	7,935.91	7,809.85	49.35	32.90	-93.54	-6,802.59	3,139.28	6,585.84	6,503.59	82.25	80.067		
10,400.00	7,730.00	7,934.70	7,808.65	49.27	32.90	-93.46	-6,802.60	3,139.26	6,486.88	6,404.76	82.12	78.992		
10,500.00	7,730.00	7,933.50	7,807.45	49.26	32.89	-93.39	-6,802.62	3,139.25	6,387.95	6,305.96	81.98	77.916		
10,600.00	7,730.00	7,932.31	7,806.25	49.32	32.89	-93.32	-6,802.63	3,139.23	6,289.05	6,207.20	81.85	76.840		
10,700.00	7,730.00	7,931.12	7,805.07	49.51	32.89	-93.24	-6,802.64	3,139.22	6,190.18	6,108.48	81.71	75.762		
10,800.00	7,730.00	7,929.93	7,803.88	49.83	32.88	-93.17	-6,802.65	3,139.21	6,091.36	6,009.80	81.56	74.683		
10,900.00	7,730.00	7,928.79	7,802.74	50.31	32.88	-93.10	-6,802.66	3,139.19	5,992.57	5,911.15	81.42	73.603		
11,000.00	7,730.00	7,927.80	7,801.75	50.96	32.88	-93.04	-6,802.67	3,139.18	5,893.82	5,812.55	81.27	72.521		
11,100.00	7,730.00	7,926.81	7,800.76	51.75	32.87	-92.98	-6,802.68	3,139.17	5,795.12	5,714.00	81.12	71.438		
11,200.00	7,730.00	7,925.82	7,799.77	52.66	32.87	-92.92	-6,802.70	3,139.16	5,696.46	5,615.49	80.97	70.354		
11,300.00	7,730.00	7,924.82	7,798.77	53.67	32.87	-92.86	-6,802.71	3,139.14	5,597.85	5,517.03	80.81	69.268		
11,400.00	7,730.00	7,923.83	7,797.78	54.75	32.86	-92.80	-6,802.72	3,139.13	5,499.28	5,418.63	80.66	68.181		
11,500.00	7,730.00	7,922.83	7,796.78	55.89	32.86	-92.74	-6,802.73	3,139.12	5,400.77	5,320.28	80.50	67.092		
11,600.00	7,730.00	7,921.83	7,795.78	57.07	32.86	-92.68	-6,802.74	3,139.11	5,302.32	5,221.98	80.34	66.002		
11,700.00	7,730.00	7,920.83	7,794.78	58.30	32.86	-92.62	-6,802.75	3,139.10	5,203.92	5,123.75	80.17	64.910		
11,800.00	7,730.00	7,919.83	7,793.78	59.55	32.85	-92.56	-6,802.76	3,139.09	5,105.59	5,025.59	80.00	63.816		
11,900.00	7,730.00	7,918.83	7,792.78	60.84	32.85	-92.49	-6,802.77	3,139.08	5,007.32	4,927.49	79.84	62.721		
12,000.00	7,730.00	7,917.83	7,791.78	62.15	32.85	-92.43	-6,802.78	3,139.06	4,909.13	4,829.46	79.66	61.623		
12,100.00	7,730.00	7,916.83	7,790.78	63.49	32.84	-92.37	-6,802.79	3,139.05	4,811.00	4,731.51	79.49	60.522		
12,200.00	7,730.00	7,915.83	7,789.78	64.85	32.84	-92.31	-6,802.80	3,139.04	4,712.96	4,633.64	79.32	59.419		
12,300.00	7,730.00	7,914.82	7,788.77	66.22	32.84	-92.25	-6,802.81	3,139.03	4,615.00	4,535.86	79.14	58.314		
12,400.00	7,730.00	7,913.81	7,787.76	67.62	32.83	-92.19	-6,802.82	3,139.02	4,517.13	4,438.16	78.96	57.205		
12,500.00	7,730.00	7,912.81	7,786.76	69.03	32.83	-92.13	-6,802.83	3,139.01	4,419.35	4,340.56	78.79	56.092		
12,600.00	7,730.00	7,911.80	7,785.75	70.45	32.83	-92.06	-6,802.84	3,138.99	4,321.67	4,243.06	78.61	54.976		
12,700.00	7,730.00	7,910.79	7,784.74	71.90	32.82	-92.00	-6,802.85	3,138.98	4,224.11	4,145.67	78.43	53.856		
12,800.00	7,730.00	7,909.78	7,783.73	73.35	32.82	-91.94	-6,802.86	3,138.97	4,126.65	4,048.40	78.26	52.731		
12,900.00	7,730.00	7,908.77	7,782.72	74.81	32.82	-91.88	-6,802.87	3,138.96	4,029.33	3,951.24	78.09	51.601		
13,000.00	7,730.00	7,907.75	7,781.71	76.29	32.82	-91.82	-6,802.88	3,138.95	3,932.14	3,854.22	77.92	50.465		
13,100.00	7,730.00	7,906.74	7,780.69	77.78	32.81	-91.76	-6,802.89	3,138.94	3,835.09	3,757.33	77.76	49.323		
13,200.00	7,730.00	7,905.73	7,779.68	79.28	32.81	-91.69	-6,802.91	3,138.93	3,738.20	3,660.60	77.60	48.173		
13,300.00	7,730.00	7,904.71	7,778.66	80.79	32.81	-91.63	-6,802.92	3,138.91	3,641.47	3,564.02	77.45	47.016		
13,400.00	7,730.00	7,903.69	7,777.65	82.31	32.80	-91.57	-6,802.93	3,138.90	3,544.93	3,467.61	77.31	45.850		
13,500.00	7,730.00	7,902.68	7,776.63	83.84	32.80	-91.51	-6,802.94	3,138.89	3,448.58	3,371.39	77.19	44.675		
13,600.00	7,730.00	7,901.66	7,775.61	85.37	32.80	-91.44	-6,802.95	3,138.88	3,352.45	3,275.36	77.09	43.489		
13,700.00	7,730.00	7,900.64	7,774.59	86.92	32.79	-91.38	-6,802.96	3,138.87	3,256.55	3,179.54	77.00	42.290		
13,800.00	7,730.00	7,899.62	7,773.57	88.47	32.79	-91.32	-6,802.97	3,138.86	3,160.90	3,083.95	76.95	41.079		
13,900.00	7,730.00	7,898.59	7,772.54	90.03	32.79	-91.26	-6,802.98	3,138.85	3,065.53	2,988.61	76.92	39.852		
14,000.00	7,730.00	7,897.57	7,771.52	91.59	32.78	-91.19	-6,802.99	3,138.83	2,970.46	2,893.53	76.94	38.610		
14,100.00	7,730.00	7,896.54	7,770.50	93.16	32.78	-91.13	-6,803.00	3,138.82	2,875.73	2,798.74	76.99	37.350		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,895.52	7,769.47	94.74	32.78	-91.07	-6,803.01	3,138.81	2,781.37	2,704.26	77.11	36.070		
14,300.00	7,730.00	7,894.49	7,768.44	96.33	32.77	-91.01	-6,803.02	3,138.80	2,687.41	2,610.12	77.29	34.770		
14,400.00	7,730.00	7,893.46	7,767.42	97.92	32.77	-90.94	-6,803.03	3,138.79	2,593.91	2,516.36	77.55	33.447		
14,500.00	7,730.00	7,892.44	7,766.39	99.51	32.77	-90.88	-6,803.05	3,138.78	2,500.91	2,423.00	77.91	32.100		
14,600.00	7,730.00	7,891.41	7,765.36	101.11	32.76	-90.82	-6,803.06	3,138.77	2,408.47	2,330.09	78.38	30.729		
14,700.00	7,730.00	7,890.37	7,764.33	102.72	32.76	-90.75	-6,803.07	3,138.75	2,316.66	2,237.68	78.98	29.333		
14,800.00	7,730.00	7,889.34	7,763.29	104.33	32.76	-90.69	-6,803.08	3,138.74	2,225.55	2,145.82	79.73	27.913		
14,900.00	7,730.00	7,888.31	7,762.26	105.94	32.75	-90.63	-6,803.09	3,138.73	2,135.24	2,054.57	80.67	26.469		
15,000.00	7,730.00	7,887.27	7,761.23	107.56	32.75	-90.56	-6,803.10	3,138.72	2,045.82	1,964.01	81.82	25.005		
15,100.00	7,730.00	7,886.24	7,760.19	109.18	32.75	-90.50	-6,803.11	3,138.71	1,957.44	1,874.23	83.21	23.525		
15,200.00	7,730.00	7,885.20	7,759.15	110.81	32.75	-90.44	-6,803.12	3,138.70	1,870.22	1,785.34	84.88	22.035		
15,300.00	7,730.00	7,884.16	7,758.12	112.44	32.74	-90.37	-6,803.13	3,138.69	1,784.34	1,697.47	86.87	20.541		
15,400.00	7,730.00	7,883.12	7,757.08	114.08	32.74	-90.31	-6,803.14	3,138.68	1,700.01	1,610.79	89.22	19.055		
15,500.00	7,730.00	7,882.08	7,756.04	115.72	32.74	-90.25	-6,803.16	3,138.66	1,617.46	1,525.49	91.97	17.586		
15,600.00	7,730.00	7,881.04	7,755.00	117.36	32.73	-90.18	-6,803.17	3,138.65	1,536.99	1,441.81	95.18	16.148		
15,700.00	7,730.00	7,880.00	7,753.95	119.00	32.73	-90.12	-6,803.18	3,138.64	1,458.93	1,360.05	98.88	14.755		
15,800.00	7,730.00	7,878.96	7,752.91	120.65	32.73	-90.06	-6,803.19	3,138.63	1,383.70	1,280.60	103.10	13.421		
15,900.00	7,730.00	7,877.91	7,751.87	122.30	32.72	-89.99	-6,803.20	3,138.62	1,311.78	1,203.90	107.88	12.160		
16,000.00	7,730.00	7,876.87	7,750.82	123.96	32.72	-89.93	-6,803.21	3,138.61	1,243.75	1,130.53	113.22	10.985		
16,100.00	7,730.00	7,875.82	7,749.77	125.61	32.72	-89.86	-6,803.22	3,138.60	1,180.28	1,061.18	119.10	9.910		
16,200.00	7,730.00	7,874.77	7,748.73	127.27	32.71	-89.80	-6,803.23	3,138.59	1,122.14	996.67	125.46	8.944		
16,300.00	7,730.00	7,873.72	7,747.68	128.94	32.71	-89.74	-6,803.24	3,138.58	1,070.20	938.01	132.19	8.096		
16,400.00	7,730.00	7,872.67	7,746.63	130.60	32.71	-89.67	-6,803.26	3,138.56	1,025.41	886.30	139.11	7.371		
16,500.00	7,730.00	7,871.62	7,745.58	132.27	32.70	-89.61	-6,803.27	3,138.55	988.73	842.77	145.96	6.774		
16,600.00	7,730.00	7,870.57	7,744.52	133.94	32.70	-89.54	-6,803.28	3,138.54	961.10	808.65	152.45	6.304		
16,700.00	7,730.00	7,869.51	7,743.47	135.61	32.70	-89.48	-6,803.29	3,138.53	943.32	785.07	158.24	5.961		
16,800.00	7,730.00	7,868.46	7,742.41	137.28	32.69	-89.41	-6,803.30	3,138.52	935.93	772.90	163.03	5.741		
16,819.39	7,730.00	7,868.25	7,742.21	137.61	32.69	-89.40	-6,803.30	3,138.52	935.73	771.91	163.82	5.712 CC, ES		
16,900.00	7,730.00	7,867.40	7,741.36	138.96	32.69	-89.35	-6,803.31	3,138.51	939.20	772.60	166.60	5.638 SF		
17,000.00	7,730.00	7,866.35	7,740.30	140.64	32.69	-89.28	-6,803.32	3,138.50	953.00	784.16	168.84	5.644		
17,100.00	7,730.00	7,865.29	7,739.24	142.32	32.68	-89.22	-6,803.34	3,138.49	976.90	807.10	169.80	5.753		
17,200.00	7,730.00	7,864.23	7,738.18	144.00	32.68	-89.15	-6,803.35	3,138.48	1,010.17	840.55	169.62	5.956		
17,300.00	7,730.00	7,863.17	7,737.12	145.69	32.68	-89.09	-6,803.36	3,138.46	1,051.93	883.43	168.50	6.243		
17,400.00	7,730.00	7,862.11	7,736.06	147.37	32.67	-89.02	-6,803.37	3,138.45	1,101.21	934.52	166.69	6.607		
17,500.00	7,730.00	7,861.04	7,735.00	149.06	32.67	-88.96	-6,803.38	3,138.44	1,157.05	992.67	164.39	7.039		
17,600.00	7,730.00	7,859.98	7,733.93	150.75	32.67	-88.89	-6,803.39	3,138.43	1,218.56	1,056.77	161.79	7.532		
17,700.00	7,730.00	7,858.91	7,732.87	152.44	32.66	-88.83	-6,803.40	3,138.42	1,284.91	1,125.86	159.04	8.079		
17,800.00	7,730.00	7,857.85	7,731.80	154.13	32.66	-88.76	-6,803.42	3,138.41	1,355.39	1,199.14	156.25	8.675		
17,900.00	7,730.00	7,856.78	7,730.74	155.83	32.66	-88.70	-6,803.43	3,138.40	1,429.40	1,275.91	153.49	9.313		
18,000.00	7,730.00	7,855.71	7,729.67	157.52	32.65	-88.63	-6,803.44	3,138.39	1,506.41	1,355.61	150.81	9.989		
18,100.00	7,730.00	7,854.64	7,728.60	159.22	32.65	-88.57	-6,803.45	3,138.38	1,585.99	1,437.75	148.24	10.699		
18,200.00	7,730.00	7,853.57	7,727.53	160.92	32.65	-88.50	-6,803.46	3,138.37	1,667.77	1,521.97	145.80	11.439		
18,300.00	7,730.00	7,852.50	7,726.45	162.62	32.64	-88.44	-6,803.47	3,138.35	1,751.44	1,607.94	143.50	12.205		
18,400.00	7,730.00	7,851.42	7,725.38	164.32	32.64	-88.37	-6,803.48	3,138.34	1,836.75	1,695.40	141.34	12.995		
18,426.22	7,730.00	7,851.14	7,725.10	164.76	32.64	-88.35	-6,803.49	3,138.34	1,859.36	1,718.56	140.80	13.206		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	163.11	-7,147.24	2,169.80	7,469.38					
100.00	100.00	42.74	42.73	0.13	0.08	163.11	-7,147.34	2,170.27	7,469.99	7,469.79	0.20	N/A		
200.00	200.00	82.51	82.48	0.49	0.17	163.10	-7,147.60	2,171.52	7,471.48	7,470.85	0.64	N/A		
300.00	300.00	160.23	160.15	0.85	0.43	163.08	-7,148.34	2,174.41	7,473.49	7,472.22	1.28	5,856.175		
400.00	400.00	227.00	226.87	1.21	0.67	163.06	-7,149.21	2,176.90	7,475.84	7,473.96	1.88	3,984.417		
500.00	500.00	279.15	278.97	1.57	0.86	163.05	-7,150.15	2,178.93	7,478.73	7,476.31	2.42	3,085.539		
600.00	600.00	318.00	317.77	1.93	1.00	163.04	-7,151.09	2,180.55	7,482.34	7,479.42	2.92	2,559.922		
700.00	700.00	373.30	372.98	2.29	1.21	163.03	-7,152.69	2,183.36	7,486.64	7,483.16	3.48	2,149.293		
800.00	800.00	410.00	409.58	2.64	1.35	163.01	-7,153.86	2,185.70	7,491.67	7,487.70	3.98	1,884.631		
900.00	900.00	410.00	409.58	3.00	1.35	163.01	-7,153.86	2,185.70	7,497.84	7,493.51	4.33	1,730.653		
1,000.00	1,000.00	456.07	455.49	3.36	1.52	162.99	-7,155.93	2,188.99	7,504.66	7,499.80	4.86	1,544.390		
1,100.00	1,100.00	502.00	501.18	3.72	1.70	162.97	-7,159.03	2,192.50	7,512.94	7,507.55	5.38	1,395.274		
1,200.00	1,200.00	502.00	501.18	4.08	1.70	162.97	-7,159.03	2,192.50	7,521.86	7,516.12	5.74	1,310.811		
1,300.00	1,299.98	502.00	501.18	4.43	1.70	115.65	-7,159.03	2,192.50	7,532.85	7,526.76	6.09	1,237.099		
1,400.00	1,399.84	549.27	548.10	4.79	1.89	115.40	-7,163.10	2,196.51	7,546.10	7,539.48	6.62	1,140.476		
1,500.00	1,499.45	594.00	592.40	5.15	2.08	115.12	-7,167.55	2,200.84	7,561.97	7,554.83	7.14	1,059.742		
1,600.00	1,598.70	594.00	592.40	5.51	2.08	114.79	-7,167.55	2,200.84	7,580.09	7,572.60	7.49	1,012.160		
1,700.00	1,697.47	636.76	634.64	5.89	2.26	114.43	-7,172.23	2,205.60	7,600.56	7,592.54	8.02	947.919		
1,800.00	1,795.62	686.00	683.12	6.28	2.47	114.04	-7,177.93	2,212.01	7,623.34	7,614.75	8.58	888.158		
1,900.00	1,893.06	717.24	713.81	6.69	2.62	113.60	-7,181.64	2,216.55	7,648.17	7,639.07	9.10	840.572		
2,000.00	1,989.64	778.00	773.35	7.13	2.90	113.14	-7,188.75	2,226.30	7,674.88	7,665.12	9.76	786.750		
2,100.00	2,085.27	809.48	804.13	7.61	3.05	112.63	-7,192.51	2,231.75	7,703.55	7,693.23	10.32	746.560		
2,200.00	2,179.82	855.00	848.53	8.12	3.27	112.09	-7,198.37	2,239.90	7,734.36	7,723.39	10.97	705.083		
2,300.00	2,273.17	855.00	848.53	8.67	3.27	111.45	-7,198.37	2,239.90	7,767.16	7,755.71	11.45	678.253		
2,400.00	2,365.21	906.18	898.30	9.27	3.54	110.85	-7,205.46	2,249.43	7,801.86	7,789.66	12.20	639.485		
2,500.00	2,455.84	942.00	933.07	9.92	3.72	110.19	-7,210.69	2,256.33	7,838.48	7,825.57	12.91	607.020		
2,580.62	2,527.80	942.00	933.07	10.49	3.72	109.56	-7,210.69	2,256.33	7,869.45	7,856.07	13.38	587.970		
2,600.00	2,544.97	942.00	933.07	10.63	3.72	109.56	-7,210.69	2,256.33	7,877.09	7,863.58	13.50	583.460		
2,700.00	2,633.58	996.81	986.12	11.37	4.02	109.69	-7,219.24	2,267.12	7,916.52	7,902.15	14.37	551.015		
2,800.00	2,722.19	1,036.00	1,023.95	12.13	4.23	109.78	-7,225.81	2,274.96	7,956.87	7,941.69	15.18	524.152		
2,900.00	2,810.80	1,063.98	1,050.92	12.91	4.38	109.85	-7,230.69	2,280.60	7,997.89	7,981.94	15.95	501.457		
3,000.00	2,899.41	3,000.00	1,149.68	13.71	15.40	110.10	-7,248.81	2,300.95	8,039.29	8,013.79	25.50	315.252		
3,100.00	2,988.02	1,237.24	1,218.01	14.52	5.36	110.27	-7,261.13	2,314.82	8,080.51	8,062.41	18.10	446.469		
3,200.00	3,076.63	1,289.00	1,267.78	15.34	5.66	110.39	-7,270.50	2,325.50	8,122.48	8,103.47	19.01	427.174		
3,300.00	3,165.24	1,289.00	1,267.78	16.16	5.66	110.39	-7,270.50	2,325.50	8,164.97	8,145.30	19.67	415.143		
3,400.00	3,253.85	1,352.56	1,328.71	17.00	6.03	110.54	-7,282.42	2,339.12	8,208.05	8,187.39	20.66	397.322		
3,500.00	3,342.46	1,407.69	1,381.48	17.84	6.37	110.66	-7,292.96	2,351.09	8,251.57	8,229.96	21.61	381.853		
3,600.00	3,431.07	1,463.00	1,434.36	18.69	6.70	110.78	-7,303.69	2,363.28	8,295.48	8,272.91	22.56	367.629		
3,700.00	3,519.68	1,494.61	1,464.52	19.55	6.90	110.85	-7,309.95	2,370.33	8,339.91	8,316.52	23.39	356.519		
3,800.00	3,608.29	1,550.00	1,517.26	20.40	7.25	110.97	-7,321.43	2,382.80	8,385.09	8,360.74	24.35	344.311		
3,900.00	3,696.90	1,550.00	1,517.26	21.26	7.25	110.97	-7,321.43	2,382.80	8,430.71	8,405.71	25.00	337.245		
4,000.00	3,785.51	1,602.72	1,567.31	22.13	7.59	111.08	-7,332.75	2,394.89	8,476.94	8,451.00	25.95	326.713		
4,100.00	3,874.12	1,638.00	1,600.74	23.00	7.82	111.16	-7,340.45	2,403.14	8,523.67	8,496.88	26.79	318.161		
4,200.00	3,962.73	1,671.85	1,632.75	23.87	8.04	111.23	-7,348.01	2,411.17	8,570.98	8,543.35	27.63	310.239		
4,300.00	4,051.34	1,725.00	1,682.82	24.74	8.40	111.34	-7,360.37	2,423.97	8,619.02	8,590.44	28.58	301.594		
4,400.00	4,139.95	2,208.39	2,141.80	25.62	11.55	112.31	-7,461.80	2,536.39	8,665.43	8,633.30	32.13	269.699		
4,500.00	4,228.56	2,249.00	2,180.65	26.49	11.81	112.39	-7,469.52	2,545.35	8,709.75	8,676.73	33.02	263.776		
4,600.00	4,317.17	2,299.71	2,229.06	27.37	12.13	112.49	-7,479.32	2,556.83	8,754.51	8,720.54	33.97	257.700		
4,700.00	4,405.78	2,336.00	2,263.60	28.25	12.36	112.56	-7,486.50	2,565.34	8,799.85	8,765.02	34.83	252.623		
4,800.00	4,494.39	2,598.00	2,513.95	29.13	14.02	113.08	-7,537.70	2,623.08	8,844.97	8,807.92	37.05	238.708		
4,900.00	4,583.00	2,654.71	2,568.41	30.02	14.37	113.19	-7,548.21	2,634.94	8,888.93	8,850.89	38.04	233.701		
5,000.00	4,671.61	2,685.00	2,597.41	30.90	14.55	113.25	-7,554.01	2,641.44	8,933.54	8,894.68	38.86	229.907		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	2,736.81	2,646.90	31.79	14.89	113.35	-7,564.11	2,652.96	8,978.64	8,938.82	39.81	225.519		
5,200.00	4,848.83	2,951.42	2,851.36	32.67	16.27	113.73	-7,604.38	2,704.24	9,023.66	8,981.85	41.81	215.826		
5,300.00	4,937.44	2,995.39	2,893.32	33.56	16.55	113.80	-7,612.40	2,714.70	9,068.05	9,025.33	42.72	212.243		
5,400.00	5,026.05	3,035.00	2,931.12	34.45	16.81	113.87	-7,619.82	2,723.88	9,112.88	9,069.27	43.61	208.969		
5,500.00	5,114.66	3,072.84	2,967.22	35.34	17.05	113.94	-7,627.12	2,732.58	9,158.22	9,113.74	44.48	205.912		
5,600.00	5,203.27	3,122.00	3,014.01	36.23	17.37	114.03	-7,636.97	2,744.01	9,204.16	9,158.74	45.41	202.676		
5,700.00	5,291.88	3,122.00	3,014.01	37.12	17.37	114.03	-7,636.97	2,744.01	9,250.60	9,204.58	46.03	200.987		
5,800.00	5,380.50	3,169.09	3,058.72	38.01	17.68	114.11	-7,646.79	2,755.02	9,297.57	9,250.63	46.94	198.063		
5,900.00	5,469.11	3,209.00	3,096.56	38.90	17.95	114.18	-7,655.43	2,764.33	9,345.13	9,297.32	47.81	195.471		
6,000.00	5,557.72	3,209.00	3,096.56	39.79	17.95	114.18	-7,655.43	2,764.33	9,393.29	9,344.88	48.40	194.072		
6,100.00	5,646.33	3,247.50	3,132.96	40.68	18.21	114.25	-7,664.12	2,773.36	9,441.95	9,392.71	49.25	191.719		
6,200.00	5,734.94	3,296.00	3,178.64	41.58	18.55	114.33	-7,675.64	2,784.88	9,491.42	9,441.26	50.16	189.215		
6,300.00	5,823.55	3,620.45	3,484.37	42.47	20.81	114.85	-7,747.45	2,866.28	9,540.48	9,487.45	53.03	179.908		
6,400.00	5,912.16	3,669.26	3,530.44	43.36	21.14	114.92	-7,757.51	2,878.87	9,587.92	9,533.95	53.96	177.669		
6,500.00	6,000.77	3,703.00	3,562.27	44.26	21.38	114.97	-7,764.68	2,887.48	9,635.84	9,581.05	54.79	175.870		
6,600.00	6,089.38	3,733.00	3,590.55	45.15	21.59	115.02	-7,771.22	2,895.03	9,684.26	9,628.67	55.58	174.231		
6,700.00	6,177.99	3,777.38	3,632.38	46.05	21.90	115.09	-7,781.14	2,906.08	9,733.13	9,676.66	56.47	172.352		
6,800.00	6,266.60	6,668.08	6,458.72	46.94	34.24	121.06	-8,086.16	3,217.20	9,763.43	9,692.94	70.49	138.501		
6,900.00	6,355.21	6,756.73	6,547.36	47.84	34.42	121.28	-8,084.68	3,216.45	9,787.69	9,716.21	71.48	136.934		
7,000.00	6,443.82	6,834.60	6,625.21	48.74	34.59	121.46	-8,083.43	3,215.98	9,812.19	9,739.76	72.43	135.465		
7,100.00	6,532.43	6,905.92	6,696.53	49.63	34.74	121.63	-8,082.34	3,215.72	9,836.96	9,763.58	73.37	134.065		
7,200.00	6,621.04	6,969.83	6,760.44	50.53	34.89	121.78	-8,081.49	3,215.73	9,862.08	9,787.78	74.30	132.737		
7,300.00	6,709.65	7,033.85	6,824.45	51.42	35.03	121.93	-8,080.77	3,216.00	9,887.58	9,812.36	75.22	131.453		
7,400.00	6,798.26	7,092.93	6,883.52	52.32	35.18	122.07	-8,080.22	3,216.48	9,913.46	9,837.33	76.13	130.219		
7,500.00	6,886.87	7,150.37	6,940.96	53.22	35.32	122.20	-8,079.85	3,217.18	9,939.76	9,862.72	77.03	129.030		
7,600.00	6,975.48	7,225.00	7,015.58	54.12	35.51	122.37	-8,079.60	3,218.42	9,966.50	9,888.51	77.99	127.796		
7,656.30	7,025.36	7,242.86	7,033.44	54.62	35.56	122.41	-8,079.58	3,218.77	9,981.70	9,903.25	78.45	127.232		
7,700.00	7,064.54	7,272.65	7,063.21	55.00	35.64	115.45	-8,079.55	3,219.38	9,991.99	9,913.13	78.86	126.703		
7,750.00	7,110.29	7,307.44	7,098.00	55.40	35.73	105.58	-8,079.56	3,220.16	9,999.86	9,920.54	79.32	126.062		
7,900.00	7,249.95	7,400.00	7,190.53	56.30	35.99	68.19	-8,079.73	3,222.52	9,998.10	9,917.52	80.59	124.062		
7,950.00	7,296.14	7,442.93	7,233.43	56.50	36.11	56.90	-8,079.90	3,223.80	9,989.07	9,908.06	81.01	123.303		
8,000.00	7,341.56	7,473.29	7,263.78	56.64	36.20	47.48	-8,080.06	3,224.81	9,975.92	9,894.55	81.37	122.606		
8,050.00	7,385.86	7,503.01	7,293.48	56.74	36.29	39.93	-8,080.26	3,225.88	9,958.73	9,877.04	81.69	121.908		
8,100.00	7,428.71	7,531.86	7,322.30	56.79	36.37	33.91	-8,080.49	3,227.00	9,937.63	9,855.64	81.99	121.211		
8,150.00	7,469.77	7,574.00	7,364.41	56.80	36.49	29.08	-8,080.88	3,228.78	9,912.78	9,830.48	82.30	120.443		
8,200.00	7,508.75	7,574.00	7,364.41	56.77	36.49	25.06	-8,080.88	3,228.78	9,884.32	9,801.87	82.45	119.886		
8,250.00	7,545.33	7,612.86	7,403.23	56.70	36.61	21.71	-8,081.30	3,230.58	9,852.47	9,769.76	82.71	119.121		
8,300.00	7,579.25	7,637.27	7,427.61	56.59	36.69	18.74	-8,081.59	3,231.81	9,817.47	9,734.58	82.90	118.432		
8,350.00	7,610.24	7,659.70	7,450.00	56.45	36.76	15.99	-8,081.87	3,232.99	9,779.57	9,696.52	83.05	117.753		
8,400.00	7,638.06	7,679.97	7,470.23	56.28	36.82	13.27	-8,082.14	3,234.11	9,739.04	9,655.87	83.18	117.087		
8,450.00	7,662.52	7,697.90	7,488.13	56.09	36.88	10.37	-8,082.39	3,235.14	9,696.19	9,612.92	83.28	116.436		
8,500.00	7,683.41	7,713.35	7,503.55	55.88	36.93	6.92	-8,082.61	3,236.06	9,651.32	9,567.98	83.34	115.800		
8,550.00	7,700.59	7,726.19	7,516.37	55.64	36.97	2.34	-8,082.80	3,236.84	9,604.78	9,521.39	83.39	115.183		
8,600.00	7,713.91	7,749.00	7,539.13	55.39	37.04	-4.71	-8,083.15	3,238.28	9,556.92	9,473.47	83.45	114.521		
8,650.00	7,723.29	7,749.00	7,539.13	55.14	37.04	-17.39	-8,083.15	3,238.28	9,508.06	9,424.65	83.42	113.982		
8,700.00	7,728.64	7,749.00	7,539.13	54.87	37.04	-43.70	-8,083.15	3,238.28	9,458.61	9,375.24	83.37	113.452		
8,740.83	7,730.00	7,749.84	7,539.97	54.65	37.04	-78.48	-8,083.16	3,238.34	9,418.05	9,334.72	83.33	113.022		
8,800.00	7,730.00	7,751.08	7,541.21	54.33	37.05	-78.54	-8,083.18	3,238.42	9,359.26	9,276.00	83.26	112.404		
8,900.00	7,730.00	7,753.18	7,543.30	53.82	37.05	-78.65	-8,083.21	3,238.55	9,259.91	9,176.76	83.15	111.359		
9,000.00	7,730.00	7,755.26	7,545.38	53.33	37.06	-78.77	-8,083.24	3,238.68	9,160.58	9,077.54	83.04	110.314		
9,100.00	7,730.00	7,757.33	7,547.44	52.87	37.07	-78.88	-8,083.28	3,238.81	9,061.26	8,978.33	82.93	109.268		
9,200.00	7,730.00	7,759.39	7,549.50	52.44	37.07	-78.99	-8,083.31	3,238.95	8,961.95	8,879.14	82.81	108.221		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,300.00	7,730.00	7,761.44	7,551.55	52.03	37.08	-79.10	-8,083.34	3,239.08	8,862.66	8,779.97	82.69	107.174		
9,400.00	7,730.00	7,763.48	7,553.58	51.65	37.09	-79.21	-8,083.37	3,239.21	8,763.39	8,680.81	82.58	106.126		
9,500.00	7,730.00	7,765.51	7,555.60	51.29	37.09	-79.31	-8,083.40	3,239.33	8,664.13	8,581.67	82.46	105.077		
9,600.00	7,730.00	7,767.53	7,557.62	50.95	37.10	-79.42	-8,083.43	3,239.46	8,564.89	8,482.55	82.33	104.027		
9,700.00	7,730.00	7,769.53	7,559.62	50.64	37.11	-79.53	-8,083.46	3,239.59	8,465.66	8,383.45	82.21	102.977		
9,800.00	7,730.00	7,771.53	7,561.61	50.35	37.11	-79.64	-8,083.50	3,239.71	8,366.46	8,284.37	82.08	101.926		
9,900.00	7,730.00	7,773.52	7,563.60	50.09	37.12	-79.74	-8,083.53	3,239.84	8,267.27	8,185.31	81.96	100.874		
10,000.00	7,730.00	7,775.49	7,565.57	49.86	37.13	-79.85	-8,083.56	3,239.96	8,168.10	8,086.28	81.83	99.821		
10,100.00	7,730.00	7,777.46	7,567.53	49.65	37.13	-79.96	-8,083.59	3,240.08	8,068.96	7,987.26	81.70	98.767		
10,200.00	7,730.00	7,779.41	7,569.48	49.48	37.14	-80.06	-8,083.61	3,240.20	7,969.83	7,888.27	81.56	97.713		
10,300.00	7,730.00	7,781.36	7,571.42	49.35	37.14	-80.17	-8,083.64	3,240.32	7,870.72	7,789.30	81.43	96.658		
10,400.00	7,730.00	7,783.29	7,573.35	49.27	37.15	-80.27	-8,083.67	3,240.44	7,771.64	7,690.35	81.29	95.602		
10,500.00	7,730.00	7,785.22	7,575.28	49.26	37.16	-80.37	-8,083.70	3,240.56	7,672.58	7,591.43	81.15	94.545		
10,600.00	7,730.00	7,787.13	7,577.19	49.32	37.16	-80.48	-8,083.73	3,240.68	7,573.55	7,492.54	81.01	93.488		
10,700.00	7,730.00	7,789.04	7,579.09	49.51	37.17	-80.58	-8,083.76	3,240.80	7,474.54	7,393.67	80.87	92.429		
10,800.00	7,730.00	7,790.94	7,580.98	49.83	37.17	-80.68	-8,083.79	3,240.91	7,375.56	7,294.84	80.72	91.369		
10,900.00	7,730.00	7,792.82	7,582.86	50.31	37.18	-80.79	-8,083.82	3,241.03	7,276.60	7,196.03	80.57	90.309		
11,000.00	7,730.00	7,794.70	7,584.74	50.96	37.19	-80.89	-8,083.84	3,241.14	7,177.68	7,097.25	80.43	89.247		
11,100.00	7,730.00	7,796.57	7,586.60	51.75	37.19	-80.99	-8,083.87	3,241.26	7,078.78	6,998.51	80.27	88.184		
11,200.00	7,730.00	7,798.43	7,588.46	52.66	37.20	-81.09	-8,083.90	3,241.37	6,979.91	6,899.80	80.12	87.120		
11,300.00	7,730.00	7,800.27	7,590.30	53.67	37.20	-81.19	-8,083.93	3,241.48	6,881.08	6,801.12	79.96	86.055		
11,400.00	7,730.00	7,802.11	7,592.14	54.75	37.21	-81.29	-8,083.95	3,241.59	6,782.28	6,702.48	79.80	84.988		
11,500.00	7,730.00	7,803.94	7,593.96	55.89	37.22	-81.39	-8,083.98	3,241.70	6,683.52	6,603.88	79.64	83.920		
11,600.00	7,730.00	7,805.77	7,595.78	57.07	37.22	-81.48	-8,084.01	3,241.81	6,584.79	6,505.31	79.48	82.851		
11,700.00	7,730.00	7,807.58	7,597.59	58.30	37.23	-81.58	-8,084.03	3,241.92	6,486.10	6,406.79	79.31	81.780		
11,800.00	7,730.00	7,809.38	7,599.39	59.55	37.23	-81.68	-8,084.06	3,242.03	6,387.45	6,308.31	79.14	80.707		
11,900.00	7,730.00	7,811.17	7,601.18	60.84	37.24	-81.78	-8,084.08	3,242.13	6,288.85	6,209.87	78.97	79.633		
12,000.00	7,730.00	7,812.96	7,602.96	62.15	37.24	-81.87	-8,084.11	3,242.24	6,190.29	6,111.49	78.80	78.557		
12,100.00	7,730.00	7,814.74	7,604.73	63.49	37.25	-81.97	-8,084.14	3,242.35	6,091.77	6,013.14	78.63	77.478		
12,200.00	7,730.00	7,816.50	7,606.50	64.85	37.26	-82.07	-8,084.16	3,242.45	5,993.30	5,914.86	78.45	76.398		
12,300.00	7,730.00	7,818.26	7,608.25	66.22	37.26	-82.16	-8,084.19	3,242.56	5,894.89	5,816.62	78.27	75.315		
12,400.00	7,730.00	7,820.01	7,610.00	67.62	37.27	-82.26	-8,084.21	3,242.66	5,796.53	5,718.44	78.09	74.229		
12,500.00	7,730.00	7,821.75	7,611.74	69.03	37.27	-82.35	-8,084.24	3,242.76	5,698.22	5,620.31	77.91	73.141		
12,600.00	7,730.00	7,823.49	7,613.47	70.45	37.28	-82.44	-8,084.26	3,242.86	5,599.98	5,522.25	77.72	72.049		
12,700.00	7,730.00	7,825.21	7,615.19	71.90	37.28	-82.54	-8,084.28	3,242.96	5,501.79	5,424.26	77.54	70.955		
12,800.00	7,730.00	7,826.93	7,616.91	73.35	37.29	-82.63	-8,084.31	3,243.06	5,403.68	5,326.32	77.35	69.856		
12,900.00	7,730.00	7,828.64	7,618.61	74.81	37.29	-82.72	-8,084.33	3,243.16	5,305.63	5,228.46	77.17	68.754		
13,000.00	7,730.00	7,830.34	7,620.31	76.29	37.30	-82.82	-8,084.36	3,243.26	5,207.66	5,130.68	76.98	67.648		
13,100.00	7,730.00	7,832.03	7,622.00	77.78	37.31	-82.91	-8,084.38	3,243.36	5,109.77	5,032.97	76.80	66.537		
13,200.00	7,730.00	7,833.71	7,623.68	79.28	37.31	-83.00	-8,084.40	3,243.46	5,011.95	4,935.34	76.61	65.420		
13,300.00	7,730.00	7,835.39	7,625.35	80.79	37.32	-83.09	-8,084.43	3,243.55	4,914.23	4,837.80	76.43	64.298		
13,400.00	7,730.00	7,837.06	7,627.02	82.31	37.32	-83.18	-8,084.45	3,243.65	4,816.60	4,740.35	76.25	63.170		
13,500.00	7,730.00	7,838.72	7,628.67	83.84	37.33	-83.27	-8,084.47	3,243.75	4,719.07	4,643.00	76.07	62.036		
13,600.00	7,730.00	7,840.37	7,630.32	85.37	37.33	-83.36	-8,084.50	3,243.84	4,621.64	4,545.74	75.90	60.894		
13,700.00	7,730.00	7,842.01	7,631.96	86.92	37.34	-83.45	-8,084.52	3,243.93	4,524.32	4,448.59	75.73	59.744		
13,800.00	7,730.00	7,843.65	7,633.60	88.47	37.34	-83.54	-8,084.54	3,244.03	4,427.13	4,351.56	75.57	58.585		
13,900.00	7,730.00	7,845.28	7,635.22	90.03	37.35	-83.63	-8,084.56	3,244.12	4,330.06	4,254.64	75.42	57.416		
14,000.00	7,730.00	7,846.90	7,636.84	91.59	37.35	-83.72	-8,084.59	3,244.21	4,233.12	4,157.85	75.27	56.237		
14,100.00	7,730.00	7,848.51	7,638.45	93.16	37.36	-83.80	-8,084.61	3,244.30	4,136.34	4,061.19	75.14	55.046		
14,200.00	7,730.00	7,850.12	7,640.05	94.74	37.36	-83.89	-8,084.63	3,244.40	4,039.70	3,964.68	75.03	53.842		
14,300.00	7,730.00	7,851.72	7,641.65	96.33	37.37	-83.98	-8,084.65	3,244.49	3,943.24	3,868.31	74.93	52.624		
14,400.00	7,730.00	7,853.31	7,643.24	97.92	37.37	-84.06	-8,084.67	3,244.58	3,846.95	3,772.10	74.86	51.392		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,500.00	7,730.00	7,854.89	7,644.82	99.51	37.38	-84.15	-8,084.70	3,244.66	3,750.86	3,676.06	74.80	50.142		
14,600.00	7,730.00	7,856.47	7,646.39	101.11	37.38	-84.24	-8,084.72	3,244.75	3,654.98	3,580.20	74.78	48.875		
14,700.00	7,730.00	7,858.03	7,647.96	102.72	37.39	-84.32	-8,084.74	3,244.84	3,559.33	3,484.53	74.79	47.588		
14,800.00	7,730.00	7,859.59	7,649.52	104.33	37.39	-84.41	-8,084.76	3,244.93	3,463.92	3,389.07	74.85	46.280		
14,900.00	7,730.00	7,861.15	7,651.07	105.94	37.40	-84.49	-8,084.78	3,245.01	3,368.77	3,293.83	74.94	44.950		
15,000.00	7,730.00	7,862.70	7,652.61	107.56	37.40	-84.58	-8,084.80	3,245.10	3,273.91	3,198.82	75.10	43.596		
15,100.00	7,730.00	7,864.24	7,654.15	109.18	37.41	-84.66	-8,084.82	3,245.19	3,179.37	3,104.06	75.31	42.217		
15,200.00	7,730.00	7,865.77	7,655.68	110.81	37.41	-84.74	-8,084.84	3,245.27	3,085.17	3,009.58	75.60	40.811		
15,300.00	7,730.00	7,867.29	7,657.20	112.44	37.42	-84.83	-8,084.86	3,245.36	2,991.35	2,915.39	75.96	39.378		
15,400.00	7,730.00	7,868.81	7,658.72	114.08	37.42	-84.91	-8,084.88	3,245.44	2,897.94	2,821.51	76.43	37.917		
15,500.00	7,730.00	7,870.33	7,660.23	115.72	37.43	-84.99	-8,084.90	3,245.52	2,804.99	2,727.99	77.00	36.429		
15,600.00	7,730.00	7,871.83	7,661.73	117.36	37.43	-85.07	-8,084.92	3,245.61	2,712.53	2,634.84	77.69	34.913		
15,700.00	7,730.00	7,873.33	7,663.23	119.00	37.44	-85.15	-8,084.94	3,245.69	2,620.63	2,542.10	78.53	33.371		
15,800.00	7,730.00	7,874.82	7,664.72	120.65	37.44	-85.24	-8,084.96	3,245.77	2,529.34	2,449.82	79.52	31.806		
15,900.00	7,730.00	7,876.31	7,666.20	122.30	37.45	-85.32	-8,084.98	3,245.85	2,438.73	2,358.03	80.70	30.220		
16,000.00	7,730.00	7,877.78	7,667.67	123.96	37.45	-85.40	-8,085.00	3,245.93	2,348.89	2,266.81	82.08	28.618		
16,100.00	7,730.00	7,879.25	7,669.14	125.61	37.46	-85.48	-8,085.02	3,246.01	2,259.90	2,176.21	83.68	27.005		
16,200.00	7,730.00	7,880.72	7,670.61	127.27	37.46	-85.56	-8,085.04	3,246.09	2,171.86	2,086.32	85.54	25.389		
16,300.00	7,730.00	7,882.18	7,672.06	128.94	37.47	-85.64	-8,085.06	3,246.17	2,084.91	1,997.22	87.69	23.776		
16,400.00	7,730.00	7,883.63	7,673.51	130.60	37.47	-85.72	-8,085.08	3,246.25	1,999.17	1,909.02	90.15	22.176		
16,500.00	7,730.00	7,885.08	7,674.95	132.27	37.47	-85.79	-8,085.10	3,246.33	1,914.82	1,821.86	92.96	20.598		
16,600.00	7,730.00	7,886.51	7,676.39	133.94	37.48	-85.87	-8,085.12	3,246.40	1,832.04	1,735.88	96.15	19.053		
16,700.00	7,730.00	7,887.95	7,677.82	135.61	37.48	-85.95	-8,085.13	3,246.48	1,751.05	1,651.28	99.77	17.551		
16,800.00	7,730.00	7,889.37	7,679.25	137.28	37.49	-86.03	-8,085.15	3,246.56	1,672.13	1,568.29	103.84	16.102		
16,900.00	7,730.00	7,890.79	7,680.66	138.96	37.49	-86.11	-8,085.17	3,246.63	1,595.57	1,487.16	108.41	14.718		
17,000.00	7,730.00	7,892.21	7,682.08	140.64	37.50	-86.18	-8,085.19	3,246.71	1,521.73	1,408.23	113.50	13.407		
17,100.00	7,730.00	7,893.61	7,683.48	142.32	37.50	-86.26	-8,085.21	3,246.78	1,451.03	1,331.89	119.14	12.179		
17,200.00	7,730.00	7,895.02	7,684.88	144.00	37.51	-86.34	-8,085.22	3,246.86	1,383.95	1,258.60	125.34	11.041		
17,300.00	7,730.00	7,896.41	7,686.27	145.69	37.51	-86.41	-8,085.24	3,246.93	1,321.03	1,188.93	132.09	10.001		
17,400.00	7,730.00	7,897.80	7,687.66	147.37	37.52	-86.49	-8,085.26	3,247.00	1,262.90	1,123.55	139.35	9.063		
17,500.00	7,730.00	7,899.18	7,689.04	149.06	37.52	-86.56	-8,085.28	3,247.08	1,210.26	1,063.23	147.03	8.231		
17,600.00	7,730.00	7,900.56	7,690.42	150.75	37.52	-86.64	-8,085.30	3,247.15	1,163.84	1,008.84	155.00	7.508		
17,700.00	7,730.00	7,901.93	7,691.79	152.44	37.53	-86.71	-8,085.31	3,247.22	1,124.42	961.36	163.06	6.896		
17,800.00	7,730.00	7,903.30	7,693.15	154.13	37.53	-86.79	-8,085.33	3,247.29	1,092.76	921.81	170.95	6.392		
17,900.00	7,730.00	7,904.66	7,694.51	155.83	37.54	-86.86	-8,085.35	3,247.36	1,069.54	891.18	178.36	5.997		
18,000.00	7,730.00	7,906.01	7,695.86	157.52	37.54	-86.94	-8,085.36	3,247.44	1,055.32	870.34	184.98	5.705		
18,100.00	7,730.00	7,907.36	7,697.20	159.22	37.55	-87.01	-8,085.38	3,247.51	1,050.47	859.96	190.51	5.514		
18,101.09	7,730.00	7,907.37	7,697.22	159.24	37.55	-87.01	-8,085.38	3,247.51	1,050.47	859.91	190.56	5.512 CC, ES		
18,200.00	7,730.00	7,908.70	7,698.54	160.92	37.55	-87.08	-8,085.40	3,247.58	1,055.11	860.37	194.74	5.418		
18,300.00	7,730.00	7,910.03	7,699.88	162.62	37.55	-87.16	-8,085.41	3,247.64	1,069.13	871.56	197.58	5.411 SF		
18,400.00	7,730.00	7,911.37	7,701.21	164.32	37.56	-87.23	-8,085.43	3,247.71	1,092.16	893.15	199.02	5.488		
18,426.22	7,730.00	7,911.71	7,701.55	164.76	37.56	-87.25	-8,085.44	3,247.73	1,099.63	900.45	199.18	5.521		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	11.26	11.26	0.00	0.01	163.21	-7,164.00	2,161.97	7,483.13					
100.00	100.00	64.00	64.00	0.13	0.13	163.21	-7,164.18	2,162.25	7,483.59	7,483.33	0.27	N/A		
200.00	200.00	119.33	119.32	0.49	0.33	163.20	-7,164.56	2,163.06	7,484.67	7,483.84	0.82	9,107.592		
300.00	300.00	178.18	178.15	0.85	0.54	163.19	-7,165.15	2,164.48	7,486.32	7,484.93	1.39	5,377.669		
400.00	400.00	227.00	226.94	1.21	0.72	163.18	-7,165.78	2,165.98	7,488.52	7,486.59	1.93	3,887.072		
500.00	500.00	264.66	264.56	1.57	0.86	163.17	-7,166.45	2,167.54	7,491.49	7,489.07	2.42	3,092.544		
600.00	600.00	318.00	317.79	1.93	1.05	163.15	-7,167.83	2,170.72	7,495.49	7,492.51	2.97	2,519.890		
700.00	700.00	318.00	317.79	2.29	1.05	163.15	-7,167.83	2,170.72	7,500.21	7,496.88	3.33	2,250.317		
800.00	800.00	318.00	317.79	2.64	1.05	163.15	-7,167.83	2,170.72	7,506.26	7,502.57	3.69	2,033.476		
900.00	900.00	373.59	373.17	3.00	1.27	163.13	-7,170.08	2,175.02	7,512.79	7,508.54	4.25	1,766.063		
1,000.00	1,000.00	410.00	409.37	3.36	1.41	163.11	-7,172.16	2,178.26	7,520.64	7,515.90	4.74	1,585.150		
1,100.00	1,100.00	410.00	409.37	3.72	1.41	163.11	-7,172.16	2,178.26	7,529.45	7,524.35	5.10	1,476.597		
1,200.00	1,200.00	453.29	452.36	4.08	1.58	163.08	-7,175.24	2,182.27	7,539.15	7,533.53	5.62	1,342.473		
1,300.00	1,299.98	502.00	500.69	4.43	1.77	115.74	-7,179.49	2,186.66	7,550.66	7,544.51	6.15	1,227.913		
1,400.00	1,399.84	502.00	500.69	4.79	1.77	115.49	-7,179.49	2,186.66	7,564.45	7,557.95	6.50	1,164.268		
1,500.00	1,499.45	541.39	539.72	5.15	1.94	115.20	-7,183.52	2,190.10	7,580.67	7,573.68	7.00	1,083.604		
1,600.00	1,598.70	594.00	591.78	5.51	2.16	114.89	-7,189.73	2,194.51	7,599.39	7,591.84	7.55	1,006.860		
1,700.00	1,697.47	594.00	591.78	5.89	2.16	114.50	-7,189.73	2,194.51	7,620.21	7,612.30	7.91	963.692		
1,800.00	1,795.62	641.59	638.80	6.28	2.36	114.12	-7,196.08	2,198.17	7,643.33	7,634.87	8.46	903.683		
1,900.00	1,893.06	686.00	682.64	6.69	2.55	113.70	-7,202.53	2,201.15	7,668.58	7,659.57	9.01	851.073		
2,000.00	1,989.64	686.00	682.64	7.13	2.55	113.18	-7,202.53	2,201.15	7,696.09	7,686.68	9.41	817.609		
2,100.00	2,085.27	724.96	721.02	7.61	2.72	112.68	-7,208.79	2,203.45	7,725.67	7,715.69	9.99	773.690		
2,200.00	2,179.82	778.00	773.08	8.12	2.95	112.19	-7,218.55	2,206.21	7,757.87	7,747.23	10.64	729.200		
2,300.00	2,273.17	778.00	773.08	8.67	2.95	111.53	-7,218.55	2,206.21	7,791.65	7,780.53	11.12	700.810		
2,400.00	2,365.21	778.00	773.08	9.27	2.95	110.80	-7,218.55	2,206.21	7,827.76	7,816.13	11.63	673.143		
2,500.00	2,455.84	778.00	773.08	9.92	2.95	110.02	-7,218.55	2,206.21	7,866.12	7,853.94	12.17	646.183		
2,580.62	2,527.80	816.73	810.94	10.49	3.13	109.50	-7,226.56	2,207.95	7,898.19	7,885.40	12.79	617.447		
2,600.00	2,544.97	820.12	814.24	10.63	3.15	109.51	-7,227.29	2,208.09	7,906.11	7,893.19	12.92	611.912		
2,700.00	2,633.58	855.00	848.18	11.37	3.31	109.64	-7,235.21	2,209.45	7,947.59	7,933.93	13.66	581.785		
2,800.00	2,722.19	855.00	848.18	12.13	3.31	109.64	-7,235.21	2,209.45	7,989.75	7,975.48	14.27	559.749		
2,900.00	2,810.80	855.00	848.18	12.91	3.31	109.64	-7,235.21	2,209.45	8,032.94	8,018.04	14.89	539.313		
3,000.00	2,899.41	898.57	890.42	13.71	3.53	109.80	-7,245.77	2,211.14	8,076.71	8,061.00	15.70	514.313		
3,100.00	2,988.02	942.00	932.37	14.52	3.75	109.96	-7,256.85	2,213.02	8,121.46	8,104.95	16.52	491.712		
3,200.00	3,076.63	942.00	932.37	15.34	3.75	109.96	-7,256.85	2,213.02	8,166.78	8,149.63	17.15	476.211		
3,300.00	3,165.24	968.72	958.11	16.16	3.89	110.06	-7,263.91	2,214.31	8,212.94	8,195.04	17.91	458.677		
3,400.00	3,253.85	995.22	983.59	17.00	4.03	110.15	-7,271.05	2,215.71	8,259.80	8,241.15	18.65	442.814		
3,500.00	3,342.46	1,031.00	1,017.92	17.84	4.22	110.28	-7,280.90	2,217.81	8,307.36	8,287.92	19.44	427.334		
3,600.00	3,431.07	1,054.14	1,040.09	18.69	4.35	110.36	-7,287.38	2,219.28	8,355.56	8,335.39	20.17	414.195		
3,700.00	3,519.68	1,090.02	1,074.41	19.55	4.55	110.49	-7,297.55	2,221.70	8,404.35	8,383.39	20.97	400.871		
3,800.00	3,608.29	1,146.71	1,128.56	20.40	4.88	110.68	-7,313.84	2,225.77	8,453.69	8,431.83	21.86	386.778		
3,900.00	3,696.90	1,204.00	1,183.29	21.26	5.21	110.88	-7,330.31	2,229.60	8,503.20	8,480.45	22.75	373.749		
4,000.00	3,785.51	1,246.57	1,223.93	22.13	5.47	111.03	-7,342.70	2,232.34	8,553.17	8,529.59	23.57	362.833		
4,100.00	3,874.12	1,291.00	1,266.22	23.00	5.73	111.18	-7,356.00	2,235.27	8,603.82	8,579.42	24.40	352.570		
4,200.00	3,962.73	1,291.00	1,266.22	23.87	5.73	111.18	-7,356.00	2,235.27	8,655.03	8,630.02	25.01	346.059		
4,300.00	4,051.34	1,337.37	1,310.24	24.74	6.02	111.34	-7,370.21	2,238.45	8,706.79	8,680.94	25.84	336.886		
4,400.00	4,139.95	1,378.00	1,348.72	25.62	6.27	111.48	-7,382.91	2,241.39	8,759.14	8,732.49	26.65	328.693		
4,500.00	4,228.56	1,400.81	1,370.29	26.49	6.41	111.55	-7,390.14	2,243.13	8,812.02	8,784.66	27.36	322.098		
4,600.00	4,317.17	1,431.68	1,399.43	27.37	6.61	111.65	-7,400.03	2,245.62	8,865.45	8,837.34	28.11	315.433		
4,700.00	4,405.78	1,466.00	1,431.75	28.25	6.83	111.77	-7,411.17	2,248.58	8,919.42	8,890.56	28.87	308.976		
4,800.00	4,494.39	1,466.00	1,431.75	29.13	6.83	111.77	-7,411.17	2,248.58	8,974.02	8,944.58	29.44	304.810		
4,900.00	4,583.00	1,500.48	1,464.13	30.02	7.06	111.88	-7,422.63	2,251.65	9,029.13	8,998.93	30.20	299.009		
5,000.00	4,671.61	1,518.50	1,480.99	30.90	7.19	111.94	-7,428.78	2,253.25	9,084.91	9,054.05	30.86	294.417		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	1,553.00	1,513.16	31.79	7.42	112.05	-7,440.86	2,256.28	9,141.36	9,109.75	31.60	289.245		
5,200.00	4,848.83	1,553.00	1,513.16	32.67	7.42	112.05	-7,440.86	2,256.28	9,198.28	9,166.13	32.15	286.081		
5,300.00	4,937.44	1,553.00	1,513.16	33.56	7.42	112.05	-7,440.86	2,256.28	9,255.93	9,223.24	32.69	283.109		
5,400.00	5,026.05	1,597.87	1,554.82	34.45	7.73	112.19	-7,457.10	2,260.05	9,313.93	9,280.45	33.49	278.142		
5,500.00	5,114.66	1,640.00	1,593.77	35.34	8.03	112.33	-7,472.82	2,263.31	9,372.65	9,338.39	34.26	273.578		
5,600.00	5,203.27	1,640.00	1,593.77	36.23	8.03	112.33	-7,472.82	2,263.31	9,431.74	9,396.96	34.78	271.160		
5,700.00	5,291.88	1,670.88	1,622.24	37.12	8.25	112.43	-7,484.59	2,265.56	9,491.40	9,455.91	35.48	267.502		
5,800.00	5,380.50	1,700.82	1,649.78	38.01	8.47	112.53	-7,496.13	2,267.65	9,551.50	9,515.33	36.17	264.070		
5,900.00	5,469.11	1,728.00	1,674.74	38.90	8.67	112.62	-7,506.72	2,269.47	9,612.05	9,575.21	36.84	260.927		
6,000.00	5,557.72	2,470.49	2,366.09	39.79	13.90	114.96	-7,772.04	2,318.19	9,668.48	9,626.75	41.73	231.681		
6,100.00	5,646.33	2,682.31	2,566.33	40.68	15.30	115.60	-7,840.39	2,328.15	9,723.86	9,680.40	43.47	223.715		
6,200.00	5,734.94	2,688.00	2,571.72	41.58	15.34	115.62	-7,842.20	2,328.36	9,779.07	9,735.04	44.03	222.085		
6,300.00	5,823.55	2,737.48	2,618.53	42.47	15.66	115.77	-7,858.07	2,330.58	9,834.62	9,789.78	44.85	219.299		
6,400.00	5,912.16	2,775.00	2,653.91	43.36	15.91	115.88	-7,870.34	2,332.88	9,890.78	9,845.19	45.59	216.964		
6,500.00	6,000.77	2,819.86	2,696.14	44.26	16.22	116.01	-7,885.13	2,336.03	9,947.33	9,900.96	46.37	214.513		
6,600.00	7,730.00	7,992.40	7,712.80	53.82	39.77	-81.49	-8,783.74	2,457.91	9,905.68	9,826.66	79.01	125.366		
9,000.00	7,730.00	7,992.65	7,713.05	53.33	39.77	-81.54	-8,783.74	2,457.91	9,805.71	9,726.73	78.98	124.147		
9,100.00	7,730.00	7,992.89	7,713.29	52.87	39.77	-81.59	-8,783.74	2,457.92	9,705.75	9,626.79	78.95	122.928		
9,200.00	7,730.00	7,993.14	7,713.54	52.44	39.77	-81.64	-8,783.75	2,457.92	9,605.79	9,526.86	78.93	121.708		
9,300.00	7,730.00	7,993.39	7,713.79	52.03	39.77	-81.70	-8,783.75	2,457.93	9,505.82	9,426.93	78.90	120.486		
9,400.00	7,730.00	7,993.64	7,714.03	51.65	39.77	-81.75	-8,783.75	2,457.94	9,405.86	9,327.00	78.87	119.264		
9,500.00	7,730.00	7,993.89	7,714.28	51.29	39.77	-81.80	-8,783.75	2,457.94	9,305.90	9,227.07	78.84	118.041		
9,600.00	7,730.00	7,994.14	7,714.54	50.95	39.77	-81.86	-8,783.75	2,457.95	9,205.94	9,127.14	78.81	116.817		
9,700.00	7,730.00	7,994.39	7,714.79	50.64	39.77	-81.91	-8,783.75	2,457.96	9,105.99	9,027.21	78.78	115.592		
9,800.00	7,730.00	7,994.64	7,715.04	50.35	39.77	-81.97	-8,783.75	2,457.96	9,006.03	8,927.28	78.75	114.366		
9,900.00	7,730.00	7,994.90	7,715.30	50.09	39.77	-82.02	-8,783.75	2,457.97	8,906.07	8,827.35	78.72	113.139		
10,000.00	7,730.00	7,995.15	7,715.55	49.86	39.78	-82.08	-8,783.75	2,457.97	8,806.12	8,727.43	78.69	111.912		
10,100.00	7,730.00	7,995.41	7,715.81	49.65	39.78	-82.13	-8,783.75	2,457.98	8,706.16	8,627.50	78.66	110.684		
10,200.00	7,730.00	7,995.67	7,716.07	49.48	39.78	-82.19	-8,783.75	2,457.99	8,606.21	8,527.58	78.63	109.455		
10,300.00	7,730.00	7,995.93	7,716.33	49.35	39.78	-82.24	-8,783.75	2,457.99	8,506.26	8,427.66	78.60	108.225		
10,400.00	7,730.00	7,996.19	7,716.59	49.27	39.78	-82.30	-8,783.76	2,458.00	8,406.31	8,327.74	78.57	106.995		
10,500.00	7,730.00	7,996.45	7,716.85	49.26	39.78	-82.36	-8,783.76	2,458.01	8,306.36	8,227.82	78.54	105.764		
10,600.00	7,730.00	7,996.72	7,717.11	49.32	39.78	-82.41	-8,783.76	2,458.01	8,206.41	8,127.90	78.51	104.532		
10,700.00	7,730.00	7,996.98	7,717.38	49.51	39.78	-82.47	-8,783.76	2,458.02	8,106.46	8,027.98	78.48	103.300		
10,800.00	7,730.00	7,997.25	7,717.64	49.83	39.78	-82.53	-8,783.76	2,458.03	8,006.51	7,928.07	78.44	102.067		
10,900.00	7,730.00	7,997.51	7,717.91	50.31	39.78	-82.59	-8,783.76	2,458.03	7,906.57	7,828.16	78.41	100.833		
11,000.00	7,730.00	7,997.78	7,718.18	50.96	39.78	-82.64	-8,783.76	2,458.04	7,806.62	7,728.24	78.38	99.599		
11,100.00	7,730.00	7,998.05	7,718.45	51.75	39.78	-82.70	-8,783.76	2,458.05	7,706.68	7,628.33	78.35	98.364		
11,200.00	7,730.00	7,998.32	7,718.72	52.66	39.78	-82.76	-8,783.76	2,458.06	7,606.74	7,528.43	78.32	97.129		
11,300.00	7,730.00	7,998.60	7,718.99	53.67	39.78	-82.82	-8,783.76	2,458.06	7,506.80	7,428.52	78.28	95.893		
11,400.00	7,730.00	7,998.87	7,719.27	54.75	39.78	-82.88	-8,783.77	2,458.07	7,406.87	7,328.62	78.25	94.656		
11,500.00	7,730.00	7,999.14	7,719.54	55.89	39.79	-82.94	-8,783.77	2,458.08	7,306.93	7,228.71	78.22	93.420		
11,600.00	7,730.00	7,999.42	7,719.82	57.07	39.79	-83.00	-8,783.77	2,458.08	7,207.00	7,128.81	78.18	92.182		
11,700.00	7,730.00	7,999.70	7,720.09	58.30	39.79	-83.06	-8,783.77	2,458.09	7,107.06	7,028.92	78.15	90.945		
11,800.00	7,730.00	7,999.98	7,720.37	59.55	39.79	-83.12	-8,783.77	2,458.10	7,007.13	6,929.02	78.11	89.706		
11,900.00	7,730.00	8,000.26	7,720.65	60.84	39.79	-83.18	-8,783.77	2,458.11	6,907.21	6,829.13	78.08	88.468		
12,000.00	7,730.00	8,000.54	7,720.94	62.15	39.79	-83.24	-8,783.77	2,458.11	6,807.28	6,729.24	78.04	87.229		
12,100.00	7,730.00	8,000.82	7,721.22	63.49	39.79	-83.30	-8,783.77	2,458.12	6,707.36	6,629.36	78.00	85.990		
12,200.00	7,730.00	8,001.11	7,721.50	64.85	39.79	-83.36	-8,783.77	2,458.13	6,607.44	6,529.47	77.96	84.750		
12,300.00	7,730.00	8,001.39	7,721.79	66.22	39.79	-83.42	-8,783.77	2,458.13	6,507.52	6,429.59	77.92	83.510		
12,400.00	7,730.00	8,001.68	7,722.08	67.62	39.79	-83.49	-8,783.78	2,458.14	6,407.60	6,329.71	77.88	82.270		
12,500.00	7,730.00	8,001.97	7,722.36	69.03	39.79	-83.55	-8,783.78	2,458.15	6,307.69	6,229.84	77.84	81.030		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
12,600.00	7,730.00	8,002.26	7,722.65	70.45	39.79	-83.61	-8,783.78	2,458.16	6,207.77	6,129.97	77.80	79.789		
12,700.00	7,730.00	8,002.55	7,722.95	71.90	39.79	-83.67	-8,783.78	2,458.17	6,107.87	6,030.11	77.76	78.548		
12,800.00	7,730.00	8,002.84	7,723.24	73.35	39.79	-83.74	-8,783.78	2,458.17	6,007.96	5,930.25	77.72	77.307		
12,900.00	7,730.00	8,003.14	7,723.53	74.81	39.80	-83.80	-8,783.78	2,458.18	5,908.06	5,830.39	77.67	76.065		
13,000.00	7,730.00	8,003.43	7,723.83	76.29	39.80	-83.87	-8,783.78	2,458.19	5,808.16	5,730.54	77.62	74.824		
13,100.00	7,730.00	8,003.73	7,724.13	77.78	39.80	-83.93	-8,783.78	2,458.20	5,708.27	5,630.69	77.58	73.582		
13,200.00	7,730.00	8,004.03	7,724.43	79.28	39.80	-83.99	-8,783.78	2,458.21	5,608.37	5,530.85	77.53	72.340		
13,300.00	7,730.00	8,004.33	7,724.73	80.79	39.80	-84.06	-8,783.79	2,458.21	5,508.49	5,431.01	77.48	71.098		
13,400.00	7,730.00	8,004.63	7,725.03	82.31	39.80	-84.13	-8,783.79	2,458.22	5,408.60	5,331.18	77.43	69.856		
13,500.00	7,730.00	8,004.94	7,725.33	83.84	39.80	-84.19	-8,783.79	2,458.23	5,308.72	5,231.35	77.37	68.614		
13,600.00	7,730.00	8,005.24	7,725.64	85.37	39.80	-84.26	-8,783.79	2,458.24	5,208.85	5,131.53	77.32	67.371		
13,700.00	7,730.00	8,005.55	7,725.94	86.92	39.80	-84.32	-8,783.79	2,458.25	5,108.98	5,031.72	77.26	66.129		
13,800.00	7,730.00	8,005.86	7,726.25	88.47	39.80	-84.39	-8,783.79	2,458.25	5,009.12	4,931.92	77.20	64.886		
13,900.00	7,730.00	8,006.17	7,726.56	90.03	39.80	-84.46	-8,783.79	2,458.26	4,909.26	4,832.12	77.14	63.643		
14,000.00	7,730.00	8,006.48	7,726.87	91.59	39.80	-84.53	-8,783.79	2,458.27	4,809.40	4,732.33	77.07	62.401		
14,100.00	7,730.00	8,006.79	7,727.19	93.16	39.80	-84.59	-8,783.79	2,458.28	4,709.56	4,632.55	77.01	61.158		
14,200.00	7,730.00	8,007.11	7,727.50	94.74	39.81	-84.66	-8,783.80	2,458.29	4,609.72	4,532.78	76.94	59.915		
14,300.00	7,730.00	8,007.42	7,727.82	96.33	39.81	-84.73	-8,783.80	2,458.30	4,509.88	4,433.02	76.87	58.672		
14,400.00	7,730.00	8,007.74	7,728.13	97.92	39.81	-84.80	-8,783.80	2,458.31	4,410.06	4,333.27	76.79	57.429		
14,500.00	7,730.00	8,008.06	7,728.45	99.51	39.81	-84.87	-8,783.80	2,458.31	4,310.24	4,233.53	76.71	56.186		
14,600.00	7,730.00	8,008.38	7,728.78	101.11	39.81	-84.94	-8,783.80	2,458.32	4,210.43	4,133.80	76.63	54.943		
14,700.00	7,730.00	8,008.71	7,729.10	102.72	39.81	-85.01	-8,783.80	2,458.33	4,110.63	4,034.08	76.55	53.699		
14,800.00	7,730.00	8,009.03	7,729.42	104.33	39.81	-85.08	-8,783.80	2,458.34	4,010.84	3,934.38	76.46	52.456		
14,900.00	7,730.00	8,009.36	7,729.75	105.94	39.81	-85.15	-8,783.80	2,458.35	3,911.06	3,834.69	76.37	51.212		
15,000.00	7,730.00	8,009.68	7,730.08	107.56	39.81	-85.22	-8,783.81	2,458.36	3,811.30	3,735.02	76.27	49.968		
15,100.00	7,730.00	8,010.01	7,730.41	109.18	39.81	-85.29	-8,783.81	2,458.37	3,711.54	3,635.37	76.17	48.724		
15,200.00	7,730.00	8,010.35	7,730.74	110.81	39.81	-85.37	-8,783.81	2,458.38	3,611.80	3,535.73	76.07	47.480		
15,300.00	7,730.00	8,010.68	7,731.07	112.44	39.81	-85.44	-8,783.81	2,458.39	3,512.07	3,436.11	75.96	46.235		
15,400.00	7,730.00	8,011.01	7,731.41	114.08	39.82	-85.51	-8,783.81	2,458.40	3,412.36	3,336.52	75.85	44.990		
15,500.00	7,730.00	8,011.35	7,731.74	115.72	39.82	-85.58	-8,783.81	2,458.41	3,312.67	3,236.94	75.73	43.745		
15,600.00	7,730.00	8,011.69	7,732.08	117.36	39.82	-85.66	-8,783.81	2,458.42	3,213.00	3,137.39	75.60	42.498		
15,700.00	7,730.00	8,012.03	7,732.42	119.00	39.82	-85.73	-8,783.82	2,458.43	3,113.34	3,037.87	75.47	41.251		
15,800.00	7,730.00	8,012.37	7,732.77	120.65	39.82	-85.81	-8,783.82	2,458.44	3,013.71	2,938.38	75.34	40.004		
15,900.00	7,730.00	8,012.72	7,733.11	122.30	39.82	-85.88	-8,783.82	2,458.45	2,914.11	2,838.91	75.19	38.755		
16,000.00	7,730.00	8,013.06	7,733.46	123.96	39.82	-85.96	-8,783.82	2,458.46	2,814.53	2,739.48	75.04	37.505		
16,100.00	7,730.00	8,013.41	7,733.80	125.61	39.82	-86.03	-8,783.82	2,458.46	2,714.98	2,640.09	74.89	36.253		
16,200.00	7,730.00	8,013.76	7,734.15	127.27	39.82	-86.11	-8,783.82	2,458.47	2,615.47	2,540.74	74.73	35.000		
16,300.00	7,730.00	8,014.11	7,734.51	128.94	39.82	-86.19	-8,783.82	2,458.49	2,516.00	2,441.44	74.56	33.744		
16,400.00	7,730.00	8,014.47	7,734.86	130.60	39.82	-86.26	-8,783.83	2,458.50	2,416.57	2,342.18	74.39	32.486		
16,500.00	7,730.00	8,014.82	7,735.21	132.27	39.82	-86.34	-8,783.83	2,458.51	2,317.19	2,242.98	74.21	31.225		
16,600.00	7,730.00	8,015.18	7,735.57	133.94	39.83	-86.42	-8,783.83	2,458.52	2,217.86	2,143.83	74.03	29.959		
16,700.00	7,730.00	8,015.54	7,735.93	135.61	39.83	-86.50	-8,783.83	2,458.53	2,118.60	2,044.75	73.85	28.689		
16,800.00	7,730.00	8,015.90	7,736.29	137.28	39.83	-86.58	-8,783.83	2,458.54	2,019.41	1,945.75	73.66	27.414		
16,900.00	7,730.00	8,016.27	7,736.66	138.96	39.83	-86.65	-8,783.83	2,458.55	1,920.31	1,846.82	73.49	26.131		
17,000.00	7,730.00	8,016.63	7,737.02	140.64	39.83	-86.73	-8,783.83	2,458.56	1,821.30	1,747.98	73.32	24.840		
17,100.00	7,730.00	8,017.00	7,737.39	142.32	39.83	-86.81	-8,783.84	2,458.57	1,722.41	1,649.23	73.18	23.538		
17,200.00	7,730.00	8,017.37	7,737.76	144.00	39.83	-86.89	-8,783.84	2,458.58	1,623.65	1,550.59	73.06	22.223		
17,300.00	7,730.00	8,017.74	7,738.13	145.69	39.83	-86.98	-8,783.84	2,458.59	1,525.06	1,452.06	73.00	20.892		
17,400.00	7,730.00	8,018.12	7,738.51	147.37	39.83	-87.06	-8,783.84	2,458.60	1,426.66	1,353.65	73.01	19.541		
17,500.00	7,730.00	8,018.49	7,738.88	149.06	39.83	-87.14	-8,783.84	2,458.61	1,328.50	1,255.37	73.13	18.166		
17,600.00	7,730.00	8,018.87	7,739.26	150.75	39.83	-87.22	-8,783.84	2,458.62	1,230.63	1,157.21	73.43	16.760		
17,700.00	7,730.00	8,019.25	7,739.64	152.44	39.84	-87.30	-8,783.85	2,458.64	1,133.14	1,059.17	73.97	15.319		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
17,800.00	7,730.00	8,019.63	7,740.02	154.13	39.84	-87.39	-8,783.85	2,458.65	1,036.13	961.23	74.90	13.834	
17,900.00	7,730.00	8,020.02	7,740.41	155.83	39.84	-87.47	-8,783.85	2,458.66	939.74	863.36	76.39	12.303	
18,000.00	7,730.00	8,020.41	7,740.80	157.52	39.84	-87.56	-8,783.85	2,458.67	844.20	765.48	78.72	10.724	
18,100.00	7,730.00	8,020.80	7,741.18	159.22	39.84	-87.64	-8,783.85	2,458.68	749.81	667.48	82.33	9.107	
18,200.00	7,730.00	8,021.19	7,741.58	160.92	39.84	-87.73	-8,783.85	2,458.69	657.09	569.24	87.85	7.479	
18,300.00	7,730.00	8,021.58	7,741.97	162.62	39.84	-87.81	-8,783.86	2,458.70	566.85	470.61	96.25	5.890	
18,400.00	7,730.00	8,021.98	7,742.37	164.32	39.84	-87.90	-8,783.86	2,458.72	480.49	371.59	108.90	4.412	
18,426.22	7,730.00	8,022.08	7,742.47	164.76	39.84	-87.92	-8,783.86	2,458.72	458.77	345.62	113.15	4.055 CC, ES, SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	163.06	-7,118.83	2,167.84	7,441.62					
100.00	100.00	42.94	42.93	0.13	0.08	163.06	-7,118.94	2,168.26	7,442.24	7,442.03	0.20	N/A		
200.00	200.00	74.00	73.98	0.49	0.14	163.05	-7,119.15	2,169.09	7,443.74	7,443.13	0.61	N/A		
300.00	300.00	117.65	117.60	0.85	0.29	163.04	-7,119.70	2,170.71	7,446.07	7,444.95	1.12	6,629.116		
400.00	400.00	166.00	165.89	1.21	0.45	163.03	-7,120.69	2,172.86	7,449.24	7,447.58	1.66	4,495.362		
500.00	500.00	217.61	217.41	1.57	0.64	163.01	-7,121.97	2,175.59	7,453.08	7,450.88	2.21	3,379.597		
600.00	600.00	299.41	299.01	1.93	0.95	162.98	-7,123.98	2,180.96	7,457.35	7,454.48	2.87	2,602.477		
700.00	700.00	349.00	348.43	2.29	1.14	162.95	-7,125.01	2,184.91	7,461.85	7,458.44	3.41	2,189.522		
800.00	800.00	406.64	405.82	2.64	1.36	162.92	-7,126.40	2,190.05	7,466.94	7,462.95	3.98	1,873.928		
900.00	900.00	440.00	439.02	3.00	1.49	162.90	-7,127.49	2,193.25	7,472.93	7,468.46	4.47	1,672.391		
1,000.00	1,000.00	473.46	472.27	3.36	1.63	162.87	-7,128.78	2,196.77	7,479.81	7,474.85	4.96	1,509.230		
1,100.00	1,100.00	503.14	501.70	3.72	1.75	162.85	-7,130.12	2,200.27	7,487.63	7,482.20	5.43	1,379.517		
1,200.00	1,200.00	533.00	531.28	4.08	1.88	162.83	-7,131.64	2,204.14	7,496.38	7,490.48	5.90	1,270.800		
1,300.00	1,299.98	622.84	620.02	4.43	2.26	115.45	-7,136.20	2,217.40	7,506.42	7,499.80	6.62	1,133.896		
1,400.00	1,399.84	670.83	667.27	4.79	2.48	115.19	-7,138.53	2,225.40	7,518.34	7,511.16	7.18	1,047.618		
1,500.00	1,499.45	717.00	712.61	5.15	2.69	114.91	-7,140.88	2,233.79	7,532.43	7,524.70	7.73	974.787		
1,600.00	1,598.70	796.13	789.94	5.51	3.08	114.57	-7,144.64	2,250.12	7,548.45	7,540.00	8.45	893.459		
1,700.00	1,697.47	832.70	825.49	5.89	3.27	114.22	-7,146.27	2,258.54	7,566.41	7,557.42	8.99	841.727		
1,800.00	1,795.62	863.80	855.66	6.28	3.43	113.83	-7,147.87	2,265.96	7,586.64	7,577.12	9.52	797.187		
1,900.00	1,893.06	893.00	883.90	6.69	3.59	113.41	-7,149.56	2,273.15	7,609.10	7,599.05	10.05	757.065		
2,000.00	1,989.64	943.39	932.46	7.13	3.87	112.94	-7,152.64	2,286.24	7,633.64	7,622.91	10.73	711.751		
2,100.00	2,085.27	980.00	967.57	7.61	4.08	112.44	-7,154.88	2,296.38	7,660.13	7,648.78	11.35	674.826		
2,200.00	2,179.82	1,031.00	1,016.18	8.12	4.38	111.91	-7,158.14	2,311.45	7,688.63	7,676.53	12.10	635.507		
2,300.00	2,273.17	1,058.09	1,041.88	8.67	4.55	111.33	-7,159.98	2,319.83	7,719.11	7,706.36	12.75	605.518		
2,400.00	2,365.21	1,097.83	1,079.48	9.27	4.81	110.72	-7,162.88	2,332.36	7,751.52	7,738.01	13.51	573.843		
2,500.00	2,455.84	1,183.00	1,160.11	9.92	5.36	110.13	-7,169.28	2,359.04	7,785.28	7,770.69	14.59	533.661		
2,580.62	2,527.80	1,219.14	1,194.30	10.49	5.60	109.60	-7,172.10	2,370.38	7,813.63	7,798.34	15.30	510.784		
2,600.00	2,544.97	1,225.04	1,199.87	10.63	5.64	109.61	-7,172.58	2,372.27	7,820.62	7,805.16	15.45	506.061		
2,700.00	2,633.58	1,270.00	1,242.17	11.37	5.94	109.67	-7,176.43	2,387.04	7,857.13	7,840.77	16.36	480.178		
2,800.00	2,722.19	1,343.32	1,310.90	12.13	6.45	109.76	-7,182.80	2,411.77	7,894.14	7,876.65	17.49	451.390		
2,900.00	2,810.80	1,552.67	1,506.95	12.91	7.94	109.99	-7,197.87	2,483.58	7,929.70	7,910.12	19.58	405.021		
3,000.00	2,899.41	1,597.13	1,548.48	13.71	8.27	110.03	-7,200.90	2,499.19	7,965.57	7,945.01	20.56	387.425		
3,100.00	2,988.02	1,678.17	1,623.99	14.52	8.87	110.11	-7,206.71	2,528.02	8,001.90	7,980.09	21.82	366.746		
3,200.00	3,076.63	1,767.04	1,706.63	15.34	9.53	110.20	-7,212.85	2,560.13	8,038.20	8,015.05	23.15	347.196		
3,300.00	3,165.24	1,857.16	1,790.41	16.16	10.22	110.28	-7,219.14	2,592.74	8,074.61	8,050.10	24.51	329.471		
3,400.00	3,253.85	1,941.21	1,868.48	17.00	10.86	110.35	-7,224.98	2,623.32	8,111.05	8,085.22	25.83	314.012		
3,500.00	3,342.46	2,000.43	1,923.43	17.84	11.31	110.41	-7,229.17	2,645.02	8,147.73	8,120.75	26.97	302.072		
3,600.00	3,431.07	2,056.00	1,974.93	18.69	11.74	110.45	-7,233.42	2,665.43	8,184.89	8,156.80	28.09	291.369		
3,700.00	3,519.68	2,138.92	2,051.81	19.55	12.39	110.53	-7,240.03	2,695.78	8,222.36	8,192.94	29.42	279.456		
3,800.00	3,608.29	2,234.14	2,140.32	20.40	13.12	110.61	-7,247.78	2,730.05	8,259.80	8,228.96	30.85	267.775		
3,900.00	3,696.90	2,273.59	2,177.02	21.26	13.42	110.65	-7,251.18	2,744.09	8,297.55	8,265.71	31.84	260.611		
4,000.00	3,785.51	2,317.00	2,217.38	22.13	13.75	110.69	-7,255.17	2,759.58	8,335.87	8,303.01	32.86	253.670		
4,100.00	3,874.12	2,468.21	2,357.78	23.00	14.92	110.83	-7,268.49	2,814.13	8,373.90	8,339.16	34.73	241.089		
4,200.00	3,962.73	2,520.37	2,406.16	23.87	15.33	110.88	-7,273.01	2,833.08	8,412.01	8,376.18	35.83	234.768		
4,300.00	4,051.34	2,579.00	2,460.68	24.74	15.78	110.94	-7,278.74	2,853.88	8,450.75	8,413.78	36.98	228.547		
4,400.00	4,139.95	2,678.50	2,553.28	25.62	16.54	111.03	-7,288.63	2,888.91	8,489.68	8,451.25	38.44	220.881		
4,500.00	4,228.56	2,738.04	2,608.62	26.49	17.00	111.09	-7,294.43	2,910.09	8,528.56	8,488.97	39.59	215.438		
4,600.00	4,317.17	2,840.23	2,703.37	27.37	17.80	111.18	-7,304.39	2,947.06	8,567.62	8,526.53	41.09	208.517		
4,700.00	4,405.78	2,918.60	2,775.83	28.25	18.42	111.24	-7,311.81	2,975.97	8,606.65	8,564.24	42.41	202.942		
4,800.00	4,494.39	3,074.01	2,920.12	29.13	19.64	111.38	-7,326.48	3,031.79	8,645.36	8,601.02	44.35	194.954		
4,900.00	4,583.00	3,150.79	2,991.26	30.02	20.24	111.44	-7,333.33	3,059.84	8,683.84	8,638.18	45.65	190.207		
5,000.00	4,671.61	3,264.20	3,096.09	30.90	21.14	111.53	-7,343.44	3,101.92	8,722.50	8,675.23	47.27	184.508		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	3,331.19	3,158.23	31.79	21.67	111.59	-7,349.46	3,126.22	8,760.99	8,712.48	48.51	180.619		
5,200.00	4,848.83	3,384.36	3,207.36	32.67	22.10	111.63	-7,354.31	3,145.96	8,799.85	8,750.23	49.62	177.343		
5,300.00	4,937.44	3,431.53	3,250.94	33.56	22.47	111.66	-7,358.87	3,163.42	8,839.16	8,788.48	50.68	174.396		
5,400.00	5,026.05	3,480.84	3,296.53	34.45	22.87	111.70	-7,363.94	3,181.51	8,878.94	8,827.18	51.76	171.541		
5,500.00	5,114.66	3,530.00	3,385.07	35.34	39.02	111.78	-7,374.21	3,216.40	8,919.07	8,852.02	67.05	133.020		
5,600.00	5,203.27	3,576.08	3,550.79	36.23	25.08	111.91	-7,391.21	3,283.29	8,958.05	8,902.62	55.43	161.603		
5,700.00	5,291.88	3,802.00	3,593.04	37.12	25.45	111.95	-7,395.49	3,300.75	8,997.36	8,940.87	56.49	159.270		
5,800.00	5,380.50	3,802.00	3,593.04	38.01	25.45	111.95	-7,395.49	3,300.75	9,037.37	8,980.23	57.14	158.162		
5,900.00	5,469.11	5,360.38	5,091.86	38.90	34.50	114.14	-7,482.64	3,690.57	9,063.67	8,995.93	67.75	133.784		
6,000.00	5,557.72	5,681.71	5,412.63	39.79	35.32	114.95	-7,489.93	3,705.67	9,089.14	9,019.70	69.44	130.886		
6,100.00	5,646.33	5,814.05	5,544.95	40.68	35.60	115.30	-7,491.74	3,706.69	9,112.43	9,041.89	70.54	129.189		
6,200.00	5,734.94	5,934.03	5,664.92	41.58	35.84	115.62	-7,493.08	3,707.36	9,135.68	9,064.09	71.59	127.606		
6,300.00	5,823.55	6,098.45	5,829.34	42.47	36.17	116.06	-7,493.95	3,707.89	9,158.55	9,085.80	72.75	125.893		
6,400.00	5,912.16	6,183.52	5,914.41	43.36	36.33	116.29	-7,494.21	3,707.78	9,181.30	9,107.59	73.72	124.551		
6,500.00	6,000.77	6,330.95	6,061.84	44.26	36.62	116.69	-7,494.40	3,707.03	9,204.07	9,129.26	74.81	123.025		
6,600.00	6,089.38	6,489.79	6,220.67	45.15	36.92	117.11	-7,493.05	3,706.53	9,226.09	9,150.15	75.94	121.491		
6,700.00	6,177.99	6,599.08	6,329.95	46.05	37.14	117.39	-7,491.66	3,706.24	9,248.00	9,171.03	76.96	120.161		
6,800.00	6,266.60	6,713.98	6,444.84	46.94	37.38	117.69	-7,489.87	3,706.12	9,269.85	9,191.85	78.00	118.838		
6,900.00	6,355.21	6,840.15	6,570.98	47.84	37.64	118.01	-7,487.41	3,706.33	9,291.61	9,212.53	79.07	117.507		
7,000.00	6,443.82	6,977.01	6,707.80	48.74	37.94	118.36	-7,484.04	3,706.72	9,313.09	9,232.93	80.17	116.172		
7,100.00	6,532.43	7,038.76	6,769.53	49.63	38.08	118.51	-7,482.49	3,707.16	9,334.74	9,253.64	81.09	115.109		
7,200.00	6,621.04	7,115.37	6,846.11	50.53	38.25	118.70	-7,480.57	3,707.97	9,356.65	9,274.60	82.05	114.034		
7,300.00	6,709.65	7,203.89	6,934.60	51.42	38.46	118.92	-7,478.37	3,709.17	9,378.79	9,295.75	83.04	112.938		
7,400.00	6,798.26	7,293.11	7,023.78	52.32	38.67	119.14	-7,476.13	3,710.50	9,401.09	9,317.06	84.03	111.871		
7,500.00	6,886.87	7,351.51	7,082.15	53.22	38.81	119.28	-7,474.75	3,711.49	9,423.69	9,338.74	84.95	110.935		
7,600.00	6,975.48	7,409.59	7,140.21	54.12	38.95	119.42	-7,473.54	3,712.60	9,446.75	9,360.89	85.86	110.030		
7,656.30	7,025.36	7,442.28	7,172.88	54.62	39.03	119.49	-7,472.94	3,713.28	9,459.92	9,373.56	86.37	109.534		
7,700.00	7,064.54	7,468.00	7,198.60	55.00	39.10	112.56	-7,472.51	3,713.86	9,468.65	9,381.89	86.76	109.139		
7,750.00	7,110.29	7,498.39	7,228.97	55.40	39.18	102.69	-7,472.03	3,714.57	9,474.76	9,387.55	87.20	108.652		
7,800.00	7,156.67	7,529.25	7,259.82	55.75	39.26	90.89	-7,471.60	3,715.33	9,476.70	9,389.06	87.64	108.138		
7,850.00	7,203.34	7,560.29	7,290.85	56.05	39.34	77.96	-7,471.21	3,716.14	9,474.45	9,386.40	88.05	107.605		
7,900.00	7,249.95	7,591.29	7,321.84	56.30	39.42	65.21	-7,470.86	3,716.99	9,468.02	9,379.58	88.44	107.059		
7,950.00	7,296.14	7,622.02	7,352.55	56.50	39.50	53.82	-7,470.57	3,717.87	9,457.46	9,368.66	88.80	106.507		
8,000.00	7,341.56	7,643.00	7,373.52	56.64	39.56	44.29	-7,470.39	3,718.50	9,442.85	9,353.75	89.10	105.982		
8,050.00	7,385.86	7,684.62	7,415.12	56.74	39.67	36.62	-7,470.10	3,719.76	9,424.26	9,334.82	89.44	105.374		
8,100.00	7,428.71	7,715.27	7,445.75	56.79	39.75	30.43	-7,469.93	3,720.69	9,401.83	9,312.12	89.71	104.800		
8,150.00	7,469.77	7,744.67	7,475.14	56.80	39.83	25.38	-7,469.82	3,721.57	9,375.74	9,285.78	89.96	104.226		
8,200.00	7,508.75	7,772.60	7,503.06	56.77	39.91	21.13	-7,469.74	3,722.41	9,346.15	9,255.98	90.17	103.652		
8,250.00	7,545.33	7,798.86	7,529.31	56.70	39.98	17.41	-7,469.70	3,723.19	9,313.28	9,222.93	90.35	103.081		
8,300.00	7,579.25	7,829.87	7,560.31	56.59	40.06	14.01	-7,469.69	3,724.11	9,277.37	9,186.85	90.52	102.490		
8,350.00	7,610.24	7,875.66	7,606.07	56.45	40.19	10.71	-7,469.64	3,725.39	9,238.62	9,147.91	90.71	101.848		
8,400.00	7,638.06	7,916.57	7,646.97	56.28	40.30	7.22	-7,469.54	3,726.47	9,197.32	9,106.46	90.86	101.222		
8,450.00	7,662.52	7,952.33	7,682.73	56.09	40.39	3.22	-7,469.43	3,727.35	9,153.80	9,062.82	90.98	100.615		
8,500.00	7,683.41	7,982.71	7,713.09	55.88	40.47	-1.85	-7,469.30	3,728.05	9,108.38	9,017.32	91.06	100.028		
8,550.00	7,700.59	8,027.68	7,758.05	55.64	40.60	-9.03	-7,469.02	3,729.08	9,061.43	8,970.27	91.16	99.397		
8,600.00	7,713.91	8,070.70	7,801.05	55.39	40.71	-20.45	-7,468.60	3,730.15	9,013.28	8,922.04	91.25	98.778		
8,650.00	7,723.29	8,099.59	7,829.93	55.14	40.79	-39.88	-7,468.22	3,730.93	8,964.35	8,873.07	91.27	98.213		
8,700.00	7,728.64	8,114.65	7,844.98	54.87	40.83	-69.36	-7,468.00	3,731.34	8,915.03	8,823.78	91.25	97.702		
8,740.83	7,730.00	8,116.98	7,847.31	54.65	40.84	-93.56	-7,467.96	3,731.41	8,874.74	8,783.55	91.19	97.325		
8,800.00	7,730.00	8,114.05	7,844.39	54.33	40.83	-93.45	-7,468.01	3,731.33	8,816.46	8,725.39	91.08	96.803		
8,900.00	7,730.00	8,109.32	7,839.66	53.82	40.82	-93.28	-7,468.08	3,731.19	8,718.01	8,627.12	90.89	95.919		
9,000.00	7,730.00	8,104.83	7,835.17	53.33	40.80	-93.11	-7,468.15	3,731.07	8,619.58	8,528.88	90.70	95.034		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	8,100.57	7,830.91	52.87	40.79	-92.95	-7,468.21	3,730.95	8,521.19	8,430.68	90.51	94.148		
9,200.00	7,730.00	8,096.51	7,826.85	52.44	40.78	-92.80	-7,468.27	3,730.84	8,422.84	8,332.53	90.32	93.260		
9,300.00	7,730.00	8,092.65	7,822.99	52.03	40.77	-92.66	-7,468.32	3,730.74	8,324.53	8,234.41	90.12	92.371		
9,400.00	7,730.00	8,088.96	7,819.31	51.65	40.76	-92.52	-7,468.37	3,730.64	8,226.26	8,136.33	89.92	91.480		
9,500.00	7,730.00	8,085.45	7,815.79	51.29	40.75	-92.39	-7,468.42	3,730.54	8,128.03	8,038.30	89.73	90.588		
9,600.00	7,730.00	8,082.09	7,812.44	50.95	40.74	-92.26	-7,468.46	3,730.45	8,029.84	7,940.32	89.52	89.694		
9,700.00	7,730.00	8,078.87	7,809.23	50.64	40.73	-92.14	-7,468.50	3,730.37	7,931.70	7,842.38	89.32	88.800		
9,800.00	7,730.00	8,075.80	7,806.15	50.35	40.73	-92.03	-7,468.54	3,730.29	7,833.60	7,744.49	89.12	87.903		
9,900.00	7,730.00	8,072.85	7,803.20	50.09	40.72	-91.92	-7,468.57	3,730.21	7,735.55	7,646.64	88.91	87.006		
10,000.00	7,730.00	8,070.02	7,800.38	49.86	40.71	-91.81	-7,468.61	3,730.14	7,637.56	7,548.86	88.70	86.107		
10,100.00	7,730.00	8,067.31	7,797.67	49.65	40.70	-91.71	-7,468.64	3,730.07	7,539.61	7,451.12	88.49	85.206		
10,200.00	7,730.00	8,064.70	7,795.06	49.48	40.70	-91.61	-7,468.67	3,730.00	7,441.72	7,353.45	88.27	84.304		
10,300.00	7,730.00	8,062.20	7,792.55	49.35	40.69	-91.52	-7,468.69	3,729.94	7,343.88	7,255.83	88.06	83.400		
10,400.00	7,730.00	8,059.78	7,790.14	49.27	40.68	-91.43	-7,468.72	3,729.87	7,246.11	7,158.27	87.84	82.495		
10,500.00	7,730.00	8,057.46	7,787.82	49.26	40.68	-91.34	-7,468.75	3,729.82	7,148.39	7,060.78	87.62	81.588		
10,600.00	7,730.00	8,055.22	7,785.58	49.32	40.67	-91.26	-7,468.77	3,729.76	7,050.74	6,963.35	87.39	80.679		
10,700.00	7,730.00	8,053.06	7,783.43	49.51	40.66	-91.18	-7,468.79	3,729.70	6,953.16	6,865.99	87.17	79.768		
10,800.00	7,730.00	8,050.98	7,781.34	49.83	40.66	-91.10	-7,468.81	3,729.65	6,855.64	6,768.70	86.94	78.855		
10,900.00	7,730.00	8,048.97	7,779.33	50.31	40.65	-91.02	-7,468.83	3,729.60	6,758.20	6,671.49	86.71	77.940		
11,000.00	7,730.00	8,047.03	7,777.39	50.96	40.65	-90.95	-7,468.85	3,729.55	6,660.83	6,574.35	86.48	77.023		
11,100.00	7,730.00	8,045.15	7,775.52	51.75	40.64	-90.88	-7,468.87	3,729.51	6,563.54	6,477.30	86.25	76.103		
11,200.00	7,730.00	8,043.34	7,773.70	52.66	40.64	-90.81	-7,468.89	3,729.46	6,466.33	6,380.32	86.01	75.181		
11,300.00	7,730.00	8,041.58	7,771.94	53.67	40.63	-90.75	-7,468.90	3,729.42	6,369.21	6,283.44	85.77	74.256		
11,400.00	7,730.00	8,039.88	7,770.24	54.75	40.63	-90.68	-7,468.92	3,729.38	6,272.18	6,186.65	85.54	73.328		
11,500.00	7,730.00	8,038.23	7,768.60	55.89	40.62	-90.62	-7,468.93	3,729.34	6,175.25	6,089.95	85.30	72.396		
11,600.00	7,730.00	8,036.63	7,767.00	57.07	40.62	-90.56	-7,468.95	3,729.30	6,078.41	5,993.35	85.06	71.461		
11,700.00	7,730.00	8,035.08	7,765.45	58.30	40.62	-90.50	-7,468.96	3,729.26	5,981.68	5,896.86	84.82	70.522		
11,800.00	7,730.00	8,033.58	7,763.95	59.55	40.61	-90.45	-7,468.97	3,729.22	5,885.05	5,800.47	84.58	69.578		
11,900.00	7,730.00	8,032.12	7,762.49	60.84	40.61	-90.39	-7,468.99	3,729.19	5,788.55	5,704.20	84.34	68.631		
12,000.00	7,730.00	8,030.71	7,761.08	62.15	40.60	-90.34	-7,469.00	3,729.15	5,692.16	5,608.05	84.11	67.678		
12,100.00	7,730.00	8,029.33	7,759.70	63.49	40.60	-90.29	-7,469.01	3,729.12	5,595.89	5,512.02	83.87	66.719		
12,200.00	7,730.00	8,027.99	7,758.36	64.85	40.60	-90.24	-7,469.02	3,729.09	5,499.77	5,416.13	83.64	65.755		
12,300.00	7,730.00	8,026.70	7,757.07	66.22	40.59	-90.19	-7,469.03	3,729.06	5,403.78	5,320.37	83.41	64.785		
12,400.00	7,730.00	8,025.43	7,755.80	67.62	40.59	-90.14	-7,469.04	3,729.03	5,307.94	5,224.75	83.19	63.807		
12,500.00	7,730.00	8,024.20	7,754.57	69.03	40.59	-90.10	-7,469.05	3,729.00	5,212.25	5,129.28	82.97	62.822		
12,600.00	7,730.00	8,023.00	7,753.38	70.45	40.58	-90.05	-7,469.06	3,728.97	5,116.73	5,033.97	82.76	61.828		
12,700.00	7,730.00	8,021.84	7,752.21	71.90	40.58	-90.01	-7,469.07	3,728.94	5,021.39	4,938.83	82.55	60.825		
12,800.00	7,730.00	8,020.70	7,751.08	73.35	40.58	-89.97	-7,469.08	3,728.92	4,926.22	4,843.86	82.36	59.812		
12,900.00	7,730.00	8,019.60	7,749.97	74.81	40.57	-89.92	-7,469.08	3,728.89	4,831.26	4,749.08	82.18	58.789		
13,000.00	7,730.00	8,018.52	7,748.89	76.29	40.57	-89.88	-7,469.09	3,728.87	4,736.50	4,654.49	82.01	57.754		
13,100.00	7,730.00	8,017.47	7,747.84	77.78	40.57	-89.84	-7,469.10	3,728.84	4,641.96	4,560.10	81.86	56.705		
13,200.00	7,730.00	8,016.44	7,746.82	79.28	40.57	-89.81	-7,469.11	3,728.82	4,547.65	4,465.93	81.73	55.644		
13,300.00	7,730.00	8,015.44	7,745.82	80.79	40.56	-89.77	-7,469.11	3,728.79	4,453.60	4,371.98	81.62	54.567		
13,400.00	7,730.00	8,014.47	7,744.84	82.31	40.56	-89.73	-7,469.12	3,728.77	4,359.80	4,278.27	81.53	53.474		
13,500.00	7,730.00	8,013.52	7,743.89	83.84	40.56	-89.70	-7,469.13	3,728.75	4,266.29	4,184.82	81.47	52.364		
13,600.00	7,730.00	8,012.59	7,742.96	85.37	40.56	-89.66	-7,469.13	3,728.73	4,173.08	4,091.63	81.45	51.235		
13,700.00	7,730.00	8,011.68	7,742.05	86.92	40.55	-89.63	-7,469.14	3,728.71	4,080.19	3,998.73	81.46	50.087		
13,800.00	7,730.00	8,010.79	7,741.16	88.47	40.55	-89.59	-7,469.15	3,728.69	3,987.65	3,906.13	81.52	48.918		
13,900.00	7,730.00	8,009.92	7,740.30	90.03	40.55	-89.56	-7,469.15	3,728.67	3,895.47	3,813.85	81.62	47.727		
14,000.00	7,730.00	8,009.07	7,739.45	91.59	40.55	-89.53	-7,469.16	3,728.65	3,803.69	3,721.91	81.78	46.513		
14,100.00	7,730.00	8,008.25	7,738.62	93.16	40.54	-89.50	-7,469.16	3,728.63	3,712.33	3,630.34	81.99	45.276		
14,200.00	7,730.00	8,007.43	7,737.81	94.74	40.54	-89.47	-7,469.17	3,728.61	3,621.43	3,539.15	82.28	44.015		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	8,006.64	7,737.02	96.33	40.54	-89.44	-7,469.17	3,728.59	3,531.02	3,448.38	82.64	42.729		
14,400.00	7,730.00	8,005.87	7,736.24	97.92	40.54	-89.41	-7,469.18	3,728.57	3,441.14	3,358.06	83.08	41.419		
14,500.00	7,730.00	8,005.11	7,735.48	99.51	40.53	-89.38	-7,469.18	3,728.56	3,351.83	3,268.22	83.62	40.085		
14,600.00	7,730.00	8,004.36	7,734.74	101.11	40.53	-89.35	-7,469.19	3,728.54	3,263.15	3,178.89	84.26	38.729		
14,700.00	7,730.00	8,003.63	7,734.01	102.72	40.53	-89.33	-7,469.19	3,728.52	3,175.14	3,090.13	85.01	37.351		
14,800.00	7,730.00	8,002.92	7,733.30	104.33	40.53	-89.30	-7,469.19	3,728.51	3,087.85	3,001.97	85.88	35.955		
14,900.00	7,730.00	8,002.22	7,732.60	105.94	40.53	-89.27	-7,469.20	3,728.49	3,001.36	2,914.47	86.89	34.543		
15,000.00	7,730.00	8,001.54	7,731.92	107.56	40.53	-89.25	-7,469.20	3,728.47	2,915.74	2,827.70	88.04	33.117		
15,100.00	7,730.00	8,000.87	7,731.24	109.18	40.52	-89.22	-7,469.21	3,728.46	2,831.06	2,741.70	89.35	31.684		
15,200.00	7,730.00	8,000.25	7,730.63	110.81	40.52	-89.20	-7,469.21	3,728.44	2,747.40	2,656.57	90.83	30.247		
15,300.00	7,730.00	7,999.65	7,730.03	112.44	40.52	-89.18	-7,469.21	3,728.43	2,664.88	2,572.38	92.49	28.811		
15,400.00	7,730.00	7,999.06	7,729.44	114.08	40.52	-89.15	-7,469.22	3,728.42	2,583.58	2,489.23	94.35	27.383		
15,500.00	7,730.00	7,998.47	7,728.85	115.72	40.52	-89.13	-7,469.22	3,728.40	2,503.65	2,407.24	96.41	25.969		
15,600.00	7,730.00	7,997.88	7,728.26	117.36	40.52	-89.11	-7,469.22	3,728.39	2,425.20	2,326.51	98.69	24.574		
15,700.00	7,730.00	7,997.30	7,727.68	119.00	40.51	-89.09	-7,469.23	3,728.38	2,348.39	2,247.20	101.19	23.207		
15,800.00	7,730.00	7,996.73	7,727.10	120.65	40.51	-89.07	-7,469.23	3,728.37	2,273.38	2,169.45	103.94	21.873		
15,900.00	7,730.00	7,996.15	7,726.53	122.30	40.51	-89.04	-7,469.23	3,728.35	2,200.37	2,093.44	106.93	20.578		
16,000.00	7,730.00	7,995.58	7,725.96	123.96	40.51	-89.02	-7,469.23	3,728.34	2,129.54	2,019.37	110.17	19.329		
16,100.00	7,730.00	7,995.01	7,725.39	125.61	40.51	-89.00	-7,469.24	3,728.33	2,061.14	1,947.47	113.67	18.132		
16,200.00	7,730.00	7,994.45	7,724.83	127.27	40.51	-88.98	-7,469.24	3,728.32	1,995.40	1,877.97	117.43	16.992		
16,300.00	7,730.00	7,993.89	7,724.27	128.94	40.50	-88.96	-7,469.24	3,728.30	1,932.61	1,811.16	121.45	15.913		
16,400.00	7,730.00	7,993.33	7,723.71	130.60	40.50	-88.94	-7,469.25	3,728.29	1,873.05	1,747.34	125.70	14.901		
16,500.00	7,730.00	7,992.78	7,723.16	132.27	40.50	-88.92	-7,469.25	3,728.28	1,817.04	1,686.85	130.19	13.957		
16,600.00	7,730.00	7,992.23	7,722.61	133.94	40.50	-88.90	-7,469.25	3,728.27	1,764.93	1,630.05	134.88	13.085		
16,700.00	7,730.00	7,991.68	7,722.06	135.61	40.50	-88.88	-7,469.25	3,728.25	1,717.06	1,577.32	139.74	12.287		
16,800.00	7,730.00	7,991.14	7,721.52	137.28	40.50	-88.86	-7,469.26	3,728.24	1,673.81	1,529.08	144.73	11.565		
16,900.00	7,730.00	7,990.60	7,720.98	138.96	40.50	-88.84	-7,469.26	3,728.23	1,635.54	1,485.75	149.79	10.919		
17,000.00	7,730.00	7,990.06	7,720.44	140.64	40.49	-88.82	-7,469.26	3,728.22	1,602.60	1,447.75	154.84	10.350		
17,100.00	7,730.00	7,989.52	7,719.91	142.32	40.49	-88.80	-7,469.26	3,728.21	1,575.32	1,415.49	159.83	9.856		
17,200.00	7,730.00	7,988.99	7,719.37	144.00	40.49	-88.78	-7,469.27	3,728.19	1,554.02	1,389.36	164.66	9.438		
17,300.00	7,730.00	7,988.47	7,718.85	145.69	40.49	-88.76	-7,469.27	3,728.18	1,538.93	1,369.68	169.25	9.093		
17,400.00	7,730.00	7,987.94	7,718.32	147.37	40.49	-88.74	-7,469.27	3,728.17	1,530.24	1,356.74	173.50	8.820		
17,483.35	7,730.00	7,987.51	7,717.89	148.78	40.49	-88.72	-7,469.27	3,728.16	1,527.97	1,351.23	176.74	8.645 CC		
17,500.00	7,730.00	7,987.42	7,717.80	149.06	40.49	-88.72	-7,469.27	3,728.16	1,528.06	1,350.71	177.35	8.616 ES		
17,600.00	7,730.00	7,986.90	7,717.28	150.75	40.49	-88.70	-7,469.28	3,728.15	1,532.42	1,351.70	180.72	8.480		
17,700.00	7,730.00	7,986.38	7,716.77	152.44	40.48	-88.68	-7,469.28	3,728.14	1,543.25	1,359.69	183.57	8.407		
17,800.00	7,730.00	7,985.87	7,716.25	154.13	40.48	-88.66	-7,469.28	3,728.12	1,560.44	1,374.57	185.87	8.395 SF		
17,900.00	7,730.00	7,985.36	7,715.74	155.83	40.48	-88.64	-7,469.28	3,728.11	1,583.76	1,396.15	187.61	8.442		
18,000.00	7,730.00	7,984.85	7,715.24	157.52	40.48	-88.62	-7,469.29	3,728.10	1,612.95	1,424.14	188.82	8.542		
18,100.00	7,730.00	7,984.35	7,714.73	159.22	40.48	-88.60	-7,469.29	3,728.09	1,647.71	1,458.19	189.52	8.694		
18,200.00	7,730.00	7,983.85	7,714.23	160.92	40.48	-88.58	-7,469.29	3,728.08	1,687.68	1,497.93	189.76	8.894		
18,300.00	7,730.00	7,983.35	7,713.73	162.62	40.48	-88.56	-7,469.29	3,728.07	1,732.51	1,542.93	189.59	9.138		
18,400.00	7,730.00	7,982.86	7,713.24	164.32	40.47	-88.55	-7,469.30	3,728.06	1,781.83	1,592.76	189.07	9.424		
18,426.22	7,730.00	7,982.73	7,713.11	164.76	40.47	-88.54	-7,469.30	3,728.05	1,795.46	1,606.58	188.89	9.505		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	161.77	-5,369.91	1,768.32	5,653.58					
100.00	100.00	50.57	50.57	0.13	0.08	161.78	-5,370.15	1,768.19	5,653.91	5,653.70	0.21	N/A		
200.00	200.00	158.19	158.17	0.49	0.38	161.79	-5,371.60	1,767.20	5,654.93	5,654.05	0.88	6,460.453		
300.00	300.00	253.22	253.19	0.85	0.72	161.80	-5,372.51	1,765.97	5,655.44	5,653.87	1.57	3,592.490		
400.00	400.00	347.38	347.34	1.21	1.06	161.82	-5,373.68	1,764.74	5,656.21	5,653.94	2.27	2,490.193		
500.00	500.00	410.58	410.52	1.57	1.29	161.83	-5,374.73	1,763.63	5,657.27	5,654.41	2.86	1,979.173		
600.00	600.00	456.00	455.90	1.93	1.46	161.85	-5,376.00	1,762.32	5,659.12	5,655.74	3.38	1,673.603		
700.00	700.00	512.29	512.10	2.29	1.67	161.88	-5,378.27	1,760.13	5,661.82	5,657.88	3.95	1,434.660		
800.00	800.00	549.00	548.72	2.64	1.80	161.90	-5,380.20	1,758.39	5,665.49	5,661.05	4.44	1,276.291		
900.00	900.00	602.31	601.84	3.00	2.00	161.94	-5,383.66	1,755.52	5,670.08	5,665.09	5.00	1,134.975		
1,000.00	1,000.00	640.00	639.35	3.36	2.15	161.97	-5,386.58	1,753.30	5,675.71	5,670.21	5.49	1,033.232		
1,100.00	1,100.00	689.33	688.38	3.72	2.34	162.01	-5,390.99	1,750.12	5,682.31	5,676.27	6.04	941.142		
1,200.00	1,200.00	732.00	730.72	4.08	2.51	162.06	-5,395.35	1,747.12	5,689.91	5,683.35	6.56	867.942		
1,300.00	1,299.98	774.60	772.91	4.43	2.69	114.82	-5,400.23	1,743.86	5,699.24	5,692.16	7.07	805.551		
1,400.00	1,399.84	825.00	822.72	4.79	2.89	114.69	-5,406.70	1,739.64	5,711.06	5,703.44	7.62	749.098		
1,500.00	1,499.45	859.95	857.17	5.15	3.05	114.50	-5,411.61	1,736.45	5,725.30	5,717.18	8.12	705.291		
1,600.00	1,598.70	919.00	915.21	5.51	3.30	114.35	-5,420.68	1,730.47	5,741.98	5,733.26	8.72	658.727		
1,700.00	1,697.47	954.54	950.04	5.89	3.47	114.11	-5,426.54	1,726.51	5,760.91	5,751.68	9.23	624.108		
1,800.00	1,795.62	1,012.00	1,006.19	6.28	3.74	113.91	-5,436.54	1,719.55	5,782.10	5,772.25	9.85	586.899		
1,900.00	1,893.06	1,048.16	1,041.41	6.69	3.91	113.61	-5,443.22	1,714.78	5,805.57	5,795.16	10.40	558.085		
2,000.00	1,989.64	1,106.00	1,097.48	7.13	4.20	113.37	-5,454.71	1,706.42	5,831.48	5,820.41	11.07	526.746		
2,100.00	2,085.27	1,167.31	1,156.71	7.61	4.52	113.13	-5,467.36	1,696.90	5,859.45	5,847.66	11.79	496.967		
2,200.00	2,179.82	1,218.39	1,206.02	8.12	4.79	112.81	-5,477.87	1,688.71	5,889.12	5,876.63	12.49	471.580		
2,300.00	2,273.17	1,252.59	1,238.99	8.67	4.97	112.37	-5,485.23	1,683.37	5,921.20	5,908.07	13.13	450.968		
2,400.00	2,365.21	1,303.00	1,287.64	9.27	5.25	111.98	-5,496.24	1,676.11	5,955.46	5,941.57	13.88	428.934		
2,500.00	2,455.84	1,444.10	1,424.34	9.92	6.00	112.07	-5,526.05	1,657.84	5,991.10	5,975.98	15.12	396.236		
2,580.62	2,527.80	1,509.51	1,487.75	10.49	6.35	111.87	-5,539.51	1,649.12	6,020.68	6,004.77	15.90	378.547		
2,600.00	2,544.97	1,519.37	1,497.30	10.63	6.40	111.93	-5,541.56	1,647.76	6,027.94	6,011.88	16.07	375.153		
2,700.00	2,633.58	1,569.80	1,546.07	11.37	6.68	112.24	-5,552.19	1,640.60	6,065.91	6,049.00	16.91	358.637		
2,800.00	2,722.19	1,613.70	1,588.45	12.13	6.92	112.51	-5,561.67	1,634.16	6,104.70	6,086.96	17.74	344.126		
2,900.00	2,810.80	1,654.93	1,628.20	12.91	7.15	112.76	-5,570.80	1,628.08	6,144.37	6,125.81	18.56	331.052		
3,000.00	2,899.41	1,721.78	1,692.58	13.71	7.53	113.17	-5,585.89	1,618.28	6,184.86	6,165.34	19.52	316.848		
3,100.00	2,988.02	2,011.75	1,973.29	14.52	9.12	114.87	-5,646.13	1,577.77	6,224.86	6,203.23	21.63	287.757		
3,200.00	3,076.63	2,145.26	2,103.30	15.34	9.83	115.63	-5,670.50	1,559.61	6,263.10	6,240.17	22.93	273.163		
3,300.00	3,165.24	2,185.55	2,142.51	16.16	10.04	115.85	-5,677.86	1,553.97	6,301.82	6,278.07	23.76	265.272		
3,400.00	3,253.85	2,240.00	2,195.38	17.00	10.34	116.16	-5,688.21	1,546.12	6,341.46	6,316.80	24.65	257.210		
3,500.00	3,342.46	2,265.88	2,220.49	17.84	10.48	116.31	-5,693.28	1,542.40	6,381.88	6,356.47	25.40	251.222		
3,600.00	3,431.07	2,309.93	2,263.24	18.69	10.72	116.55	-5,702.02	1,536.40	6,423.13	6,396.88	26.24	244.769		
3,700.00	3,519.68	2,400.82	2,351.51	19.55	11.21	117.05	-5,720.24	1,524.63	6,465.02	6,437.70	27.32	236.662		
3,800.00	3,608.29	2,537.13	2,484.05	20.40	11.94	117.79	-5,746.45	1,506.64	6,506.57	6,477.95	28.62	227.331		
3,900.00	3,696.90	2,582.62	2,528.31	21.26	12.18	118.03	-5,755.13	1,500.68	6,548.48	6,519.03	29.46	222.318		
4,000.00	3,785.51	2,636.70	2,580.84	22.13	12.48	118.32	-5,765.72	1,493.42	6,591.11	6,560.78	30.33	217.319		
4,100.00	3,874.12	2,948.80	2,884.97	23.00	14.12	119.93	-5,822.60	1,452.66	6,633.95	6,601.44	32.51	204.068		
4,200.00	3,962.73	3,064.57	2,998.46	23.87	14.69	120.50	-5,840.75	1,438.82	6,674.39	6,640.72	33.67	198.225		
4,300.00	4,051.34	3,084.00	3,017.53	24.74	14.79	120.60	-5,843.74	1,436.55	6,715.26	6,680.90	34.36	195.453		
4,400.00	4,139.95	3,131.78	3,064.37	25.62	15.03	120.83	-5,851.40	1,431.00	6,756.84	6,721.66	35.18	192.082		
4,500.00	4,228.56	3,178.00	3,109.56	26.49	15.26	121.06	-5,859.44	1,425.63	6,799.52	6,763.54	35.98	188.968		
4,600.00	4,317.17	3,178.00	3,109.56	27.37	15.26	121.06	-5,859.44	1,425.63	6,842.94	6,806.39	36.55	187.224		
4,700.00	4,405.78	3,233.72	3,163.94	28.25	15.55	121.32	-5,869.65	1,419.08	6,887.16	6,849.77	37.39	184.185		
4,800.00	4,494.39	3,282.21	3,211.20	29.13	15.80	121.56	-5,878.79	1,413.25	6,932.05	6,893.86	38.19	181.497		
4,900.00	4,583.00	3,348.38	3,275.58	30.02	16.16	121.88	-5,891.44	1,404.65	6,977.44	6,938.36	39.08	178.520		
5,000.00	4,671.61	3,396.21	3,322.03	30.90	16.42	122.11	-5,900.70	1,397.96	7,023.33	6,983.45	39.88	176.133		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,760.22	3,437.89	3,362.47	31.79	16.65	122.32	-5,908.96	1,392.16	7,069.88	7,029.25	40.63	174.017		
5,200.00	4,848.83	3,459.00	3,382.94	32.67	16.76	122.42	-5,913.22	1,389.24	7,117.14	7,075.88	41.26	172.489		
5,300.00	4,937.44	3,492.70	3,415.58	33.56	16.95	122.58	-5,920.24	1,384.65	7,165.18	7,123.22	41.96	170.780		
5,400.00	5,026.05	3,515.09	3,437.23	34.45	17.08	122.69	-5,925.10	1,381.67	7,214.07	7,171.49	42.58	169.421		
5,500.00	5,114.66	3,553.00	3,473.82	35.34	17.29	122.87	-5,933.68	1,376.73	7,263.84	7,220.56	43.28	167.818		
5,600.00	5,203.27	3,514.84	3,473.82	36.23	24.67	129.62	-6,138.17	1,247.45	7,312.49	7,260.97	51.51	141.960		
5,700.00	5,291.88	3,419.54	3,311.90	37.12	24.92	129.92	-6,138.02	1,248.24	7,344.07	7,291.64	52.43	140.073		
5,800.00	5,380.50	3,539.13	3,431.48	38.01	25.20	130.26	-6,137.32	1,249.14	7,375.39	7,321.99	53.39	138.137		
5,900.00	5,469.11	3,646.48	3,538.82	38.90	25.46	130.56	-6,136.34	1,249.67	7,406.57	7,352.25	54.32	136.351		
6,000.00	5,557.72	3,759.75	3,652.08	39.79	25.73	130.88	-6,134.98	1,249.97	7,437.65	7,382.38	55.27	134.577		
6,100.00	5,646.33	3,871.32	3,763.64	40.68	26.00	131.20	-6,133.27	1,250.37	7,468.57	7,412.36	56.21	132.870		
6,200.00	5,734.94	3,976.64	3,868.95	41.58	26.26	131.49	-6,131.39	1,250.55	7,499.42	7,442.29	57.13	131.261		
6,300.00	5,823.55	4,065.89	3,958.18	42.47	26.48	131.74	-6,129.69	1,250.50	7,530.31	7,472.30	58.01	129.809		
6,400.00	5,912.16	4,164.16	4,056.43	43.36	26.73	132.01	-6,127.77	1,250.18	7,561.31	7,502.40	58.92	128.342		
6,500.00	6,000.77	4,269.47	4,161.72	44.26	27.00	132.30	-6,125.52	1,249.79	7,592.31	7,532.46	59.84	126.873		
6,600.00	6,089.38	4,357.23	4,249.46	45.15	27.23	132.55	-6,123.56	1,249.46	7,623.35	7,562.63	60.71	125.564		
6,700.00	6,177.99	4,477.94	4,370.13	46.05	27.54	132.87	-6,120.64	1,248.90	7,654.37	7,592.69	61.69	124.085		
6,800.00	6,266.60	4,576.14	4,468.29	46.94	27.79	133.14	-6,117.98	1,248.65	7,685.27	7,622.68	62.59	122.793		
6,900.00	6,355.21	4,653.80	4,545.92	47.84	28.00	133.34	-6,115.92	1,248.82	7,716.33	7,652.91	63.42	121.668		
7,000.00	6,443.82	4,722.79	4,614.89	48.74	28.17	133.52	-6,114.25	1,249.14	7,747.72	7,683.49	64.22	120.635		
7,100.00	6,532.43	4,806.82	4,698.90	49.63	28.39	133.74	-6,112.38	1,249.54	7,779.41	7,714.33	65.07	119.546		
7,200.00	6,621.04	4,882.97	4,775.03	50.53	28.60	133.94	-6,110.73	1,249.88	7,811.28	7,745.39	65.90	118.536		
7,300.00	6,709.65	4,968.99	4,861.03	51.42	28.82	134.16	-6,109.04	1,250.14	7,843.46	7,776.71	66.75	117.502		
7,400.00	6,798.26	5,069.52	4,961.53	52.32	29.09	134.41	-6,106.94	1,250.85	7,875.63	7,807.98	67.65	116.412		
7,500.00	6,886.87	5,164.48	5,056.48	53.22	29.35	134.65	-6,104.92	1,251.66	7,907.88	7,839.35	68.53	115.386		
7,600.00	6,975.48	5,251.16	5,143.13	54.12	29.58	134.86	-6,103.01	1,252.48	7,940.17	7,870.78	69.39	114.435		
7,656.30	7,025.36	5,292.39	5,184.35	54.62	29.69	134.96	-6,102.15	1,252.92	7,958.46	7,888.62	69.84	113.954		
7,700.00	7,064.54	5,337.09	5,229.04	55.00	29.81	127.80	-6,101.26	1,253.44	7,971.13	7,900.90	70.23	113.493		
7,750.00	7,110.29	5,399.71	5,291.63	55.40	29.98	117.81	-6,099.90	1,254.22	7,981.63	7,910.91	70.73	112.852		
7,800.00	7,156.67	5,480.34	5,372.23	55.75	30.20	106.05	-6,097.93	1,255.49	7,987.74	7,916.47	71.28	112.066		
7,850.00	7,203.34	5,537.25	5,429.11	56.05	30.35	93.22	-6,096.39	1,256.65	7,989.42	7,917.68	71.74	111.366		
7,900.00	7,249.95	5,588.75	5,480.57	56.30	30.48	80.67	-6,094.99	1,257.93	7,986.76	7,914.59	72.17	110.661		
7,950.00	7,296.14	5,636.54	5,528.33	56.50	30.61	69.59	-6,093.69	1,259.30	7,979.80	7,907.23	72.58	109.948		
8,000.00	7,341.56	5,683.53	5,575.27	56.64	30.74	60.53	-6,092.42	1,260.83	7,968.61	7,895.65	72.96	109.215		
8,050.00	7,385.86	5,741.08	5,632.77	56.74	30.89	53.48	-6,090.82	1,262.76	7,953.23	7,879.87	73.37	108.406		
8,100.00	7,428.71	5,800.00	5,692.96	56.79	31.85	48.06	-6,089.64	1,264.06	7,933.78	7,859.12	74.67	106.257		
8,150.00	7,469.77	5,806.72	5,698.35	56.80	31.07	43.94	-6,088.92	1,264.78	7,910.51	7,836.56	73.95	106.969		
8,200.00	7,508.75	5,827.64	5,719.26	56.77	31.12	40.88	-6,088.37	1,265.29	7,883.63	7,809.45	74.18	106.279		
8,250.00	7,545.33	5,847.22	5,738.83	56.70	31.18	38.67	-6,087.89	1,265.71	7,853.32	7,778.94	74.38	105.577		
8,300.00	7,579.25	5,812.95	5,703.14	56.59	31.91	38.36	-6,077.13	1,275.19	7,818.76	7,743.34	75.42	103.668		
8,350.00	7,610.24	5,811.16	5,703.30	56.45	31.96	37.73	-6,076.15	1,276.11	7,781.27	7,705.67	75.60	102.928		
8,400.00	7,638.06	5,815.00	5,704.11	56.28	32.00	37.81	-6,075.42	1,276.82	7,741.15	7,665.40	75.75	102.193		
8,450.00	7,662.52	5,815.00	5,704.11	56.09	32.00	38.61	-6,075.42	1,276.82	7,698.72	7,622.88	75.84	101.512		
8,500.00	7,683.41	5,817.93	5,708.99	55.88	32.06	40.66	-6,074.32	1,277.84	7,654.22	7,578.23	76.00	100.719		
8,550.00	7,700.59	5,818.67	5,707.72	55.64	32.08	44.20	-6,073.96	1,278.15	7,608.05	7,531.96	76.09	99.986		
8,600.00	7,713.91	5,819.42	5,708.46	55.39	32.10	50.43	-6,073.70	1,278.38	7,560.50	7,484.33	76.17	99.255		
8,650.00	7,723.29	5,819.13	5,708.16	55.14	32.11	61.85	-6,073.53	1,278.52	7,511.94	7,435.70	76.24	98.530		
8,700.00	7,728.64	5,819.75	5,708.78	54.87	32.11	83.71	-6,073.46	1,278.58	7,462.71	7,386.42	76.30	97.812		
8,740.83	7,730.00	5,819.52	5,708.55	54.65	32.11	111.58	-6,073.47	1,278.57	7,422.28	7,345.95	76.33	97.233		
8,800.00	7,730.00	5,819.15	5,708.18	54.33	32.11	111.51	-6,073.53	1,278.52	7,363.65	7,287.27	76.39	96.401		
8,900.00	7,730.00	5,819.81	5,708.85	53.82	32.10	111.38	-6,073.64	1,278.43	7,264.58	7,188.11	76.47	94.993		
9,000.00	7,730.00	5,819.46	5,708.50	53.33	32.09	111.25	-6,073.74	1,278.34	7,165.54	7,088.97	76.57	93.584		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	8,189.07	8,080.12	52.87	32.09	111.12	-6,073.85	1,278.25	7,066.52	6,989.85	76.66	92.175		
9,200.00	7,730.00	8,186.67	8,077.71	52.44	32.08	110.99	-6,073.96	1,278.15	6,967.53	6,890.76	76.77	90.764		
9,300.00	7,730.00	8,184.24	8,075.29	52.03	32.07	110.86	-6,074.08	1,278.06	6,868.56	6,791.69	76.87	89.352		
9,400.00	7,730.00	8,181.78	8,072.83	51.65	32.07	110.72	-6,074.19	1,277.95	6,769.62	6,692.64	76.98	87.939		
9,500.00	7,730.00	8,179.29	8,070.35	51.29	32.06	110.59	-6,074.31	1,277.85	6,670.72	6,593.62	77.10	86.526		
9,600.00	7,730.00	8,176.78	8,067.85	50.95	32.05	110.45	-6,074.42	1,277.75	6,571.84	6,494.63	77.21	85.112		
9,700.00	7,730.00	8,174.25	8,065.32	50.64	32.05	110.31	-6,074.54	1,277.64	6,473.00	6,395.66	77.34	83.696		
9,800.00	7,730.00	8,156.00	8,047.11	50.35	32.00	109.30	-6,075.42	1,276.82	6,374.23	6,296.82	77.41	82.344		
9,900.00	7,730.00	8,156.00	8,047.11	50.09	32.00	109.30	-6,075.42	1,276.82	6,275.45	6,197.89	77.55	80.916		
10,000.00	7,730.00	8,156.00	8,047.11	49.86	32.00	109.30	-6,075.42	1,276.82	6,176.70	6,099.00	77.71	79.489		
10,100.00	7,730.00	8,156.00	8,047.11	49.65	32.00	109.30	-6,075.42	1,276.82	6,078.00	6,000.14	77.86	78.060		
10,200.00	7,730.00	8,156.00	8,047.11	49.48	32.00	109.30	-6,075.42	1,276.82	5,979.34	5,901.31	78.03	76.631		
10,300.00	7,730.00	8,156.00	8,047.11	49.35	32.00	109.30	-6,075.42	1,276.82	5,880.73	5,802.53	78.20	75.202		
10,400.00	7,730.00	8,156.00	8,047.11	49.27	32.00	109.30	-6,075.42	1,276.82	5,782.16	5,703.78	78.38	73.773		
10,500.00	7,730.00	8,156.00	8,047.11	49.26	32.00	109.30	-6,075.42	1,276.82	5,683.64	5,605.08	78.57	72.343		
10,600.00	7,730.00	8,148.56	8,039.68	49.32	31.98	108.88	-6,075.79	1,276.46	5,585.17	5,506.44	78.73	70.941		
10,700.00	7,730.00	8,144.98	8,036.12	49.51	31.97	108.68	-6,075.96	1,276.29	5,486.75	5,407.84	78.92	69.523		
10,800.00	7,730.00	8,141.37	8,032.52	49.83	31.96	108.48	-6,076.14	1,276.12	5,388.39	5,309.28	79.12	68.106		
10,900.00	7,730.00	8,137.73	8,028.88	50.31	31.95	108.27	-6,076.33	1,275.95	5,290.09	5,210.76	79.32	66.689		
11,000.00	7,730.00	8,134.05	8,025.21	50.96	31.94	108.07	-6,076.51	1,275.77	5,191.85	5,112.30	79.54	65.272		
11,100.00	7,730.00	8,130.33	8,021.51	51.75	31.93	107.86	-6,076.70	1,275.59	5,093.67	5,013.90	79.77	63.855		
11,200.00	7,730.00	8,126.58	8,017.77	52.66	31.92	107.64	-6,076.89	1,275.41	4,995.56	4,915.55	80.01	62.438		
11,300.00	7,730.00	8,122.80	8,013.99	53.67	31.91	107.43	-6,077.08	1,275.23	4,897.52	4,817.26	80.26	61.021		
11,400.00	7,730.00	8,118.98	8,010.18	54.75	31.90	107.21	-6,077.28	1,275.04	4,799.56	4,719.04	80.52	59.605		
11,500.00	7,730.00	8,115.12	8,006.33	55.89	31.89	106.99	-6,077.48	1,274.86	4,701.69	4,620.89	80.80	58.190		
11,600.00	7,730.00	8,111.22	8,002.44	57.07	31.88	106.77	-6,077.68	1,274.67	4,603.89	4,522.80	81.09	56.775		
11,700.00	7,730.00	8,107.28	7,998.51	58.30	31.87	106.54	-6,077.89	1,274.47	4,506.20	4,424.80	81.40	55.361		
11,800.00	7,730.00	8,103.31	7,994.55	59.55	31.86	106.32	-6,078.09	1,274.28	4,408.59	4,326.88	81.72	53.948		
11,900.00	7,730.00	8,099.29	7,990.54	60.84	31.85	106.09	-6,078.30	1,274.08	4,311.10	4,229.04	82.06	52.536		
12,000.00	7,730.00	8,095.24	7,986.50	62.15	31.84	105.85	-6,078.52	1,273.88	4,213.72	4,131.30	82.42	51.126		
12,100.00	7,730.00	8,091.14	7,982.41	63.49	31.83	105.62	-6,078.74	1,273.68	4,116.45	4,033.66	82.80	49.717		
12,200.00	7,730.00	8,087.00	7,978.29	64.85	31.82	105.38	-6,078.96	1,273.47	4,019.32	3,936.12	83.20	48.310		
12,300.00	7,730.00	8,082.82	7,974.12	66.22	31.81	105.14	-6,079.18	1,273.26	3,922.32	3,838.70	83.62	46.905		
12,400.00	7,730.00	8,078.60	7,969.91	67.62	31.80	104.89	-6,079.41	1,273.05	3,825.48	3,741.41	84.07	45.502		
12,500.00	7,730.00	8,074.34	7,965.65	69.03	31.79	104.64	-6,079.64	1,272.84	3,728.79	3,644.24	84.55	44.102		
12,600.00	7,730.00	8,070.03	7,961.36	70.45	31.77	104.39	-6,079.87	1,272.62	3,632.28	3,547.22	85.06	42.705		
12,700.00	7,730.00	12,700.00	7,915.22	71.90	44.28	101.68	-6,082.06	1,270.64	3,535.76	3,436.02	99.74	35.451		
12,800.00	7,730.00	8,064.28	7,955.63	73.35	31.76	104.06	-6,080.19	1,272.33	3,439.83	3,353.64	86.18	39.912		
12,900.00	7,730.00	8,019.57	7,911.03	74.81	31.64	101.43	-6,082.48	1,270.24	3,343.90	3,257.34	86.55	38.634		
13,000.00	7,730.00	7,987.73	7,879.24	76.29	31.56	99.53	-6,083.85	1,269.01	3,248.15	3,161.13	87.03	37.323		
13,100.00	7,730.00	7,965.69	7,857.23	77.78	31.50	98.21	-6,084.68	1,268.28	3,152.64	3,065.04	87.60	35.989		
13,200.00	7,730.00	7,957.09	7,848.63	79.28	31.48	97.69	-6,084.97	1,268.02	3,057.40	2,969.09	88.31	34.622		
13,300.00	7,730.00	7,949.08	7,840.63	80.79	31.46	97.21	-6,085.24	1,267.79	2,962.46	2,873.39	89.07	33.260		
13,400.00	7,730.00	7,941.61	7,833.17	82.31	31.43	96.76	-6,085.48	1,267.59	2,867.86	2,777.96	89.89	31.902		
13,500.00	7,730.00	7,934.63	7,826.19	83.84	31.42	96.34	-6,085.70	1,267.41	2,773.62	2,682.84	90.79	30.551		
13,600.00	7,730.00	7,928.08	7,819.65	85.37	31.40	95.94	-6,085.90	1,267.24	2,679.80	2,588.05	91.75	29.207		
13,700.00	7,730.00	7,921.94	7,813.52	86.92	31.38	95.57	-6,086.08	1,267.09	2,586.44	2,493.64	92.80	27.872		
13,800.00	7,730.00	7,916.17	7,807.74	88.47	31.37	95.22	-6,086.24	1,266.96	2,493.58	2,399.64	93.93	26.546		
13,900.00	7,730.00	7,910.72	7,802.30	90.03	31.35	94.89	-6,086.39	1,266.84	2,401.28	2,306.12	95.16	25.233		
14,000.00	7,730.00	7,905.58	7,797.16	91.59	31.34	94.58	-6,086.53	1,266.73	2,309.63	2,213.12	96.50	23.933		
14,100.00	7,730.00	7,900.72	7,792.31	93.16	31.32	94.28	-6,086.66	1,266.64	2,218.69	2,120.72	97.96	22.648		
14,200.00	7,730.00	7,896.12	7,787.71	94.74	31.31	94.00	-6,086.77	1,266.55	2,128.55	2,029.00	99.55	21.381		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,891.75	7,783.34	96.33	31.30	93.74	-6,086.88	1,266.46	2,039.33	1,938.04	101.29	20.134		
14,400.00	7,730.00	7,887.61	7,779.20	97.92	31.29	93.49	-6,086.98	1,266.39	1,951.15	1,847.97	103.18	18.910		
14,500.00	7,730.00	7,883.67	7,775.26	99.51	31.28	93.25	-6,087.07	1,266.32	1,864.16	1,758.91	105.25	17.712		
14,600.00	7,730.00	7,879.92	7,771.51	101.11	31.27	93.02	-6,087.16	1,266.26	1,778.53	1,671.02	107.51	16.543		
14,700.00	7,730.00	7,876.34	7,767.94	102.72	31.26	92.80	-6,087.24	1,266.20	1,694.47	1,584.49	109.98	15.407		
14,800.00	7,730.00	7,872.93	7,764.53	104.33	31.25	92.59	-6,087.31	1,266.15	1,612.23	1,499.55	112.68	14.308		
14,900.00	7,730.00	7,872.00	7,763.60	105.94	31.24	92.54	-6,087.33	1,266.13	1,532.10	1,416.46	115.64	13.249		
15,000.00	7,730.00	7,869.07	7,760.67	107.56	31.24	92.36	-6,087.39	1,266.09	1,454.43	1,335.59	118.83	12.239		
15,100.00	7,730.00	7,867.34	7,758.94	109.18	31.23	92.25	-6,087.43	1,266.06	1,379.63	1,257.34	122.29	11.282		
15,200.00	7,730.00	7,865.58	7,757.18	110.81	31.23	92.15	-6,087.47	1,266.03	1,308.20	1,182.22	125.99	10.384		
15,300.00	7,730.00	7,863.80	7,755.40	112.44	31.22	92.04	-6,087.51	1,266.00	1,240.73	1,110.83	129.90	9.552		
15,400.00	7,730.00	7,861.99	7,753.59	114.08	31.22	91.93	-6,087.55	1,265.97	1,177.88	1,043.92	133.96	8.792		
15,500.00	7,730.00	7,860.15	7,751.76	115.72	31.21	91.81	-6,087.59	1,265.94	1,120.44	982.35	138.09	8.114		
15,600.00	7,730.00	7,858.29	7,749.89	117.36	31.21	91.70	-6,087.63	1,265.91	1,069.29	927.14	142.15	7.522		
15,700.00	7,730.00	7,856.40	7,748.00	119.00	31.20	91.59	-6,087.68	1,265.88	1,025.35	879.42	145.93	7.026		
15,800.00	7,730.00	7,854.48	7,746.09	120.65	31.20	91.47	-6,087.72	1,265.84	989.60	840.39	149.21	6.632		
15,900.00	7,730.00	7,852.54	7,744.14	122.30	31.19	91.35	-6,087.76	1,265.81	962.95	811.21	151.74	6.346		
16,000.00	7,730.00	7,850.56	7,742.17	123.96	31.19	91.23	-6,087.81	1,265.77	946.16	792.91	153.25	6.174		
16,100.00	7,730.00	7,848.55	7,740.16	125.61	31.18	91.11	-6,087.86	1,265.73	939.77	786.18	153.59	6.119 SF		
16,110.34	7,730.00	7,848.34	7,739.95	125.78	31.18	91.09	-6,087.86	1,265.73	939.71	786.16	153.55	6.120 CC, ES		
16,200.00	7,730.00	7,846.52	7,738.12	127.27	31.18	90.98	-6,087.91	1,265.69	943.97	791.31	152.67	6.183		
16,300.00	7,730.00	7,844.45	7,736.06	128.94	31.17	90.86	-6,087.95	1,265.65	958.65	808.10	150.55	6.368		
16,400.00	7,730.00	7,842.35	7,733.96	130.60	31.16	90.73	-6,088.01	1,265.61	983.32	835.91	147.41	6.671		
16,500.00	7,730.00	7,840.21	7,731.82	132.27	31.16	90.60	-6,088.06	1,265.57	1,017.26	873.76	143.50	7.089		
16,600.00	7,730.00	7,838.04	7,729.66	133.94	31.15	90.47	-6,088.11	1,265.52	1,059.58	920.49	139.08	7.618		
16,700.00	7,730.00	7,835.84	7,727.46	135.61	31.15	90.33	-6,088.16	1,265.48	1,109.32	974.90	134.42	8.253		
16,800.00	7,730.00	7,833.60	7,725.22	137.28	31.14	90.20	-6,088.22	1,265.43	1,165.52	1,035.81	129.71	8.986		
16,900.00	7,730.00	7,831.33	7,722.95	138.96	31.13	90.06	-6,088.28	1,265.38	1,227.32	1,102.20	125.11	9.810		
17,000.00	7,730.00	7,829.02	7,720.64	140.64	31.13	89.92	-6,088.33	1,265.33	1,293.89	1,173.16	120.73	10.718		
17,100.00	7,730.00	7,826.67	7,718.29	142.32	31.12	89.77	-6,088.39	1,265.27	1,364.54	1,247.93	116.62	11.701		
17,200.00	7,730.00	7,824.28	7,715.90	144.00	31.11	89.63	-6,088.45	1,265.22	1,438.68	1,325.87	112.81	12.753		
17,300.00	7,730.00	7,821.85	7,713.48	145.69	31.11	89.48	-6,088.52	1,265.16	1,515.79	1,406.47	109.32	13.866		
17,400.00	7,730.00	7,819.39	7,711.01	147.37	31.10	89.33	-6,088.58	1,265.10	1,595.43	1,489.30	106.13	15.033		
17,500.00	7,730.00	7,816.88	7,708.50	149.06	31.09	89.18	-6,088.65	1,265.04	1,677.26	1,574.02	103.24	16.246		
17,600.00	7,730.00	7,814.32	7,705.95	150.75	31.09	89.02	-6,088.71	1,264.98	1,760.95	1,660.33	100.62	17.501		
17,700.00	7,730.00	7,811.72	7,703.35	152.44	31.08	88.86	-6,088.78	1,264.91	1,846.27	1,748.01	98.26	18.790		
17,800.00	7,730.00	7,809.08	7,700.71	154.13	31.07	88.70	-6,088.85	1,264.84	1,932.99	1,836.87	96.12	20.110		
17,900.00	7,730.00	7,806.39	7,698.02	155.83	31.07	88.54	-6,088.93	1,264.77	2,020.93	1,926.74	94.19	21.455		
18,000.00	7,730.00	7,803.65	7,695.29	157.52	31.06	88.37	-6,089.00	1,264.70	2,109.95	2,017.49	92.46	22.821		
18,100.00	7,730.00	7,800.86	7,692.50	159.22	31.05	88.20	-6,089.08	1,264.62	2,199.91	2,109.01	90.89	24.204		
18,200.00	7,730.00	7,798.03	7,689.67	160.92	31.04	88.03	-6,089.16	1,264.54	2,290.69	2,201.21	89.48	25.601		
18,300.00	7,730.00	7,795.14	7,686.78	162.62	31.04	87.86	-6,089.24	1,264.46	2,382.21	2,294.01	88.20	27.009		
18,400.00	7,730.00	7,792.20	7,683.84	164.32	31.03	87.68	-6,089.32	1,264.38	2,474.38	2,387.34	87.05	28.426		
18,426.22	7,730.00	7,791.41	7,683.06	164.76	31.02	87.63	-6,089.34	1,264.35	2,498.65	2,411.89	86.76	28.799		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	161.81	-5,380.84	1,768.32	5,663.96					
100.00	100.00	108.59	108.59	0.13	0.20	161.81	-5,380.64	1,768.25	5,663.76	5,663.43	0.33	N/A		
178.14	178.14	171.14	171.14	0.41	0.42	161.81	-5,380.50	1,768.37	5,663.65	5,662.82	0.83	6,788.424		
200.00	200.00	185.00	185.00	0.49	0.47	161.81	-5,380.49	1,768.44	5,663.66	5,662.70	0.96	5,891.235		
300.00	300.00	226.56	226.56	0.85	0.61	161.80	-5,380.60	1,768.91	5,664.30	5,662.84	1.47	3,862.056		
400.00	400.00	274.00	273.98	1.21	0.78	161.79	-5,381.13	1,770.06	5,666.02	5,664.03	1.99	2,844.662		
500.00	500.00	305.89	305.85	1.57	0.90	161.78	-5,381.70	1,771.25	5,668.78	5,666.31	2.47	2,299.573		
600.00	600.00	365.00	364.84	1.93	1.11	161.76	-5,383.20	1,774.44	5,672.70	5,669.66	3.03	1,869.847		
700.00	700.00	365.00	364.84	2.29	1.11	161.76	-5,383.20	1,774.44	5,677.60	5,674.21	3.39	1,673.658		
800.00	800.00	419.69	419.36	2.64	1.31	161.73	-5,385.22	1,778.30	5,683.53	5,679.58	3.95	1,439.388		
900.00	900.00	456.00	455.51	3.00	1.45	161.70	-5,386.98	1,781.21	5,690.66	5,686.23	4.44	1,282.746		
1,000.00	1,000.00	496.82	496.09	3.36	1.61	161.67	-5,389.23	1,785.03	5,698.87	5,693.92	4.95	1,152.436		
1,100.00	1,100.00	549.00	547.82	3.72	1.81	161.63	-5,392.37	1,791.07	5,708.13	5,702.64	5.49	1,038.910		
1,200.00	1,200.00	575.25	573.79	4.08	1.92	161.60	-5,394.10	1,794.51	5,718.39	5,712.44	5.95	961.187		
1,300.00	1,299.98	611.84	609.93	4.43	2.08	114.22	-5,396.78	1,799.55	5,730.48	5,724.04	6.44	889.676		
1,400.00	1,399.84	640.00	637.70	4.79	2.19	113.93	-5,399.06	1,803.63	5,745.09	5,738.19	6.90	833.013		
1,500.00	1,499.45	687.29	684.25	5.15	2.40	113.60	-5,403.29	1,810.84	5,762.10	5,754.67	7.44	774.831		
1,600.00	1,598.70	732.00	728.14	5.51	2.60	113.23	-5,407.73	1,818.06	5,781.55	5,773.58	7.97	725.547		
1,700.00	1,697.47	759.57	755.15	5.89	2.74	112.83	-5,410.69	1,822.77	5,803.36	5,794.91	8.44	687.411		
1,800.00	1,795.62	792.50	787.32	6.28	2.89	112.38	-5,414.45	1,828.71	5,827.57	5,818.62	8.95	651.200		
1,900.00	1,893.06	825.00	818.97	6.69	3.05	111.89	-5,418.42	1,834.93	5,854.13	5,844.66	9.47	618.348		
2,000.00	1,989.64	863.23	856.09	7.13	3.25	111.37	-5,423.36	1,842.61	5,882.93	5,872.90	10.04	586.032		
2,100.00	2,085.27	919.00	910.05	7.61	3.54	110.83	-5,431.07	1,854.40	5,913.96	5,903.25	10.71	552.091		
2,200.00	2,179.82	949.44	939.42	8.12	3.70	110.23	-5,435.46	1,861.07	5,946.91	5,935.60	11.30	526.120		
2,300.00	2,273.17	1,013.00	1,000.65	8.67	4.05	109.65	-5,444.81	1,875.33	5,981.66	5,969.58	12.08	495.116		
2,400.00	2,365.21	1,061.05	1,046.86	9.27	4.33	109.02	-5,452.12	1,886.28	6,018.11	6,005.29	12.82	469.334		
2,500.00	2,455.84	1,106.00	1,090.05	9.92	4.58	108.35	-5,459.22	1,896.53	6,056.28	6,042.68	13.59	445.552		
2,580.62	2,527.80	1,159.59	1,141.50	10.49	4.90	107.84	-5,467.99	1,908.70	6,088.21	6,073.88	14.33	424.863		
2,600.00	2,544.97	1,170.60	1,152.06	10.63	4.96	107.87	-5,469.82	1,911.19	6,096.01	6,081.51	14.50	420.379		
2,700.00	2,633.58	1,221.77	1,201.15	11.37	5.26	108.03	-5,478.54	1,922.71	6,136.66	6,121.29	15.37	399.372		
2,800.00	2,722.19	2,800.00	1,369.55	12.13	14.41	108.57	-5,507.94	1,960.08	6,176.71	6,153.32	23.39	264.123		
2,900.00	2,810.80	1,455.37	1,426.14	12.91	6.61	108.75	-5,517.75	1,971.76	6,216.70	6,198.89	17.81	348.966		
3,000.00	2,899.41	1,490.00	1,459.56	13.71	6.81	108.87	-5,523.85	1,978.51	6,257.47	6,238.84	18.63	335.910		
3,100.00	2,988.02	1,534.36	1,502.31	14.52	7.06	109.01	-5,532.06	1,986.99	6,299.01	6,279.52	19.49	323.122		
3,200.00	3,076.63	1,584.00	1,550.10	15.34	7.35	109.17	-5,541.82	1,996.26	6,341.41	6,321.02	20.39	310.984		
3,300.00	3,165.24	1,613.54	1,578.50	16.16	7.52	109.27	-5,547.86	2,001.70	6,384.51	6,363.33	21.18	301.383		
3,400.00	3,253.85	1,659.92	1,623.04	17.00	7.79	109.43	-5,557.59	2,010.21	6,428.31	6,406.24	22.07	291.330		
3,500.00	3,342.46	1,731.00	1,691.24	17.84	8.21	109.66	-5,572.90	2,023.09	6,472.65	6,449.57	23.08	280.468		
3,600.00	3,431.07	2,190.61	2,136.59	18.69	10.73	111.23	-5,660.98	2,094.04	6,513.81	6,487.75	26.06	249.992		
3,700.00	3,519.68	2,240.00	2,184.76	19.55	10.99	111.39	-5,669.60	2,100.73	6,553.91	6,526.95	26.96	243.091		
3,800.00	3,608.29	2,323.36	2,266.00	20.40	11.42	111.68	-5,684.33	2,112.23	6,594.49	6,566.46	28.03	235.231		
3,900.00	3,696.90	2,378.81	2,320.03	21.26	11.71	111.86	-5,694.11	2,119.90	6,635.24	6,606.28	28.97	229.051		
4,000.00	3,785.51	2,428.00	2,367.94	22.13	11.97	112.03	-5,703.13	2,126.48	6,676.61	6,646.74	29.87	223.527		
4,100.00	3,874.12	2,547.49	2,484.38	23.00	12.60	112.43	-5,724.96	2,142.08	6,717.97	6,686.85	31.12	215.867		
4,200.00	3,962.73	2,603.96	2,539.37	23.87	12.89	112.61	-5,735.26	2,149.74	6,759.63	6,727.57	32.06	210.859		
4,300.00	4,051.34	2,645.08	2,579.35	24.74	13.12	112.75	-5,742.90	2,155.60	6,801.86	6,768.95	32.92	206.641		
4,400.00	4,139.95	2,682.38	2,615.53	25.62	13.32	112.86	-5,750.04	2,161.20	6,844.83	6,811.08	33.75	202.798		
4,500.00	4,228.56	2,828.91	2,757.36	26.49	14.14	113.30	-5,777.64	2,185.53	6,888.09	6,852.89	35.19	195.713		
4,600.00	4,317.17	2,897.00	2,823.34	27.37	14.52	113.49	-5,790.17	2,196.75	6,930.97	6,894.76	36.21	191.427		
4,700.00	4,405.78	2,969.05	2,893.18	28.25	14.93	113.71	-5,803.68	2,208.22	6,974.16	6,936.92	37.23	187.303		
4,800.00	4,494.39	3,063.57	2,984.79	29.13	15.45	113.98	-5,821.46	2,223.19	7,017.51	6,979.12	38.39	182.813		
4,900.00	4,583.00	3,145.94	3,064.71	30.02	15.91	114.22	-5,836.97	2,235.77	7,060.89	7,021.42	39.46	178.916		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	3,208.52	3,125.46	30.90	16.25	114.41	-5,848.94	2,244.80	7,104.53	7,064.10	40.43	175.728		
5,100.00	4,760.22	3,272.00	3,187.00	31.79	16.60	114.60	-5,861.36	2,254.20	7,148.68	7,107.28	41.40	172.692		
5,200.00	4,848.83	3,315.00	3,228.64	32.67	16.84	114.72	-5,869.94	2,260.66	7,193.29	7,151.04	42.24	170.278		
5,300.00	4,937.44	3,393.10	3,304.20	33.56	17.28	114.95	-5,885.81	2,272.38	7,238.37	7,195.07	43.29	167.198		
5,400.00	5,026.05	3,502.93	3,410.53	34.45	17.90	115.25	-5,907.46	2,289.39	7,283.07	7,238.54	44.53	163.561		
5,500.00	5,114.66	3,553.00	3,458.93	35.34	18.18	115.39	-5,917.38	2,297.51	7,328.17	7,282.75	45.42	161.358		
5,600.00	5,203.27	3,588.73	3,493.41	36.23	18.39	115.49	-5,924.65	2,303.38	7,373.86	7,327.64	46.21	159.558		
5,700.00	5,291.88	3,621.44	3,524.94	37.12	18.58	115.57	-5,931.55	2,308.75	7,420.24	7,373.25	46.99	157.916		
5,800.00	5,380.50	5,702.91	5,572.57	38.01	27.13	121.41	-6,130.89	2,494.59	7,461.98	7,405.00	56.98	130.962		
5,900.00	5,469.11	5,818.52	5,688.14	38.90	27.38	121.78	-6,127.86	2,492.77	7,485.43	7,427.40	58.03	128.999		
6,000.00	5,557.72	5,890.56	5,760.14	39.79	27.54	122.01	-6,125.94	2,491.72	7,509.05	7,450.08	58.97	127.346		
6,100.00	5,646.33	6,011.99	5,881.51	40.68	27.81	122.39	-6,122.51	2,489.99	7,532.74	7,472.71	60.03	125.486		
6,200.00	5,734.94	6,119.02	5,988.48	41.58	28.05	122.73	-6,119.12	2,488.51	7,556.35	7,495.29	61.05	123.767		
6,300.00	5,823.55	6,237.12	6,106.50	42.47	28.32	123.09	-6,115.00	2,487.09	7,579.89	7,517.78	62.11	122.047		
6,400.00	5,912.16	6,323.10	6,192.40	43.36	28.51	123.36	-6,111.76	2,486.13	7,603.38	7,540.31	63.07	120.546		
6,500.00	6,000.77	6,397.58	6,266.84	44.26	28.69	123.58	-6,109.10	2,485.44	7,627.26	7,563.25	64.01	119.155		
6,600.00	6,089.38	6,476.21	6,345.42	45.15	28.87	123.82	-6,106.36	2,485.07	7,651.45	7,586.49	64.96	117.790		
6,700.00	6,177.99	6,549.25	6,418.42	46.05	29.05	124.03	-6,103.90	2,485.15	7,675.99	7,610.10	65.89	116.496		
6,800.00	6,266.60	6,608.59	6,477.73	46.94	29.20	124.20	-6,102.05	2,485.49	7,700.97	7,634.19	66.78	115.313		
6,900.00	6,355.21	6,680.46	6,549.57	47.84	29.39	124.41	-6,100.08	2,486.03	7,726.46	7,658.75	67.71	114.112		
7,000.00	6,443.82	6,812.63	6,681.68	48.74	29.73	124.79	-6,096.33	2,486.49	7,752.06	7,683.25	68.81	112.659		
7,100.00	6,532.43	6,944.67	6,813.64	49.63	30.05	125.18	-6,091.82	2,485.26	7,777.13	7,707.24	69.89	111.274		
7,200.00	6,621.04	7,029.70	6,898.60	50.53	30.26	125.43	-6,088.81	2,483.80	7,802.24	7,731.41	70.83	110.151		
7,300.00	6,709.65	7,113.25	6,982.09	51.42	30.47	125.68	-6,085.92	2,482.27	7,827.59	7,755.82	71.76	109.074		
7,400.00	6,798.26	7,186.87	7,055.66	52.32	30.65	125.89	-6,083.45	2,480.97	7,853.24	7,780.57	72.67	108.074		
7,500.00	6,886.87	7,273.85	7,142.58	53.22	30.87	126.15	-6,080.67	2,479.51	7,879.19	7,805.59	73.60	107.051		
7,600.00	6,975.48	7,354.52	7,223.20	54.12	31.07	126.38	-6,078.06	2,478.48	7,905.33	7,830.81	74.52	106.083		
7,656.30	7,025.36	7,395.94	7,264.60	54.62	31.18	126.50	-6,076.79	2,477.93	7,920.19	7,845.16	75.02	105.569		
7,700.00	7,064.54	7,428.17	7,296.81	55.00	31.26	119.50	-6,075.83	2,477.48	7,930.18	7,854.77	75.41	105.157		
7,750.00	7,110.29	7,465.62	7,334.25	55.40	31.36	109.60	-6,074.75	2,476.93	7,937.70	7,861.84	75.86	104.642		
7,800.00	7,156.67	7,503.85	7,372.46	55.75	31.46	97.83	-6,073.69	2,476.35	7,940.98	7,864.68	76.29	104.086		
7,850.00	7,203.34	7,543.52	7,412.10	56.05	31.56	84.97	-6,072.63	2,475.70	7,939.99	7,863.27	76.72	103.493		
7,900.00	7,249.95	7,582.98	7,451.55	56.30	31.66	72.35	-6,071.61	2,475.00	7,934.73	7,857.60	77.13	102.877		
7,950.00	7,296.14	7,615.93	7,484.47	56.50	31.75	61.13	-6,070.80	2,474.40	7,925.26	7,847.77	77.50	102.268		
8,000.00	7,341.56	7,647.22	7,515.76	56.64	31.83	51.85	-6,070.08	2,473.88	7,911.67	7,833.83	77.83	101.647		
8,050.00	7,385.86	7,683.00	7,551.52	56.74	31.92	44.48	-6,069.32	2,473.36	7,894.05	7,815.89	78.16	100.994		
8,100.00	7,428.71	7,719.21	7,587.72	56.79	32.03	38.70	-6,068.57	2,473.07	7,872.50	7,794.02	78.48	100.311		
8,150.00	7,469.77	7,761.67	7,630.17	56.80	32.15	34.17	-6,067.66	2,473.25	7,847.13	7,768.33	78.80	99.586		
8,200.00	7,508.75	7,802.19	7,670.68	56.77	32.26	30.57	-6,066.77	2,473.93	7,818.12	7,739.03	79.09	98.855		
8,250.00	7,545.33	7,840.39	7,708.86	56.70	32.37	27.67	-6,065.89	2,475.04	7,785.68	7,706.33	79.35	98.121		
8,300.00	7,579.25	7,879.44	7,747.86	56.59	32.49	25.31	-6,064.96	2,476.62	7,750.06	7,670.46	79.59	97.371		
8,350.00	7,610.24	7,940.78	7,809.12	56.45	32.67	23.42	-6,063.35	2,479.26	7,711.45	7,631.55	79.91	96.507		
8,400.00	7,638.06	7,988.65	7,856.93	56.28	32.82	21.78	-6,061.93	2,481.20	7,670.14	7,589.99	80.15	95.698		
8,450.00	7,662.52	8,024.88	7,893.12	56.09	32.93	20.29	-6,060.78	2,482.52	7,626.50	7,546.17	80.33	94.937		
8,500.00	7,683.41	8,055.16	7,923.37	55.88	33.02	18.84	-6,059.78	2,483.50	7,580.88	7,500.40	80.48	94.197		
8,550.00	7,700.59	8,079.34	7,947.52	55.64	33.09	17.19	-6,058.95	2,484.21	7,533.63	7,453.04	80.59	93.481		
8,600.00	7,713.91	8,087.75	7,955.92	55.39	33.11	14.73	-6,058.67	2,484.45	7,485.16	7,404.53	80.63	92.831		
8,650.00	7,723.29	8,096.48	7,964.65	55.14	33.14	9.46	-6,058.37	2,484.68	7,435.81	7,355.14	80.66	92.182		
8,700.00	7,728.64	8,100.62	7,968.78	54.87	33.15	-20.62	-6,058.23	2,484.79	7,385.96	7,305.28	80.67	91.554		
8,740.83	7,730.00	8,100.58	7,968.74	54.65	33.15	-131.33	-6,058.23	2,484.78	7,345.15	7,264.49	80.66	91.061		
8,800.00	7,730.00	8,098.30	7,966.46	54.33	33.14	-131.07	-6,058.31	2,484.73	7,286.06	7,205.42	80.64	90.358		
8,900.00	7,730.00	8,094.45	7,962.62	53.82	33.13	-130.63	-6,058.44	2,484.62	7,186.19	7,105.60	80.59	89.170		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	8,090.61	7,958.78	53.33	33.12	-130.19	-6,058.57	2,484.52	7,086.32	7,005.77	80.54	87.981		
9,100.00	7,730.00	8,086.78	7,954.95	52.87	33.11	-129.73	-6,058.70	2,484.42	6,986.45	6,905.95	80.50	86.791		
9,200.00	7,730.00	8,082.96	7,951.13	52.44	33.10	-129.28	-6,058.83	2,484.31	6,886.59	6,806.14	80.45	85.600		
9,300.00	7,730.00	8,079.14	7,947.32	52.03	33.09	-128.82	-6,058.96	2,484.21	6,786.73	6,706.32	80.40	84.408		
9,400.00	7,730.00	8,079.70	7,947.88	51.65	33.09	-128.88	-6,058.94	2,484.22	6,686.86	6,606.49	80.37	83.197		
9,500.00	7,730.00	8,074.68	7,942.87	51.29	33.08	-128.27	-6,059.11	2,484.08	6,587.01	6,506.69	80.32	82.009		
9,600.00	7,730.00	8,069.72	7,937.91	50.95	33.06	-127.65	-6,059.28	2,483.94	6,487.15	6,406.89	80.27	80.819		
9,700.00	7,730.00	8,064.82	7,933.02	50.64	33.05	-127.03	-6,059.45	2,483.79	6,387.30	6,307.09	80.21	79.629		
9,800.00	7,730.00	8,059.98	7,928.18	50.35	33.03	-126.40	-6,059.62	2,483.65	6,287.45	6,207.29	80.16	78.437		
9,900.00	7,730.00	8,055.20	7,923.41	50.09	33.02	-125.77	-6,059.78	2,483.50	6,187.60	6,107.50	80.10	77.244		
10,000.00	7,730.00	8,050.47	7,918.68	49.86	33.00	-125.14	-6,059.94	2,483.36	6,087.76	6,007.71	80.05	76.051		
10,100.00	7,730.00	8,045.80	7,914.01	49.65	32.99	-124.51	-6,060.09	2,483.21	5,987.92	5,907.92	79.99	74.856		
10,200.00	7,730.00	8,041.18	7,909.40	49.48	32.98	-123.87	-6,060.25	2,483.06	5,888.08	5,808.14	79.94	73.660		
10,300.00	7,730.00	8,036.62	7,904.84	49.35	32.96	-123.23	-6,060.40	2,482.91	5,788.24	5,708.36	79.88	72.464		
10,400.00	7,730.00	8,032.10	7,900.33	49.27	32.95	-122.59	-6,060.54	2,482.76	5,688.40	5,608.59	79.82	71.267		
10,500.00	7,730.00	8,027.64	7,895.88	49.26	32.94	-121.95	-6,060.69	2,482.61	5,588.57	5,508.82	79.76	70.069		
10,600.00	7,730.00	8,023.23	7,891.47	49.32	32.92	-121.30	-6,060.83	2,482.46	5,488.75	5,409.05	79.70	68.870		
10,700.00	7,730.00	8,018.87	7,887.11	49.51	32.91	-120.65	-6,060.97	2,482.31	5,388.92	5,309.29	79.63	67.671		
10,800.00	7,730.00	8,014.55	7,882.80	49.83	32.90	-120.00	-6,061.11	2,482.16	5,289.10	5,209.53	79.57	66.470		
10,900.00	7,730.00	8,010.29	7,878.54	50.31	32.88	-119.35	-6,061.25	2,482.01	5,189.29	5,109.78	79.51	65.269		
11,000.00	7,730.00	8,006.07	7,874.33	50.96	32.87	-118.69	-6,061.38	2,481.85	5,089.48	5,010.04	79.44	64.067		
11,100.00	7,730.00	8,001.90	7,870.16	51.75	32.86	-118.04	-6,061.51	2,481.70	4,989.67	4,910.30	79.37	62.865		
11,200.00	7,730.00	7,997.77	7,866.04	52.66	32.85	-117.38	-6,061.64	2,481.55	4,889.87	4,810.57	79.30	61.662		
11,300.00	7,730.00	7,993.69	7,861.97	53.67	32.83	-116.72	-6,061.77	2,481.39	4,790.08	4,710.85	79.23	60.458		
11,400.00	7,730.00	7,989.66	7,857.94	54.75	32.82	-116.06	-6,061.89	2,481.24	4,690.29	4,611.13	79.16	59.254		
11,500.00	7,730.00	7,985.66	7,853.95	55.89	32.81	-115.40	-6,062.02	2,481.09	4,590.51	4,511.43	79.08	58.049		
11,600.00	7,730.00	7,983.32	7,851.61	57.07	32.80	-115.01	-6,062.09	2,481.01	4,490.73	4,411.72	79.01	56.837		
11,700.00	7,730.00	7,978.94	7,847.24	58.30	32.79	-114.28	-6,062.22	2,480.83	4,390.96	4,312.04	78.93	55.633		
11,800.00	7,730.00	7,974.64	7,842.94	59.55	32.78	-113.54	-6,062.35	2,480.66	4,291.20	4,212.36	78.84	54.429		
11,900.00	7,730.00	7,970.42	7,838.72	60.84	32.76	-112.81	-6,062.48	2,480.49	4,191.45	4,112.70	78.75	53.223		
12,000.00	7,730.00	7,966.26	7,834.57	62.15	32.75	-112.09	-6,062.61	2,480.32	4,091.71	4,013.05	78.66	52.017		
12,100.00	7,730.00	7,962.18	7,830.49	63.49	32.74	-111.36	-6,062.73	2,480.15	3,991.98	3,913.42	78.57	50.810		
12,200.00	7,730.00	7,958.17	7,826.49	64.85	32.73	-110.65	-6,062.85	2,479.99	3,892.26	3,813.79	78.47	49.603		
12,300.00	7,730.00	7,954.23	7,822.55	66.22	32.72	-109.94	-6,062.96	2,479.82	3,792.55	3,714.19	78.37	48.396		
12,400.00	7,730.00	7,950.35	7,818.68	67.62	32.70	-109.23	-6,063.07	2,479.66	3,692.85	3,614.59	78.26	47.187		
12,500.00	7,730.00	7,946.54	7,814.87	69.03	32.69	-108.53	-6,063.18	2,479.50	3,593.17	3,515.02	78.15	45.978		
12,600.00	7,730.00	7,942.79	7,811.12	70.45	32.68	-107.83	-6,063.29	2,479.35	3,493.50	3,415.47	78.03	44.769		
12,700.00	7,730.00	7,939.10	7,807.44	71.90	32.67	-107.14	-6,063.39	2,479.19	3,393.85	3,315.94	77.91	43.559		
12,800.00	7,730.00	7,935.47	7,803.82	73.35	32.66	-106.45	-6,063.50	2,479.04	3,294.22	3,216.43	77.79	42.349		
12,900.00	7,730.00	7,931.90	7,800.25	74.81	32.65	-105.77	-6,063.60	2,478.89	3,194.60	3,116.95	77.66	41.138		
13,000.00	7,730.00	7,928.39	7,796.74	76.29	32.64	-105.10	-6,063.69	2,478.74	3,095.01	3,017.49	77.52	39.927		
13,100.00	7,730.00	7,924.93	7,793.29	77.78	32.63	-104.43	-6,063.79	2,478.60	2,995.44	2,918.07	77.37	38.715		
13,200.00	7,730.00	7,921.53	7,789.89	79.28	32.62	-103.76	-6,063.88	2,478.45	2,895.90	2,818.68	77.22	37.503		
13,300.00	7,730.00	7,918.18	7,786.55	80.79	32.60	-103.11	-6,063.97	2,478.31	2,796.39	2,719.33	77.06	36.290		
13,400.00	7,730.00	7,914.88	7,783.26	82.31	32.59	-102.45	-6,064.06	2,478.17	2,696.91	2,620.02	76.89	35.076		
13,500.00	7,730.00	7,911.64	7,780.01	83.84	32.58	-101.81	-6,064.14	2,478.03	2,597.47	2,520.76	76.71	33.862		
13,600.00	7,730.00	7,908.44	7,776.82	85.37	32.58	-101.17	-6,064.23	2,477.89	2,498.06	2,421.55	76.52	32.647		
13,700.00	7,730.00	7,905.29	7,773.68	86.92	32.57	-100.54	-6,064.31	2,477.75	2,398.71	2,322.39	76.32	31.431		
13,800.00	7,730.00	7,902.19	7,770.58	88.47	32.56	-99.91	-6,064.39	2,477.62	2,299.41	2,223.30	76.11	30.214		
13,900.00	7,730.00	7,899.14	7,767.53	90.03	32.55	-99.29	-6,064.47	2,477.49	2,200.16	2,124.28	75.88	28.995		
14,000.00	7,730.00	7,896.13	7,764.52	91.59	32.54	-98.68	-6,064.55	2,477.36	2,100.99	2,025.34	75.64	27.775		
14,100.00	7,730.00	7,893.16	7,761.56	93.16	32.53	-98.07	-6,064.62	2,477.23	2,001.89	1,926.50	75.39	26.553		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,890.24	7,758.64	94.74	32.52	-97.47	-6,064.70	2,477.10	1,902.88	1,827.75	75.13	25.329		
14,300.00	7,730.00	7,887.36	7,755.77	96.33	32.51	-96.88	-6,064.77	2,476.97	1,803.98	1,729.13	74.85	24.102		
14,400.00	7,730.00	7,884.52	7,752.93	97.92	32.50	-96.29	-6,064.84	2,476.85	1,705.20	1,630.65	74.56	22.871		
14,500.00	7,730.00	7,881.72	7,750.14	99.51	32.49	-95.71	-6,064.91	2,476.72	1,606.57	1,532.32	74.25	21.636		
14,600.00	7,730.00	7,878.97	7,747.38	101.11	32.49	-95.14	-6,064.97	2,476.60	1,508.11	1,434.17	73.95	20.395		
14,700.00	7,730.00	7,876.25	7,744.67	102.72	32.48	-94.57	-6,065.04	2,476.48	1,409.87	1,336.23	73.64	19.146		
14,800.00	7,730.00	7,873.57	7,741.99	104.33	32.47	-94.01	-6,065.10	2,476.36	1,311.89	1,238.54	73.35	17.886		
14,900.00	7,730.00	7,871.07	7,739.50	105.94	32.46	-93.49	-6,065.16	2,476.25	1,214.23	1,141.14	73.09	16.613		
15,000.00	7,730.00	7,868.80	7,737.24	107.56	32.45	-93.01	-6,065.22	2,476.15	1,116.98	1,044.08	72.91	15.321		
15,100.00	7,730.00	7,866.55	7,734.98	109.18	32.45	-92.53	-6,065.27	2,476.05	1,020.26	947.41	72.85	14.004		
15,200.00	7,730.00	7,864.30	7,732.74	110.81	32.44	-92.06	-6,065.33	2,475.96	924.23	851.21	73.02	12.657		
15,300.00	7,730.00	7,862.06	7,730.50	112.44	32.44	-91.59	-6,065.38	2,475.86	829.13	755.55	73.58	11.268		
15,400.00	7,730.00	7,859.83	7,728.27	114.08	32.43	-91.12	-6,065.43	2,475.77	735.33	660.53	74.80	9.830		
15,500.00	7,730.00	7,857.61	7,726.05	115.72	32.42	-90.65	-6,065.48	2,475.68	643.39	566.25	77.15	8.340		
15,600.00	7,730.00	7,855.39	7,723.84	117.36	32.42	-90.18	-6,065.54	2,475.59	554.24	472.89	81.34	6.814		
15,700.00	7,730.00	7,853.18	7,721.63	119.00	32.41	-89.71	-6,065.59	2,475.51	469.46	380.93	88.53	5.303		
15,800.00	7,730.00	7,850.99	7,719.44	120.65	32.40	-89.24	-6,065.64	2,475.42	391.92	291.69	100.23	3.910		
15,900.00	7,730.00	7,848.79	7,717.25	122.30	32.40	-88.78	-6,065.69	2,475.34	326.80	209.13	117.68	2.777		
16,000.00	7,730.00	7,846.61	7,715.07	123.96	32.39	-88.32	-6,065.74	2,475.26	282.82	143.84	138.98	2.035		
16,084.14	7,730.00	7,844.78	7,713.24	125.35	32.39	-87.93	-6,065.79	2,475.19	270.02	116.62	153.40	1.760 CC		
16,100.00	7,730.00	7,844.44	7,712.90	125.61	32.38	-87.86	-6,065.79	2,475.18	270.49	115.36	155.12	1.744 ES, SF		
16,200.00	7,730.00	7,842.27	7,710.73	127.27	32.38	-87.40	-6,065.84	2,475.10	293.82	136.48	157.34	1.867		
16,300.00	7,730.00	7,840.11	7,708.58	128.94	32.37	-86.94	-6,065.90	2,475.03	345.67	196.17	149.50	2.312		
16,400.00	7,730.00	7,837.96	7,706.43	130.60	32.37	-86.48	-6,065.95	2,474.95	415.49	276.13	139.36	2.981		
16,500.00	7,730.00	7,835.82	7,704.29	132.27	32.36	-86.03	-6,066.00	2,474.88	495.75	365.35	130.40	3.802		
16,600.00	7,730.00	7,833.69	7,702.15	133.94	32.35	-85.58	-6,066.04	2,474.81	582.14	458.91	123.23	4.724		
16,700.00	7,730.00	7,831.56	7,700.03	135.61	32.35	-85.13	-6,066.09	2,474.74	672.32	554.68	117.63	5.715		
16,800.00	7,730.00	7,829.44	7,697.91	137.28	32.34	-84.68	-6,066.14	2,474.67	764.93	651.69	113.24	6.755		
16,900.00	7,730.00	7,827.33	7,695.80	138.96	32.34	-84.23	-6,066.19	2,474.61	859.19	749.44	109.75	7.828		
17,000.00	7,730.00	7,825.23	7,693.70	140.64	32.33	-83.79	-6,066.24	2,474.54	954.62	847.67	106.94	8.926		
17,100.00	7,730.00	7,823.13	7,691.61	142.32	32.32	-83.35	-6,066.29	2,474.48	1,050.89	946.24	104.65	10.042		
17,200.00	7,730.00	7,821.04	7,689.52	144.00	32.32	-82.91	-6,066.34	2,474.42	1,147.80	1,045.05	102.74	11.171		
17,300.00	7,730.00	7,818.96	7,687.44	145.69	32.31	-82.47	-6,066.38	2,474.36	1,245.19	1,144.04	101.15	12.311		
17,400.00	7,730.00	7,816.89	7,685.37	147.37	32.31	-82.04	-6,066.43	2,474.30	1,342.96	1,243.17	99.79	13.457		
17,500.00	7,730.00	7,814.82	7,683.30	149.06	32.30	-81.60	-6,066.48	2,474.25	1,441.04	1,342.40	98.63	14.610		
17,600.00	7,730.00	7,812.76	7,681.25	150.75	32.29	-81.17	-6,066.53	2,474.19	1,539.35	1,441.72	97.63	15.767		
17,700.00	7,730.00	7,810.71	7,679.20	152.44	32.29	-80.74	-6,066.57	2,474.14	1,637.87	1,541.12	96.76	16.928		
17,800.00	7,730.00	7,808.67	7,677.15	154.13	32.28	-80.32	-6,066.62	2,474.09	1,736.56	1,640.57	95.99	18.091		
17,900.00	7,730.00	7,806.63	7,675.12	155.83	32.28	-79.90	-6,066.66	2,474.04	1,835.39	1,740.07	95.32	19.255		
18,000.00	7,730.00	7,804.60	7,673.09	157.52	32.27	-79.48	-6,066.71	2,473.99	1,934.33	1,839.61	94.72	20.422		
18,100.00	7,730.00	7,802.58	7,671.07	159.22	32.26	-79.06	-6,066.76	2,473.94	2,033.38	1,939.19	94.19	21.589		
18,200.00	7,730.00	7,800.57	7,669.06	160.92	32.26	-78.64	-6,066.80	2,473.89	2,132.51	2,038.80	93.71	22.757		
18,300.00	7,730.00	7,798.56	7,667.05	162.62	32.25	-78.23	-6,066.85	2,473.85	2,231.72	2,138.44	93.28	23.925		
18,400.00	7,730.00	7,796.56	7,665.05	164.32	32.25	-77.82	-6,066.89	2,473.80	2,330.99	2,238.10	92.89	25.094		
18,426.22	7,730.00	7,796.04	7,664.53	164.76	32.25	-77.71	-6,066.90	2,473.79	2,357.03	2,264.23	92.80	25.400		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	148.60	-5,442.61	3,322.68	6,376.74					
100.00	100.00	59.26	59.26	0.13	0.09	148.60	-5,442.75	3,322.59	6,376.79	6,376.57	0.22	N/A		
200.00	200.00	165.00	164.99	0.49	0.44	148.61	-5,443.33	3,321.53	6,376.72	6,375.79	0.93	6,858.725		
212.61	212.61	188.62	188.61	0.54	0.52	148.61	-5,443.50	3,321.14	6,376.65	6,375.59	1.06	6,019.843		
300.00	300.00	224.25	224.23	0.85	0.65	148.62	-5,443.93	3,320.71	6,377.00	6,375.50	1.50	4,251.048		
400.00	400.00	255.00	254.98	1.21	0.76	148.62	-5,444.48	3,320.49	6,378.30	6,376.33	1.97	3,238.841		
500.00	500.00	300.72	300.68	1.57	0.92	148.63	-5,445.63	3,320.47	6,380.53	6,378.04	2.49	2,562.022		
600.00	600.00	349.00	348.93	1.93	1.10	148.63	-5,447.33	3,320.85	6,383.80	6,380.78	3.02	2,113.611		
700.00	700.00	384.82	384.71	2.29	1.22	148.64	-5,448.83	3,321.35	6,387.95	6,384.45	3.51	1,822.210		
800.00	800.00	441.00	440.82	2.64	1.43	148.64	-5,451.45	3,322.39	6,392.88	6,388.82	4.06	1,573.776		
900.00	900.00	479.94	479.70	3.00	1.57	148.64	-5,453.54	3,323.29	6,398.63	6,394.07	4.56	1,403.835		
1,000.00	1,000.00	536.00	535.62	3.36	1.77	148.65	-5,457.11	3,324.75	6,405.31	6,400.19	5.11	1,252.360		
1,100.00	1,100.00	536.00	535.62	3.72	1.77	148.65	-5,457.11	3,324.75	6,412.96	6,407.49	5.47	1,172.576		
1,200.00	1,200.00	588.58	588.02	4.08	1.97	148.65	-5,461.21	3,326.39	6,421.48	6,415.46	6.01	1,067.796		
1,300.00	1,299.98	623.00	622.27	4.43	2.10	101.35	-5,464.36	3,327.65	6,431.51	6,425.02	6.49	991.356		
1,400.00	1,399.84	667.85	666.86	4.79	2.28	101.15	-5,468.87	3,329.44	6,443.15	6,436.15	7.00	920.487		
1,500.00	1,499.45	711.00	709.72	5.15	2.44	100.93	-5,473.48	3,331.26	6,456.25	6,448.74	7.51	860.043		
1,600.00	1,598.70	748.51	746.94	5.51	2.59	100.68	-5,477.73	3,333.11	6,470.91	6,462.91	8.00	808.881		
1,700.00	1,697.47	798.00	795.98	5.89	2.79	100.43	-5,483.66	3,336.23	6,487.28	6,478.74	8.55	759.113		
1,800.00	1,795.62	798.00	795.98	6.28	2.79	100.07	-5,483.66	3,336.23	6,505.22	6,496.30	8.92	729.309		
1,900.00	1,893.06	857.09	854.40	6.69	3.04	99.80	-5,491.30	3,340.62	6,524.58	6,515.04	9.54	684.224		
2,000.00	1,989.64	885.00	881.96	7.13	3.16	99.44	-5,495.13	3,342.83	6,545.52	6,535.47	10.06	650.961		
2,100.00	2,085.27	922.39	918.82	7.61	3.32	99.08	-5,500.53	3,346.03	6,568.00	6,557.35	10.64	617.230		
2,200.00	2,179.82	973.00	968.58	8.12	3.54	98.74	-5,508.35	3,350.94	6,592.17	6,580.86	11.31	582.910		
2,300.00	2,273.17	990.74	985.99	8.67	3.62	98.28	-5,511.20	3,352.77	6,617.63	6,605.74	11.89	556.725		
2,400.00	2,365.21	1,060.00	1,053.97	9.27	3.93	97.97	-5,522.42	3,359.87	6,644.25	6,631.54	12.71	522.824		
2,500.00	2,455.84	1,112.49	1,105.44	9.92	4.17	97.59	-5,531.16	3,365.29	6,671.93	6,658.42	13.51	493.862		
2,580.62	2,527.80	1,194.58	1,185.88	10.49	4.56	97.44	-5,545.07	3,373.91	6,695.02	6,680.66	14.35	466.456		
2,600.00	2,544.97	1,222.73	1,213.49	10.63	4.69	97.56	-5,549.74	3,376.86	6,700.57	6,685.97	14.59	459.108		
2,700.00	2,633.58	1,375.65	1,363.70	11.37	5.40	98.18	-5,573.84	3,392.34	6,728.37	6,712.48	15.89	423.431		
2,800.00	2,722.19	1,420.00	1,407.26	12.13	5.61	98.36	-5,581.01	3,396.61	6,756.80	6,740.04	16.76	403.207		
2,900.00	2,810.80	1,488.72	1,474.70	12.91	5.94	98.64	-5,592.47	3,403.17	6,785.87	6,768.13	17.74	382.492		
3,000.00	2,899.41	1,538.62	1,523.64	13.71	6.18	98.84	-5,600.99	3,407.91	6,815.54	6,796.88	18.66	365.314		
3,100.00	2,988.02	1,595.00	1,578.85	14.52	6.45	99.07	-5,611.00	3,413.37	6,846.01	6,826.40	19.61	349.151		
3,200.00	3,076.63	1,632.03	1,615.07	15.34	6.63	99.22	-5,617.80	3,416.96	6,877.20	6,856.71	20.48	335.780		
3,300.00	3,165.24	1,687.00	1,668.80	16.16	6.91	99.45	-5,628.17	3,422.19	6,909.07	6,887.63	21.44	322.304		
3,400.00	3,253.85	1,761.30	1,741.38	17.00	7.28	99.75	-5,642.34	3,429.37	6,941.44	6,918.96	22.48	308.767		
3,500.00	3,342.46	2,135.40	2,108.13	17.84	9.10	101.20	-5,705.82	3,466.56	6,973.11	6,948.27	24.85	280.639		
3,600.00	3,431.07	2,188.22	2,160.11	18.69	9.35	101.40	-5,713.65	3,471.73	7,002.74	6,976.93	25.81	271.308		
3,700.00	3,519.68	2,238.97	2,210.02	19.55	9.59	101.59	-5,721.57	3,476.43	7,033.04	7,006.27	26.77	262.758		
3,800.00	3,608.29	2,293.00	2,263.10	20.40	9.85	101.80	-5,730.26	3,481.51	7,064.02	7,036.28	27.74	254.692		
3,900.00	3,696.90	2,340.22	2,309.45	21.26	10.08	101.98	-5,738.04	3,486.11	7,095.66	7,066.99	28.67	247.457		
4,000.00	3,785.51	2,499.60	2,465.94	22.13	10.85	102.56	-5,763.49	3,502.35	7,127.34	7,097.22	30.12	236.644		
4,100.00	3,874.12	2,555.00	2,520.36	23.00	11.11	102.77	-5,772.31	3,507.83	7,159.05	7,127.96	31.09	230.233		
4,200.00	3,962.73	2,555.00	2,520.36	23.87	11.11	102.77	-5,772.31	3,507.83	7,191.59	7,159.78	31.82	226.043		
4,300.00	4,051.34	2,599.90	2,564.37	24.74	11.34	102.93	-5,779.99	3,512.25	7,224.92	7,192.18	32.74	220.694		
4,400.00	4,139.95	2,643.00	2,606.51	25.62	11.55	103.09	-5,787.97	3,516.53	7,259.31	7,225.67	33.65	215.748		
4,500.00	4,228.56	2,806.15	2,766.14	26.49	12.37	103.69	-5,817.44	3,532.87	7,293.97	7,258.84	35.12	207.661		
4,600.00	4,317.17	2,869.58	2,828.27	27.37	12.69	103.92	-5,828.26	3,539.63	7,328.07	7,291.94	36.13	202.822		
4,700.00	4,405.78	2,925.53	2,883.03	28.25	12.97	104.12	-5,837.97	3,545.80	7,362.72	7,325.62	37.10	198.463		
4,800.00	4,494.39	2,981.83	2,938.09	29.13	13.25	104.31	-5,847.96	3,552.02	7,397.91	7,359.85	38.07	194.343		
4,900.00	4,583.00	3,177.62	3,129.85	30.02	14.22	105.02	-5,882.97	3,570.31	7,432.98	7,393.28	39.70	187.221		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	3,237.83	3,188.89	30.90	14.52	105.23	-5,893.46	3,575.70	7,467.70	7,427.01	40.68	183.554		
5,100.00	4,760.22	3,334.39	3,283.56	31.79	15.00	105.57	-5,910.19	3,584.75	7,502.70	7,460.86	41.84	179.318		
5,200.00	4,848.83	3,444.37	3,391.46	32.67	15.53	105.96	-5,929.38	3,593.73	7,537.67	7,494.61	43.06	175.063		
5,300.00	4,937.44	3,528.76	3,474.27	33.56	15.94	106.25	-5,943.69	3,601.46	7,572.73	7,528.58	44.15	171.521		
5,400.00	5,026.05	3,615.19	3,559.06	34.45	16.37	106.54	-5,958.05	3,610.16	7,607.99	7,562.73	45.26	168.113		
5,500.00	5,114.66	3,880.36	3,819.85	35.34	17.63	107.44	-5,999.93	3,633.40	7,642.38	7,595.17	47.22	161.856		
5,600.00	5,203.27	3,950.43	3,888.91	36.23	17.95	107.67	-6,010.41	3,639.00	7,676.11	7,627.87	48.24	159.133		
5,700.00	5,291.88	3,999.47	3,937.19	37.12	18.18	107.83	-6,017.74	3,643.43	7,710.31	7,661.16	49.16	156.855		
5,800.00	5,380.50	4,061.69	3,998.39	38.01	18.48	108.03	-6,027.22	3,649.45	7,745.11	7,694.98	50.14	154.484		
5,900.00	5,469.11	4,147.58	4,082.88	38.90	18.89	108.31	-6,040.26	3,657.73	7,780.05	7,728.83	51.23	151.869		
6,000.00	5,557.72	5,491.40	5,418.68	39.79	24.01	112.71	-6,154.49	3,708.32	7,804.84	7,747.32	57.51	135.702		
6,100.00	5,646.33	5,881.52	5,808.66	40.68	25.06	114.01	-6,156.17	3,699.34	7,825.41	7,765.92	59.49	131.549		
6,200.00	5,734.94	5,974.22	5,901.31	41.58	25.29	114.31	-6,154.55	3,696.99	7,843.74	7,783.20	60.54	129.565		
6,300.00	5,823.55	6,067.68	5,994.73	42.47	25.52	114.62	-6,152.80	3,694.81	7,862.26	7,800.67	61.59	127.653		
6,400.00	5,912.16	6,163.30	6,090.32	43.36	25.76	114.92	-6,150.85	3,692.88	7,880.94	7,818.29	62.65	125.796		
6,500.00	6,000.77	6,264.68	6,191.66	44.26	26.02	115.25	-6,148.57	3,691.15	7,899.76	7,836.04	63.72	123.975		
6,600.00	6,089.38	6,374.44	6,301.37	45.15	26.30	115.59	-6,145.82	3,689.38	7,918.59	7,853.78	64.81	122.172		
6,700.00	6,177.99	6,449.14	6,376.03	46.05	26.50	115.82	-6,143.84	3,688.27	7,937.57	7,871.76	65.81	120.618		
6,800.00	6,266.60	6,515.33	6,442.20	46.94	26.67	116.03	-6,142.22	3,687.53	7,957.01	7,890.24	66.77	119.167		
6,900.00	6,355.21	6,584.14	6,510.99	47.84	26.85	116.24	-6,140.67	3,687.03	7,976.91	7,909.17	67.74	117.755		
7,000.00	6,443.82	6,666.41	6,593.24	48.74	27.08	116.49	-6,138.84	3,686.86	7,997.17	7,928.41	68.75	116.317		
7,100.00	6,532.43	6,749.17	6,675.97	49.63	27.30	116.73	-6,136.93	3,687.22	8,017.70	7,947.93	69.76	114.926		
7,200.00	6,621.04	6,833.43	6,760.21	50.53	27.54	116.98	-6,134.99	3,687.88	8,038.49	7,967.70	70.78	113.569		
7,300.00	6,709.65	6,917.73	6,844.48	51.42	27.77	117.23	-6,133.07	3,688.64	8,059.53	7,987.73	71.79	112.258		
7,400.00	6,798.26	7,002.04	6,928.77	52.32	28.01	117.47	-6,131.20	3,689.48	8,080.81	8,008.01	72.81	110.987		
7,500.00	6,886.87	7,086.38	7,013.08	53.22	28.25	117.71	-6,129.36	3,690.41	8,102.35	8,028.53	73.82	109.759		
7,600.00	6,975.48	7,169.90	7,096.57	54.12	28.49	117.95	-6,127.58	3,691.40	8,124.13	8,049.30	74.83	108.573		
7,656.30	7,025.36	7,216.87	7,143.53	54.62	28.63	118.09	-6,126.60	3,692.00	8,136.50	8,061.11	75.39	107.923		
7,700.00	7,064.54	7,253.74	7,180.39	55.00	28.74	111.20	-6,125.84	3,692.48	8,144.56	8,068.73	75.83	107.408		
7,750.00	7,110.29	7,304.08	7,230.72	55.40	28.88	101.39	-6,124.81	3,693.12	8,149.86	8,073.51	76.34	106.752		
7,800.00	7,156.67	7,359.45	7,286.07	55.75	29.04	89.66	-6,123.68	3,693.61	8,150.88	8,074.02	76.86	106.047		
7,850.00	7,203.34	7,414.88	7,341.49	56.05	29.20	76.78	-6,122.53	3,693.86	8,147.61	8,070.25	77.36	105.324		
7,900.00	7,249.95	7,469.94	7,396.54	56.30	29.36	64.07	-6,121.37	3,693.88	8,140.06	8,062.24	77.83	104.592		
7,950.00	7,296.14	7,508.05	7,434.64	56.50	29.47	52.66	-6,120.60	3,693.88	8,128.37	8,050.16	78.21	103.928		
8,000.00	7,341.56	7,550.60	7,477.18	56.64	29.59	43.14	-6,119.75	3,693.83	8,112.60	8,034.02	78.58	103.237		
8,050.00	7,385.86	7,592.01	7,518.58	56.74	29.71	35.42	-6,118.94	3,693.75	8,092.87	8,013.95	78.92	102.545		
8,100.00	7,428.71	7,631.07	7,557.64	56.79	29.82	29.17	-6,118.19	3,693.66	8,069.32	7,990.09	79.22	101.856		
8,150.00	7,469.77	7,666.68	7,593.25	56.80	29.93	24.04	-6,117.53	3,693.60	8,042.13	7,962.64	79.49	101.176		
8,200.00	7,508.75	7,700.45	7,627.01	56.77	30.02	19.68	-6,116.91	3,693.59	8,011.51	7,931.79	79.72	100.498		
8,250.00	7,545.33	7,732.10	7,658.66	56.70	30.12	15.81	-6,116.34	3,693.61	7,977.68	7,897.77	79.92	99.825		
8,300.00	7,579.25	7,761.41	7,687.95	56.59	30.20	12.20	-6,115.82	3,693.67	7,940.89	7,860.81	80.08	99.159		
8,350.00	7,610.24	7,788.13	7,714.67	56.45	30.28	8.59	-6,115.36	3,693.74	7,901.41	7,821.19	80.22	98.503		
8,400.00	7,638.06	7,814.60	7,741.14	56.28	30.36	4.69	-6,114.91	3,693.83	7,859.53	7,779.20	80.33	97.846		
8,450.00	7,662.52	7,838.32	7,764.85	56.09	30.43	0.12	-6,114.50	3,693.91	7,815.55	7,735.15	80.41	97.201		
8,500.00	7,683.41	7,858.44	7,784.97	55.88	30.49	-5.77	-6,114.16	3,693.97	7,769.82	7,689.37	80.45	96.574		
8,550.00	7,700.59	7,874.81	7,801.34	55.64	30.54	-14.09	-6,113.88	3,694.03	7,722.68	7,642.21	80.47	95.966		
8,600.00	7,713.91	7,887.31	7,813.84	55.39	30.57	-26.88	-6,113.66	3,694.07	7,674.49	7,594.03	80.46	95.378		
8,650.00	7,723.29	7,895.85	7,822.38	55.14	30.60	-46.99	-6,113.52	3,694.10	7,625.62	7,545.20	80.43	94.814		
8,700.00	7,728.64	7,900.35	7,826.88	54.87	30.61	-73.93	-6,113.44	3,694.12	7,576.45	7,496.09	80.36	94.276		
8,740.83	7,730.00	7,901.01	7,827.54	54.65	30.61	-94.67	-6,113.43	3,694.12	7,536.34	7,456.04	80.30	93.856		
8,800.00	7,730.00	7,900.00	7,826.53	54.33	30.61	-94.63	-6,113.44	3,694.12	7,478.35	7,398.16	80.19	93.261		
8,900.00	7,730.00	7,898.29	7,824.82	53.82	30.61	-94.56	-6,113.47	3,694.11	7,380.39	7,300.39	80.00	92.255		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,896.58	7,823.11	53.33	30.60	-94.50	-6,113.50	3,694.10	7,282.49	7,202.68	79.81	91.248		
9,100.00	7,730.00	7,894.87	7,821.40	52.87	30.60	-94.43	-6,113.53	3,694.10	7,184.64	7,105.03	79.62	90.240		
9,200.00	7,730.00	7,893.16	7,819.69	52.44	30.59	-94.37	-6,113.56	3,694.09	7,086.86	7,007.44	79.42	89.232		
9,300.00	7,730.00	7,891.45	7,817.98	52.03	30.59	-94.30	-6,113.59	3,694.09	6,989.13	6,909.91	79.22	88.222		
9,400.00	7,730.00	7,889.74	7,816.27	51.65	30.58	-94.24	-6,113.62	3,694.08	6,891.48	6,812.46	79.02	87.211		
9,500.00	7,730.00	7,888.03	7,814.56	51.29	30.58	-94.17	-6,113.65	3,694.08	6,793.88	6,715.07	78.82	86.199		
9,600.00	7,730.00	7,886.32	7,812.84	50.95	30.57	-94.10	-6,113.68	3,694.07	6,696.36	6,617.76	78.61	85.186		
9,700.00	7,730.00	7,884.61	7,811.13	50.64	30.57	-94.04	-6,113.71	3,694.06	6,598.92	6,520.52	78.40	84.172		
9,800.00	7,730.00	7,882.90	7,809.42	50.35	30.56	-93.97	-6,113.74	3,694.06	6,501.55	6,423.36	78.18	83.157		
9,900.00	7,730.00	7,881.19	7,807.71	50.09	30.56	-93.91	-6,113.77	3,694.05	6,404.26	6,326.29	77.97	82.140		
10,000.00	7,730.00	7,879.47	7,806.00	49.86	30.55	-93.84	-6,113.80	3,694.05	6,307.06	6,229.31	77.75	81.122		
10,100.00	7,730.00	7,877.76	7,804.29	49.65	30.55	-93.78	-6,113.82	3,694.04	6,209.94	6,132.41	77.53	80.101		
10,200.00	7,730.00	7,876.05	7,802.58	49.48	30.54	-93.71	-6,113.85	3,694.03	6,112.92	6,035.62	77.30	79.079		
10,300.00	7,730.00	7,874.34	7,800.87	49.35	30.54	-93.65	-6,113.88	3,694.03	6,015.99	5,938.92	77.07	78.056		
10,400.00	7,730.00	7,872.63	7,799.16	49.27	30.53	-93.58	-6,113.91	3,694.02	5,919.17	5,842.32	76.84	77.029		
10,500.00	7,730.00	7,870.92	7,797.45	49.26	30.52	-93.52	-6,113.94	3,694.02	5,822.45	5,745.84	76.61	76.001		
10,600.00	7,730.00	7,869.21	7,795.74	49.32	30.52	-93.45	-6,113.97	3,694.01	5,725.84	5,649.47	76.38	74.970		
10,700.00	7,730.00	7,867.50	7,794.03	49.51	30.51	-93.38	-6,114.00	3,694.01	5,629.35	5,553.22	76.14	73.936		
10,800.00	7,730.00	7,865.79	7,792.32	49.83	30.51	-93.32	-6,114.03	3,694.00	5,532.99	5,457.09	75.90	72.899		
10,900.00	7,730.00	7,864.08	7,790.61	50.31	30.50	-93.25	-6,114.06	3,693.99	5,436.76	5,361.10	75.66	71.858		
11,000.00	7,730.00	7,862.37	7,788.90	50.96	30.50	-93.19	-6,114.09	3,693.99	5,340.66	5,265.24	75.42	70.814		
11,100.00	7,730.00	7,860.66	7,787.19	51.75	30.49	-93.12	-6,114.12	3,693.98	5,244.71	5,169.54	75.18	69.765		
11,200.00	7,730.00	7,858.95	7,785.48	52.66	30.49	-93.06	-6,114.15	3,693.98	5,148.92	5,073.98	74.94	68.711		
11,300.00	7,730.00	7,857.23	7,783.77	53.67	30.48	-92.99	-6,114.18	3,693.97	5,053.28	4,978.59	74.70	67.652		
11,400.00	7,730.00	7,855.52	7,782.06	54.75	30.48	-92.92	-6,114.21	3,693.96	4,957.82	4,883.37	74.46	66.587		
11,500.00	7,730.00	7,853.81	7,780.35	55.89	30.47	-92.86	-6,114.23	3,693.96	4,862.54	4,788.32	74.22	65.516		
11,600.00	7,730.00	7,852.10	7,778.63	57.07	30.47	-92.79	-6,114.26	3,693.95	4,767.46	4,693.47	73.99	64.437		
11,700.00	7,730.00	7,850.39	7,776.92	58.30	30.46	-92.73	-6,114.29	3,693.95	4,672.57	4,598.82	73.76	63.350		
11,800.00	7,730.00	7,848.68	7,775.21	59.55	30.46	-92.66	-6,114.32	3,693.94	4,577.91	4,504.37	73.53	62.255		
11,900.00	7,730.00	7,846.97	7,773.50	60.84	30.45	-92.60	-6,114.35	3,693.94	4,483.47	4,410.15	73.32	61.149		
12,000.00	7,730.00	7,845.26	7,771.79	62.15	30.45	-92.53	-6,114.38	3,693.93	4,389.28	4,316.17	73.11	60.033		
12,100.00	7,730.00	7,843.55	7,770.08	63.49	30.44	-92.46	-6,114.41	3,693.92	4,295.36	4,222.44	72.92	58.904		
12,200.00	7,730.00	7,841.83	7,768.37	64.85	30.44	-92.40	-6,114.44	3,693.92	4,201.71	4,128.97	72.74	57.762		
12,300.00	7,730.00	7,840.12	7,766.66	66.22	30.43	-92.33	-6,114.47	3,693.91	4,108.36	4,035.78	72.58	56.604		
12,400.00	7,730.00	7,838.41	7,764.95	67.62	30.43	-92.27	-6,114.50	3,693.91	4,015.33	3,942.90	72.44	55.431		
12,500.00	7,730.00	7,836.70	7,763.24	69.03	30.42	-92.20	-6,114.53	3,693.90	3,922.65	3,850.33	72.32	54.239		
12,600.00	7,730.00	7,834.99	7,761.52	70.45	30.42	-92.14	-6,114.56	3,693.90	3,830.33	3,758.10	72.23	53.027		
12,700.00	7,730.00	7,833.28	7,759.81	71.90	30.41	-92.07	-6,114.59	3,693.89	3,738.40	3,666.23	72.18	51.794		
12,800.00	7,730.00	7,831.57	7,758.10	73.35	30.41	-92.00	-6,114.62	3,693.88	3,646.90	3,574.74	72.16	50.538		
12,900.00	7,730.00	7,829.85	7,756.39	74.81	30.40	-91.94	-6,114.64	3,693.88	3,555.86	3,483.67	72.19	49.256		
13,000.00	7,730.00	7,828.14	7,754.68	76.29	30.40	-91.87	-6,114.67	3,693.87	3,465.31	3,393.04	72.27	47.947		
13,100.00	7,730.00	7,826.43	7,752.97	77.78	30.39	-91.81	-6,114.70	3,693.87	3,375.29	3,302.88	72.42	46.610		
13,200.00	7,730.00	7,824.72	7,751.26	79.28	30.39	-91.74	-6,114.73	3,693.86	3,285.85	3,213.22	72.63	45.242		
13,300.00	7,730.00	7,823.01	7,749.55	80.79	30.38	-91.68	-6,114.76	3,693.86	3,197.03	3,124.11	72.92	43.843		
13,400.00	7,730.00	7,821.30	7,747.83	82.31	30.38	-91.61	-6,114.79	3,693.85	3,108.90	3,035.59	73.30	42.412		
13,500.00	7,730.00	7,819.58	7,746.12	83.84	30.37	-91.54	-6,114.82	3,693.84	3,021.50	2,947.71	73.79	40.949		
13,600.00	7,730.00	7,817.87	7,744.41	85.37	30.37	-91.48	-6,114.85	3,693.84	2,934.90	2,860.51	74.39	39.454		
13,700.00	7,730.00	7,816.16	7,742.70	86.92	30.36	-91.41	-6,114.88	3,693.83	2,849.18	2,774.06	75.12	37.930		
13,800.00	7,730.00	7,814.45	7,740.99	88.47	30.36	-91.35	-6,114.91	3,693.83	2,764.42	2,688.42	75.99	36.378		
13,900.00	7,730.00	7,812.74	7,739.28	90.03	30.35	-91.28	-6,114.94	3,693.82	2,680.70	2,603.68	77.03	34.803		
14,000.00	7,730.00	7,811.03	7,737.56	91.59	30.35	-91.21	-6,114.97	3,693.81	2,598.14	2,519.91	78.24	33.209		
14,100.00	7,730.00	7,809.31	7,735.85	93.16	30.34	-91.15	-6,115.00	3,693.81	2,516.84	2,437.21	79.64	31.603		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,807.60	7,734.14	94.74	30.34	-91.08	-6,115.03	3,693.80	2,436.94	2,355.68	81.25	29.992		
14,300.00	7,730.00	7,805.89	7,732.43	96.33	30.33	-91.02	-6,115.06	3,693.80	2,358.56	2,275.47	83.09	28.385		
14,400.00	7,730.00	7,804.18	7,730.72	97.92	30.33	-90.95	-6,115.08	3,693.79	2,281.88	2,196.70	85.17	26.791		
14,500.00	7,730.00	7,802.47	7,729.01	99.51	30.32	-90.89	-6,115.11	3,693.79	2,207.06	2,119.55	87.51	25.220		
14,600.00	7,730.00	7,800.75	7,727.29	101.11	30.32	-90.82	-6,115.14	3,693.78	2,134.30	2,044.18	90.12	23.683		
14,700.00	7,730.00	7,799.04	7,725.58	102.72	30.31	-90.75	-6,115.17	3,693.77	2,063.82	1,970.82	93.01	22.190		
14,800.00	7,730.00	7,797.33	7,723.87	104.33	30.31	-90.69	-6,115.20	3,693.77	1,995.87	1,899.69	96.18	20.751		
14,900.00	7,730.00	7,795.62	7,722.16	105.94	30.30	-90.62	-6,115.23	3,693.76	1,930.70	1,831.06	99.65	19.375		
15,000.00	7,730.00	7,793.90	7,720.45	107.56	30.30	-90.56	-6,115.26	3,693.76	1,868.62	1,765.22	103.39	18.073		
15,100.00	7,730.00	7,792.24	7,718.78	109.18	30.29	-90.49	-6,115.29	3,693.75	1,809.93	1,702.51	107.42	16.850		
15,200.00	7,730.00	7,790.62	7,717.17	110.81	30.29	-90.43	-6,115.32	3,693.75	1,754.97	1,643.28	111.69	15.713		
15,300.00	7,730.00	7,789.00	7,715.55	112.44	30.28	-90.37	-6,115.34	3,693.74	1,704.12	1,587.94	116.18	14.668		
15,400.00	7,730.00	7,787.38	7,713.92	114.08	30.28	-90.31	-6,115.37	3,693.74	1,657.74	1,536.89	120.85	13.717		
15,500.00	7,730.00	7,785.76	7,712.30	115.72	30.27	-90.24	-6,115.40	3,693.73	1,616.23	1,490.59	125.64	12.864		
15,600.00	7,730.00	7,784.13	7,710.67	117.36	30.27	-90.18	-6,115.43	3,693.73	1,579.96	1,449.49	130.48	12.109		
15,700.00	7,730.00	7,782.49	7,709.04	119.00	30.26	-90.12	-6,115.46	3,693.72	1,549.31	1,414.03	135.28	11.453		
15,800.00	7,730.00	7,780.86	7,707.40	120.65	30.26	-90.05	-6,115.48	3,693.72	1,524.60	1,384.64	139.96	10.893		
15,900.00	7,730.00	7,779.22	7,705.76	122.30	30.25	-89.99	-6,115.51	3,693.71	1,506.15	1,361.73	144.42	10.429		
16,000.00	7,730.00	7,777.58	7,704.12	123.96	30.25	-89.93	-6,115.54	3,693.71	1,494.17	1,345.60	148.57	10.057		
16,100.00	7,730.00	7,775.93	7,702.48	125.61	30.24	-89.86	-6,115.57	3,693.70	1,488.82	1,336.50	152.32	9.774		
16,129.77	7,730.00	7,775.44	7,701.99	126.11	30.24	-89.85	-6,115.58	3,693.70	1,488.52	1,335.17	153.35	9.707 CC		
16,200.00	7,730.00	7,774.28	7,700.83	127.27	30.24	-89.80	-6,115.60	3,693.70	1,490.18	1,334.57	155.61	9.576 ES		
16,300.00	7,730.00	7,772.63	7,699.18	128.94	30.23	-89.74	-6,115.63	3,693.69	1,498.22	1,339.84	158.38	9.460		
16,400.00	7,730.00	7,770.97	7,697.52	130.60	30.23	-89.67	-6,115.66	3,693.69	1,512.84	1,352.23	160.61	9.419 SF		
16,500.00	7,730.00	7,769.31	7,695.86	132.27	30.23	-89.61	-6,115.68	3,693.68	1,533.86	1,371.57	162.29	9.451		
16,600.00	7,730.00	7,767.65	7,694.20	133.94	30.22	-89.55	-6,115.71	3,693.68	1,561.01	1,397.56	163.45	9.550		
16,700.00	7,730.00	7,765.99	7,692.53	135.61	30.22	-89.48	-6,115.74	3,693.68	1,593.98	1,429.86	164.11	9.713		
16,800.00	7,730.00	7,764.32	7,690.86	137.28	30.21	-89.42	-6,115.77	3,693.67	1,632.41	1,468.07	164.34	9.933		
16,900.00	7,730.00	7,762.64	7,689.19	138.96	30.21	-89.35	-6,115.80	3,693.67	1,675.94	1,511.76	164.17	10.208		
17,000.00	7,730.00	7,760.97	7,687.51	140.64	30.20	-89.29	-6,115.83	3,693.66	1,724.17	1,560.49	163.68	10.534		
17,100.00	7,730.00	7,759.29	7,685.83	142.32	30.20	-89.22	-6,115.86	3,693.66	1,776.73	1,613.81	162.92	10.906		
17,200.00	7,730.00	7,757.60	7,684.15	144.00	30.19	-89.16	-6,115.89	3,693.66	1,833.23	1,671.29	161.94	11.320		
17,300.00	7,730.00	7,755.92	7,682.46	145.69	30.19	-89.09	-6,115.92	3,693.65	1,893.34	1,732.54	160.79	11.775		
17,400.00	7,730.00	7,754.23	7,680.77	147.37	30.18	-89.03	-6,115.95	3,693.65	1,956.71	1,797.18	159.52	12.266		
17,500.00	7,730.00	7,752.53	7,679.08	149.06	30.18	-88.96	-6,115.98	3,693.65	2,023.03	1,864.87	158.16	12.791		
17,600.00	7,730.00	7,750.83	7,677.38	150.75	30.17	-88.90	-6,116.01	3,693.64	2,092.04	1,935.29	156.75	13.347		
17,700.00	7,730.00	7,749.13	7,675.68	152.44	30.17	-88.83	-6,116.04	3,693.64	2,163.47	2,008.17	155.30	13.931		
17,800.00	7,730.00	7,747.43	7,673.98	154.13	30.16	-88.77	-6,116.07	3,693.64	2,237.08	2,083.25	153.83	14.542		
17,900.00	7,730.00	7,745.72	7,672.27	155.83	30.16	-88.70	-6,116.10	3,693.63	2,312.68	2,160.30	152.37	15.178		
18,000.00	7,730.00	7,744.01	7,670.56	157.52	30.15	-88.64	-6,116.13	3,693.63	2,390.07	2,239.14	150.93	15.836		
18,100.00	7,730.00	7,742.29	7,668.84	159.22	30.15	-88.57	-6,116.16	3,693.63	2,469.08	2,319.57	149.51	16.514		
18,200.00	7,730.00	7,740.57	7,667.13	160.92	30.14	-88.50	-6,116.19	3,693.63	2,549.56	2,401.44	148.13	17.212		
18,300.00	7,730.00	7,738.85	7,665.40	162.62	30.14	-88.44	-6,116.22	3,693.62	2,631.39	2,484.61	146.78	17.928		
18,400.00	7,730.00	7,737.13	7,663.68	164.32	30.13	-88.37	-6,116.25	3,693.62	2,714.43	2,568.96	145.47	18.660		
18,426.22	7,730.00	7,736.67	7,663.22	164.76	30.13	-88.35	-6,116.26	3,693.62	2,736.39	2,591.26	145.13	18.855		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	161.12	-5,370.63	1,836.93	5,676.12					
100.00	100.00	65.82	65.82	0.13	0.10	161.12	-5,370.76	1,836.89	5,676.23	5,675.99	0.24	N/A		
200.00	200.00	172.71	172.71	0.49	0.42	161.12	-5,371.22	1,836.74	5,676.60	5,675.69	0.91	6,247.476		
300.00	300.00	320.21	320.21	0.85	0.93	161.12	-5,370.96	1,836.61	5,676.41	5,674.64	1.78	3,193.112		
400.00	400.00	420.04	420.03	1.21	1.27	161.12	-5,370.34	1,836.64	5,675.83	5,673.35	2.48	2,287.661		
500.00	500.00	570.24	570.22	1.57	1.80	161.11	-5,368.78	1,837.19	5,675.08	5,671.71	3.37	1,684.899		
600.00	600.00	668.44	668.40	1.93	2.15	161.10	-5,366.77	1,837.95	5,673.39	5,669.32	4.07	1,392.281		
700.00	700.00	753.92	753.87	2.29	2.45	161.08	-5,365.34	1,838.66	5,672.07	5,667.33	4.74	1,197.262		
800.00	800.00	845.11	845.04	2.64	2.78	161.07	-5,363.95	1,839.45	5,670.91	5,665.49	5.42	1,046.093		
900.00	900.00	923.15	923.07	3.00	3.06	161.06	-5,362.85	1,840.31	5,669.96	5,663.91	6.06	936.009		
996.31	996.31	980.40	980.31	3.35	3.26	161.05	-5,362.37	1,841.12	5,669.63	5,663.02	6.61	858.225		
1,000.00	1,000.00	982.59	982.50	3.36	3.27	161.05	-5,362.36	1,841.15	5,669.63	5,663.00	6.63	855.506		
1,100.00	1,100.00	1,058.96	1,058.86	3.72	3.54	161.04	-5,362.14	1,842.47	5,669.91	5,662.65	7.26	781.406		
1,200.00	1,200.00	1,160.47	1,160.35	4.08	3.90	161.02	-5,362.01	1,844.45	5,670.42	5,662.45	7.97	711.110		
1,300.00	1,299.98	1,282.99	1,282.87	4.43	4.33	113.89	-5,361.81	1,845.87	5,671.35	5,662.59	8.77	647.024		
1,400.00	1,399.84	1,375.58	1,375.45	4.79	4.66	113.89	-5,361.74	1,846.20	5,673.52	5,664.08	9.44	600.772		
1,500.00	1,499.45	1,483.04	1,482.91	5.15	5.02	113.91	-5,361.88	1,846.21	5,677.19	5,667.02	10.17	558.281		
1,600.00	1,598.70	1,608.43	1,608.30	5.51	5.45	113.96	-5,361.65	1,846.06	5,681.96	5,670.99	10.97	518.164		
1,700.00	1,697.47	1,701.82	1,701.69	5.89	5.78	113.99	-5,361.33	1,845.89	5,687.99	5,676.33	11.67	487.503		
1,800.00	1,795.62	1,793.12	1,792.99	6.28	6.10	114.01	-5,361.21	1,845.39	5,695.58	5,683.21	12.37	460.373		
1,900.00	1,893.06	1,939.00	1,938.85	6.69	6.60	114.17	-5,360.60	1,843.46	5,704.07	5,690.78	13.28	429.431		
2,000.00	1,989.64	2,024.15	2,024.00	7.13	6.90	114.20	-5,360.20	1,842.09	5,714.00	5,699.99	14.01	407.899		
2,100.00	2,085.27	2,121.13	2,120.95	7.61	7.23	114.27	-5,359.90	1,840.21	5,725.54	5,710.74	14.80	386.812		
2,200.00	2,179.82	2,218.64	2,218.44	8.12	7.57	114.34	-5,359.58	1,838.20	5,738.61	5,722.98	15.63	367.181		
2,300.00	2,273.17	2,314.00	2,313.78	8.67	7.91	114.40	-5,359.24	1,836.22	5,753.25	5,736.77	16.48	349.027		
2,400.00	2,365.21	2,420.53	2,420.28	9.27	8.28	114.50	-5,358.76	1,833.83	5,769.42	5,752.00	17.42	331.264		
2,500.00	2,455.84	2,524.87	2,524.57	9.92	8.65	114.61	-5,358.10	1,830.65	5,786.89	5,768.50	18.38	314.801		
2,580.62	2,527.80	2,575.08	2,574.76	10.49	8.83	114.54	-5,357.84	1,829.26	5,802.36	5,783.29	19.07	304.233		
2,600.00	2,544.97	2,587.09	2,586.77	10.63	8.87	114.59	-5,357.79	1,828.97	5,806.26	5,787.02	19.24	301.763		
2,700.00	2,633.58	2,642.92	2,642.59	11.37	9.06	114.84	-5,357.69	1,827.80	5,826.85	5,806.75	20.10	289.875		
2,800.00	2,722.19	2,700.00	2,699.66	12.13	9.26	115.09	-5,357.91	1,826.74	5,848.27	5,827.29	20.98	278.751		
2,900.00	2,810.80	2,893.71	2,893.34	12.91	9.95	115.93	-5,357.65	1,823.87	5,869.94	5,847.57	22.37	262.459		
3,000.00	2,899.41	3,037.15	3,036.74	13.71	10.46	116.53	-5,354.58	1,822.57	5,889.93	5,866.35	23.58	249.767		
3,100.00	2,988.02	3,115.08	3,114.65	14.52	10.73	116.85	-5,352.76	1,821.68	5,910.09	5,885.52	24.57	240.537		
3,200.00	3,076.63	3,178.44	3,177.98	15.34	10.96	117.11	-5,351.57	1,820.70	5,930.82	5,905.31	25.51	232.475		
3,300.00	3,165.24	3,238.99	3,238.52	16.16	11.17	117.37	-5,350.77	1,819.47	5,952.24	5,925.80	26.45	225.078		
3,400.00	3,253.85	3,300.00	3,299.50	17.00	11.39	117.63	-5,350.41	1,817.64	5,974.39	5,947.00	27.38	218.190		
3,500.00	3,342.46	3,420.70	3,420.12	17.84	11.82	118.16	-5,349.71	1,813.17	5,996.70	5,968.16	28.54	210.129		
3,600.00	3,431.07	3,491.81	3,491.17	18.69	12.07	118.46	-5,349.26	1,810.46	6,019.27	5,989.75	29.51	203.948		
3,700.00	3,519.68	3,589.29	3,588.59	19.55	12.42	118.88	-5,348.66	1,807.00	6,042.21	6,011.62	30.59	197.544		
3,800.00	3,608.29	3,677.83	3,677.08	20.40	12.74	119.25	-5,347.88	1,804.47	6,065.34	6,033.71	31.63	191.778		
3,900.00	3,696.90	3,762.83	3,762.06	21.26	13.04	119.60	-5,347.05	1,802.64	6,088.77	6,056.12	32.65	186.466		
4,000.00	3,785.51	3,835.98	3,835.20	22.13	13.30	119.89	-5,346.35	1,801.35	6,112.58	6,078.95	33.63	181.748		
4,100.00	3,874.12	3,901.92	3,901.13	23.00	13.53	120.14	-5,345.77	1,801.33	6,136.96	6,102.38	34.58	177.467		
4,200.00	3,962.73	4,016.54	4,015.75	23.87	13.93	120.58	-5,344.59	1,802.05	6,161.56	6,125.86	35.71	172.558		
4,300.00	4,051.34	4,101.42	4,100.62	24.74	14.23	120.90	-5,343.70	1,801.96	6,186.27	6,149.55	36.73	168.448		
4,400.00	4,139.95	4,225.56	4,224.75	25.62	14.67	121.38	-5,342.23	1,801.12	6,211.06	6,173.17	37.89	163.918		
4,500.00	4,228.56	4,423.93	4,423.03	26.49	15.38	122.14	-5,337.52	1,797.35	6,234.71	6,195.38	39.33	158.520		
4,600.00	4,317.17	4,495.38	4,494.43	27.37	15.64	122.41	-5,335.30	1,796.62	6,258.22	6,217.92	40.29	155.315		
4,700.00	4,405.78	4,606.19	4,605.19	28.25	16.03	122.82	-5,331.74	1,796.31	6,281.97	6,240.57	41.40	151.739		
4,800.00	4,494.39	4,801.78	4,800.59	29.13	16.73	123.52	-5,323.15	1,795.71	6,304.75	6,261.94	42.81	147.257		
4,900.00	4,583.00	4,868.28	4,867.00	30.02	16.96	123.77	-5,319.94	1,794.97	6,327.43	6,283.67	43.75	144.616		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,932.76	4,931.41	30.90	17.19	124.00	-5,317.09	1,794.12	6,350.65	6,305.97	44.68	142.136		
5,100.00	4,760.22	5,000.00	4,998.59	31.79	17.43	124.25	-5,314.42	1,793.10	6,374.49	6,328.88	45.61	139.752		
5,200.00	4,848.83	5,032.48	5,031.05	32.67	17.55	124.36	-5,313.35	1,792.54	6,399.09	6,352.68	46.41	137.881		
5,300.00	4,937.44	5,067.85	5,066.40	33.56	17.68	124.49	-5,312.46	1,791.86	6,424.66	6,377.45	47.21	136.086		
5,400.00	5,026.05	5,106.05	5,104.59	34.45	17.81	124.64	-5,311.85	1,791.05	6,451.19	6,403.18	48.01	134.362		
5,500.00	5,114.66	5,177.71	5,176.23	35.34	18.07	124.90	-5,311.02	1,789.60	6,478.39	6,429.45	48.94	132.369		
5,600.00	5,203.27	5,239.36	5,237.87	36.23	18.29	125.12	-5,310.46	1,788.71	6,506.09	6,456.27	49.82	130.582		
5,700.00	5,291.88	5,300.00	5,298.51	37.12	18.50	125.33	-5,310.15	1,788.67	6,534.42	6,483.72	50.70	128.891		
5,800.00	5,380.50	5,400.84	5,399.34	38.01	18.85	125.67	-5,309.68	1,789.58	6,563.07	6,511.34	51.72	126.891		
5,900.00	5,469.11	5,518.46	5,516.96	38.90	19.26	126.07	-5,308.80	1,789.91	6,591.62	6,538.80	52.82	124.800		
6,000.00	5,557.72	5,634.07	5,632.55	39.79	19.67	126.47	-5,307.39	1,788.72	6,619.85	6,565.94	53.90	122.808		
6,100.00	5,646.33	5,712.77	5,711.22	40.68	19.95	126.75	-5,306.49	1,786.92	6,648.32	6,593.48	54.84	121.238		
6,200.00	5,734.94	5,817.74	5,816.16	41.58	20.33	127.12	-5,305.15	1,784.39	6,676.86	6,620.99	55.87	119.506		
6,300.00	5,823.55	5,885.48	5,883.87	42.47	20.57	127.35	-5,304.34	1,782.85	6,705.70	6,648.95	56.75	118.158		
6,400.00	5,912.16	5,976.19	5,974.56	43.36	20.90	127.66	-5,303.40	1,781.10	6,734.90	6,677.18	57.72	116.678		
6,500.00	6,000.77	6,134.90	6,133.25	44.26	21.46	128.19	-5,300.88	1,780.19	6,763.90	6,704.94	58.97	114.708		
6,600.00	6,089.38	6,239.61	6,237.93	45.15	21.83	128.52	-5,298.25	1,780.28	6,792.20	6,732.21	59.99	113.223		
6,700.00	6,177.99	6,300.00	6,298.30	46.05	22.05	128.71	-5,296.94	1,780.12	6,820.99	6,760.16	60.83	112.131		
6,800.00	6,266.60	6,436.58	6,434.83	46.94	22.54	129.15	-5,293.49	1,779.57	6,849.56	6,787.58	61.97	110.522		
6,900.00	6,355.21	6,500.00	6,498.23	47.84	22.76	129.34	-5,291.91	1,779.99	6,878.43	6,815.61	62.82	109.490		
7,000.00	6,443.82	6,548.92	6,547.14	48.74	22.93	129.49	-5,290.93	1,780.66	6,907.90	6,844.29	63.60	108.608		
7,100.00	6,532.43	6,600.00	6,598.21	49.63	23.11	129.64	-5,290.19	1,781.51	6,938.03	6,873.65	64.39	107.753		
7,200.00	6,621.04	6,738.01	6,736.16	50.53	23.59	130.04	-5,287.70	1,784.51	6,967.87	6,902.34	65.53	106.333		
7,300.00	6,709.65	6,800.00	6,798.14	51.42	23.80	130.23	-5,286.73	1,785.14	6,998.18	6,931.82	66.35	105.469		
7,400.00	6,798.26	6,855.84	6,853.98	52.32	24.00	130.39	-5,286.09	1,785.38	7,029.02	6,961.87	67.15	104.683		
7,500.00	6,886.87	6,954.38	6,952.51	53.22	24.35	130.68	-5,285.16	1,786.18	7,060.23	6,992.11	68.11	103.654		
7,600.00	6,975.48	7,056.26	7,054.37	54.12	24.70	130.98	-5,283.81	1,787.53	7,091.23	7,022.13	69.09	102.635		
7,656.30	7,025.36	7,101.73	7,099.83	54.62	24.86	131.11	-5,283.24	1,788.33	7,108.77	7,039.18	69.59	102.149		
7,700.00	7,064.54	7,145.43	7,143.52	55.00	25.01	131.25	-5,282.69	1,789.08	7,120.83	7,050.81	70.01	101.705		
7,750.00	7,110.29	7,196.27	7,194.35	55.40	25.19	131.42	-5,282.01	1,789.76	7,130.66	7,060.16	70.50	101.143		
7,800.00	7,156.67	7,229.13	7,227.20	55.75	25.31	131.59	-5,281.59	1,790.11	7,136.25	7,065.34	70.91	100.644		
7,850.00	7,203.34	7,260.67	7,258.74	56.05	25.42	131.74	-5,281.25	1,790.43	7,137.63	7,066.34	71.30	100.114		
7,900.00	7,249.95	7,300.00	7,298.07	56.30	25.55	131.88	-5,280.92	1,790.79	7,134.80	7,063.10	71.70	99.505		
7,950.00	7,296.14	7,336.75	7,334.81	56.50	25.68	132.01	-5,280.66	1,791.10	7,127.74	7,055.66	72.08	98.884		
8,000.00	7,341.56	7,385.04	7,383.10	56.64	25.85	132.14	-5,280.29	1,791.46	7,116.42	7,043.93	72.49	98.170		
8,050.00	7,385.86	7,427.05	7,425.11	56.74	26.00	132.26	-5,279.96	1,791.75	7,100.95	7,028.09	72.85	97.469		
8,100.00	7,428.71	7,465.44	7,463.50	56.79	26.13	132.37	-5,279.69	1,792.05	7,081.45	7,008.27	73.18	96.765		
8,150.00	7,469.77	7,502.42	7,500.47	56.80	26.26	132.47	-5,279.45	1,792.38	7,058.09	6,984.61	73.49	96.045		
8,200.00	7,508.75	7,539.88	7,537.93	56.77	26.39	132.56	-5,279.22	1,792.74	7,031.03	6,957.25	73.78	95.303		
8,250.00	7,545.33	7,575.05	7,573.10	56.70	26.51	132.64	-5,279.02	1,793.11	7,000.44	6,926.40	74.04	94.551		
8,300.00	7,579.25	7,607.65	7,605.69	56.59	26.63	132.71	-5,278.84	1,793.46	6,966.57	6,892.30	74.28	93.794		
8,350.00	7,610.24	7,623.15	7,621.20	56.45	26.68	132.77	-5,278.78	1,793.63	6,929.71	6,855.29	74.42	93.113		
8,400.00	7,638.06	7,639.76	7,637.81	56.28	26.74	132.81	-5,278.74	1,793.81	6,890.12	6,815.56	74.56	92.407		
8,450.00	7,662.52	7,654.42	7,652.46	56.09	26.79	132.84	-5,278.72	1,793.96	6,848.09	6,773.41	74.68	91.696		
8,500.00	7,683.41	7,667.00	7,665.05	55.88	26.83	132.86	-5,278.73	1,794.09	6,803.92	6,729.14	74.78	90.983		
8,550.00	7,700.59	7,677.41	7,675.45	55.64	26.87	132.87	-5,278.74	1,794.20	6,757.92	6,683.06	74.87	90.268		
8,600.00	7,713.91	7,685.54	7,683.58	55.39	26.89	132.88	-5,278.76	1,794.28	6,710.43	6,635.50	74.93	89.555		
8,650.00	7,723.29	7,700.00	7,698.04	55.14	26.94	132.89	-5,278.81	1,794.42	6,661.81	6,586.79	75.02	88.801		
8,700.00	7,728.64	7,700.00	7,698.04	54.87	26.94	132.89	-5,278.81	1,794.42	6,612.39	6,537.35	75.04	88.117		
8,740.83	7,730.00	7,700.00	7,698.04	54.65	26.94	132.89	-5,278.81	1,794.42	6,571.71	6,496.65	75.06	87.556		
8,800.00	7,730.00	7,700.00	7,698.04	54.33	26.94	132.89	-5,278.81	1,794.42	6,512.66	6,437.58	75.08	86.742		
8,900.00	7,730.00	7,700.00	7,698.04	53.82	26.94	132.89	-5,278.81	1,794.42	6,412.86	6,337.74	75.12	85.368		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,700.00	7,698.04	53.33	26.94	87.79	-5,278.81	1,794.42	6,313.07	6,237.91	75.16	83.992		
9,100.00	7,730.00	7,700.00	7,698.04	52.87	26.94	87.79	-5,278.81	1,794.42	6,213.29	6,138.08	75.21	82.616		
9,200.00	7,730.00	7,700.00	7,698.04	52.44	26.94	87.79	-5,278.81	1,794.42	6,113.52	6,038.26	75.25	81.239		
9,300.00	7,730.00	7,700.00	7,698.04	52.03	26.94	87.79	-5,278.81	1,794.42	6,013.75	5,938.45	75.30	79.861		
9,400.00	7,730.00	7,700.00	7,698.04	51.65	26.94	87.79	-5,278.81	1,794.42	5,913.99	5,838.64	75.35	78.482		
9,500.00	7,730.00	7,700.00	7,698.04	51.29	26.94	87.79	-5,278.81	1,794.42	5,814.24	5,738.83	75.41	77.102		
9,600.00	7,730.00	7,700.00	7,698.04	50.95	26.94	87.79	-5,278.81	1,794.42	5,714.50	5,639.03	75.47	75.722		
9,700.00	7,730.00	7,700.00	7,698.04	50.64	26.94	87.79	-5,278.81	1,794.42	5,614.77	5,539.24	75.53	74.342		
9,800.00	7,730.00	7,700.00	7,698.04	50.35	26.94	87.79	-5,278.81	1,794.42	5,515.04	5,439.45	75.59	72.960		
9,900.00	7,730.00	7,700.00	7,698.04	50.09	26.94	87.79	-5,278.81	1,794.42	5,415.33	5,339.67	75.66	71.578		
10,000.00	7,730.00	7,700.00	7,698.04	49.86	26.94	87.79	-5,278.81	1,794.42	5,315.63	5,239.90	75.73	70.196		
10,100.00	7,730.00	7,700.00	7,698.04	49.65	26.94	87.79	-5,278.81	1,794.42	5,215.94	5,140.14	75.80	68.813		
10,200.00	7,730.00	7,700.00	7,698.04	49.48	26.94	87.79	-5,278.81	1,794.42	5,116.26	5,040.38	75.88	67.429		
10,300.00	7,730.00	7,700.00	7,698.04	49.35	26.94	87.79	-5,278.81	1,794.42	5,016.59	4,940.64	75.96	66.045		
10,400.00	7,730.00	7,700.00	7,698.04	49.27	26.94	87.79	-5,278.81	1,794.42	4,916.94	4,840.90	76.04	64.661		
10,500.00	7,730.00	7,700.12	7,698.16	49.26	26.94	87.81	-5,278.81	1,794.42	4,817.30	4,741.17	76.13	63.276		
10,600.00	7,730.00	7,700.83	7,698.87	49.32	26.95	87.90	-5,278.82	1,794.43	4,717.68	4,641.45	76.23	61.887		
10,700.00	7,730.00	7,701.51	7,699.55	49.51	26.95	88.00	-5,278.82	1,794.44	4,618.08	4,541.74	76.33	60.499		
10,800.00	7,730.00	7,702.18	7,700.22	49.83	26.95	88.09	-5,278.82	1,794.44	4,518.49	4,442.05	76.44	59.111		
10,900.00	7,730.00	7,702.83	7,700.87	50.31	26.95	88.18	-5,278.82	1,794.45	4,418.92	4,342.36	76.56	57.722		
11,000.00	7,730.00	7,703.46	7,701.50	50.96	26.96	88.27	-5,278.83	1,794.45	4,319.37	4,242.69	76.68	56.333		
11,100.00	7,730.00	7,704.07	7,702.12	51.75	26.96	88.35	-5,278.83	1,794.46	4,219.84	4,143.04	76.80	54.945		
11,200.00	7,730.00	7,704.67	7,702.72	52.66	26.96	88.44	-5,278.83	1,794.47	4,120.33	4,043.40	76.93	53.556		
11,300.00	7,730.00	7,705.26	7,703.30	53.67	26.96	88.52	-5,278.83	1,794.47	4,020.85	3,943.77	77.08	52.168		
11,400.00	7,730.00	7,705.83	7,703.87	54.75	26.96	88.60	-5,278.84	1,794.48	3,921.39	3,844.17	77.22	50.779		
11,500.00	7,730.00	7,706.38	7,704.42	55.89	26.97	88.67	-5,278.84	1,794.48	3,821.96	3,744.58	77.38	49.391		
11,600.00	7,730.00	7,706.92	7,704.96	57.07	26.97	88.75	-5,278.84	1,794.49	3,722.57	3,645.02	77.55	48.003		
11,700.00	7,730.00	7,707.45	7,705.49	58.30	26.97	88.82	-5,278.84	1,794.50	3,623.20	3,545.48	77.72	46.616		
11,800.00	7,730.00	7,707.97	7,706.01	59.55	26.97	88.89	-5,278.84	1,794.50	3,523.88	3,445.96	77.91	45.229		
11,900.00	7,730.00	7,708.47	7,706.51	60.84	26.97	88.96	-5,278.85	1,794.51	3,424.59	3,346.48	78.11	43.842		
12,000.00	7,730.00	7,708.96	7,707.00	62.15	26.97	89.03	-5,278.85	1,794.51	3,325.34	3,247.02	78.33	42.456		
12,100.00	7,730.00	7,709.44	7,707.48	63.49	26.98	89.10	-5,278.85	1,794.52	3,226.14	3,147.59	78.55	41.070		
12,200.00	7,730.00	7,709.91	7,707.95	64.85	26.98	89.16	-5,278.85	1,794.52	3,126.99	3,048.20	78.80	39.685		
12,300.00	7,730.00	7,710.37	7,708.41	66.22	26.98	89.23	-5,278.85	1,794.53	3,027.90	2,948.84	79.06	38.301		
12,400.00	7,730.00	7,710.82	7,708.86	67.62	26.98	89.29	-5,278.85	1,794.53	2,928.87	2,849.53	79.34	36.917		
12,500.00	7,730.00	7,711.26	7,709.30	69.03	26.98	89.35	-5,278.85	1,794.53	2,829.91	2,750.27	79.64	35.535		
12,600.00	7,730.00	7,711.69	7,709.73	70.45	26.98	89.41	-5,278.86	1,794.54	2,731.02	2,651.06	79.96	34.154		
12,700.00	7,730.00	7,712.11	7,710.15	71.90	26.99	89.47	-5,278.86	1,794.54	2,632.22	2,551.90	80.31	32.774		
12,800.00	7,730.00	7,712.52	7,710.56	73.35	26.99	89.52	-5,278.86	1,794.55	2,533.51	2,452.81	80.70	31.395		
12,900.00	7,730.00	7,712.92	7,710.96	74.81	26.99	89.58	-5,278.86	1,794.55	2,434.90	2,353.79	81.11	30.019		
13,000.00	7,730.00	7,713.31	7,711.35	76.29	26.99	89.63	-5,278.86	1,794.56	2,336.42	2,254.85	81.57	28.644		
13,100.00	7,730.00	7,713.70	7,711.74	77.78	26.99	89.69	-5,278.86	1,794.56	2,238.06	2,156.00	82.07	27.272		
13,200.00	7,730.00	7,714.07	7,712.12	79.28	26.99	89.74	-5,278.86	1,794.56	2,139.86	2,057.25	82.61	25.902		
13,300.00	7,730.00	7,714.44	7,712.49	80.79	26.99	89.79	-5,278.86	1,794.57	2,041.84	1,958.62	83.22	24.536		
13,400.00	7,730.00	7,714.81	7,712.85	82.31	26.99	89.84	-5,278.87	1,794.57	1,944.02	1,860.13	83.89	23.173		
13,500.00	7,730.00	7,715.16	7,713.20	83.84	27.00	89.89	-5,278.87	1,794.58	1,846.43	1,761.79	84.64	21.815		
13,600.00	7,730.00	7,715.51	7,713.55	85.37	27.00	89.94	-5,278.87	1,794.58	1,749.11	1,663.63	85.48	20.462		
13,700.00	7,730.00	7,715.85	7,713.89	86.92	27.00	89.99	-5,278.87	1,794.58	1,652.11	1,565.68	86.43	19.115		
13,800.00	7,730.00	7,716.19	7,714.23	88.47	27.00	90.03	-5,278.87	1,794.59	1,555.50	1,467.99	87.50	17.776		
13,900.00	7,730.00	7,716.51	7,714.56	90.03	27.00	90.08	-5,278.87	1,794.59	1,459.34	1,370.60	88.73	16.447		
14,000.00	7,730.00	7,716.84	7,714.88	91.59	27.00	90.12	-5,278.87	1,794.59	1,363.73	1,273.59	90.14	15.129		
14,100.00	7,730.00	7,717.15	7,715.19	93.16	27.00	90.17	-5,278.87	1,794.60	1,268.80	1,177.02	91.77	13.825		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,717.46	7,715.50	94.74	27.00	90.21	-5,278.87	1,794.60	1,174.70	1,081.03	93.68	12.540		
14,300.00	7,730.00	7,717.77	7,715.81	96.33	27.00	90.25	-5,278.87	1,794.60	1,081.68	985.76	95.92	11.277		
14,400.00	7,730.00	7,718.07	7,716.11	97.92	27.01	90.29	-5,278.87	1,794.61	990.01	891.44	98.57	10.044		
14,500.00	7,730.00	7,718.36	7,716.40	99.51	27.01	90.33	-5,278.88	1,794.61	900.11	798.38	101.73	8.848		
14,600.00	7,730.00	7,718.65	7,716.69	101.11	27.01	90.37	-5,278.88	1,794.61	812.58	707.06	105.52	7.701		
14,700.00	7,730.00	7,718.93	7,716.97	102.72	27.01	90.41	-5,278.88	1,794.62	728.27	618.22	110.05	6.617		
14,800.00	7,730.00	7,719.21	7,717.25	104.33	27.01	90.45	-5,278.88	1,794.62	648.44	533.01	115.43	5.618		
14,900.00	7,730.00	7,719.48	7,717.52	105.94	27.01	90.49	-5,278.88	1,794.62	574.94	453.33	121.61	4.728		
15,000.00	7,730.00	7,719.75	7,717.79	107.56	27.01	90.53	-5,278.88	1,794.63	510.54	382.29	128.25	3.981		
15,100.00	7,730.00	7,720.01	7,718.06	109.18	27.01	90.56	-5,278.88	1,794.63	459.06	324.74	134.32	3.418		
15,200.00	7,730.00	7,720.27	7,718.32	110.81	27.01	90.60	-5,278.88	1,794.63	425.24	287.31	137.92	3.083		
15,299.56	7,730.00	7,720.53	7,718.57	112.44	27.01	90.63	-5,278.88	1,794.63	413.42	276.49	136.93	3.019	CC, ES, SF	
15,300.00	7,730.00	7,720.53	7,718.57	112.44	27.01	90.63	-5,278.88	1,794.63	413.42	276.50	136.92	3.020		
15,400.00	7,730.00	7,720.78	7,718.82	114.08	27.01	90.67	-5,278.88	1,794.64	425.44	294.71	130.73	3.254		
15,500.00	7,730.00	7,721.03	7,719.07	115.72	27.02	90.70	-5,278.88	1,794.64	459.45	338.25	121.20	3.791		
15,600.00	7,730.00	7,721.27	7,719.31	117.36	27.02	90.74	-5,278.88	1,794.64	511.06	400.08	110.98	4.605		
15,700.00	7,730.00	7,721.51	7,719.55	119.00	27.02	90.77	-5,278.88	1,794.65	575.56	473.75	101.81	5.654		
15,800.00	7,730.00	7,721.74	7,719.78	120.65	27.02	90.80	-5,278.88	1,794.65	649.12	554.81	94.31	6.883		
15,900.00	7,730.00	7,721.97	7,720.01	122.30	27.02	90.83	-5,278.88	1,794.65	729.00	640.54	88.47	8.240		
16,000.00	7,730.00	7,722.20	7,720.24	123.96	27.02	90.87	-5,278.89	1,794.65	813.35	729.33	84.02	9.681		
16,100.00	7,730.00	7,722.42	7,720.47	125.61	27.02	90.90	-5,278.89	1,794.66	900.90	820.24	80.66	11.169		
16,200.00	7,730.00	7,722.64	7,720.69	127.27	27.02	90.93	-5,278.89	1,794.66	990.81	912.67	78.14	12.679		
16,300.00	7,730.00	7,722.86	7,720.90	128.94	27.02	90.96	-5,278.89	1,794.66	1,082.49	1,006.24	76.26	14.195		
16,400.00	7,730.00	7,723.07	7,721.12	130.60	27.02	90.99	-5,278.89	1,794.66	1,175.53	1,100.69	74.84	15.707		
16,500.00	7,730.00	7,723.28	7,721.33	132.27	27.02	91.02	-5,278.89	1,794.67	1,269.63	1,195.85	73.78	17.208		
16,600.00	7,730.00	7,723.49	7,721.53	133.94	27.02	91.04	-5,278.89	1,794.67	1,364.57	1,291.58	72.99	18.696		
16,700.00	7,730.00	7,723.69	7,721.74	135.61	27.02	91.07	-5,278.89	1,794.67	1,460.19	1,387.79	72.39	20.170		
16,800.00	7,730.00	7,723.90	7,721.94	137.28	27.03	91.10	-5,278.89	1,794.67	1,556.35	1,484.40	71.95	21.631		
16,900.00	7,730.00	7,724.09	7,722.13	138.96	27.03	91.13	-5,278.89	1,794.67	1,652.97	1,581.35	71.63	23.078		
17,000.00	7,730.00	7,724.29	7,722.33	140.64	27.03	91.15	-5,278.89	1,794.68	1,749.97	1,678.58	71.39	24.513		
17,100.00	7,730.00	7,724.48	7,722.52	142.32	27.03	91.18	-5,278.89	1,794.68	1,847.29	1,776.07	71.22	25.936		
17,200.00	7,730.00	7,724.67	7,722.71	144.00	27.03	91.21	-5,278.89	1,794.68	1,944.89	1,873.77	71.11	27.349		
17,300.00	7,730.00	7,724.86	7,722.90	145.69	27.03	91.23	-5,278.89	1,794.68	2,042.71	1,971.67	71.04	28.753		
17,400.00	7,730.00	7,725.04	7,723.08	147.37	27.03	91.26	-5,278.89	1,794.68	2,140.74	2,069.73	71.01	30.149		
17,500.00	7,730.00	7,725.22	7,723.26	149.06	27.03	91.28	-5,278.89	1,794.69	2,238.94	2,167.94	71.00	31.536		
17,600.00	7,730.00	7,725.40	7,723.44	150.75	27.03	91.31	-5,278.89	1,794.69	2,337.29	2,266.28	71.01	32.917		
17,700.00	7,730.00	7,725.57	7,723.62	152.44	27.03	91.33	-5,278.89	1,794.69	2,435.78	2,364.74	71.03	34.291		
17,800.00	7,730.00	7,725.75	7,723.79	154.13	27.03	91.36	-5,278.89	1,794.69	2,534.38	2,463.31	71.07	35.658		
17,900.00	7,730.00	7,725.92	7,723.96	155.83	27.03	91.38	-5,278.89	1,794.69	2,633.09	2,561.97	71.12	37.021		
18,000.00	7,730.00	7,726.09	7,724.13	157.52	27.03	91.40	-5,278.89	1,794.70	2,731.90	2,660.71	71.18	38.378		
18,100.00	7,730.00	7,726.25	7,724.30	159.22	27.03	91.43	-5,278.89	1,794.70	2,830.79	2,759.54	71.25	39.730		
18,200.00	7,730.00	7,726.42	7,724.46	160.92	27.03	91.45	-5,278.89	1,794.70	2,929.75	2,858.43	71.32	41.078		
18,300.00	7,730.00	7,726.58	7,724.62	162.62	27.03	91.47	-5,278.89	1,794.70	3,028.78	2,957.39	71.40	42.421		
18,400.00	7,730.00	7,726.74	7,724.78	164.32	27.04	91.49	-5,278.90	1,794.70	3,127.88	3,056.40	71.48	43.760		
18,426.22	7,730.00	7,726.78	7,724.82	164.76	27.04	91.50	-5,278.90	1,794.70	3,153.87	3,082.37	71.50	44.111		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.36	-5,617.75	5,744.15	8,034.63					
100.00	100.00	71.00	71.00	0.13	0.55	134.36	-5,617.75	5,744.15	8,034.58	8,033.90	0.68	N/A		
200.00	200.00	171.00	171.00	0.49	2.01	134.36	-5,617.75	5,744.15	8,034.58	8,032.08	2.50	3,213.795		
300.00	300.00	271.00	271.00	0.85	3.75	134.36	-5,617.75	5,744.15	8,034.58	8,029.98	4.60	1,745.195		
400.00	400.00	371.00	371.00	1.21	5.50	134.36	-5,617.75	5,744.15	8,034.58	8,027.87	6.71	1,197.827		
500.00	500.00	471.00	471.00	1.57	7.24	134.36	-5,617.75	5,744.15	8,034.58	8,025.77	8.81	911.836		
600.00	600.00	571.00	571.00	1.93	8.99	134.36	-5,617.75	5,744.15	8,034.58	8,023.66	10.92	736.089		
700.00	700.00	671.00	671.00	2.29	10.73	134.36	-5,617.75	5,744.15	8,034.58	8,021.56	13.02	617.141		
800.00	800.00	771.00	771.00	2.64	12.48	134.36	-5,617.75	5,744.15	8,034.58	8,019.46	15.12	531.288		
900.00	900.00	871.00	871.00	3.00	14.22	134.36	-5,617.75	5,744.15	8,034.58	8,017.35	17.23	466.404		
1,000.00	1,000.00	971.00	971.00	3.36	15.97	134.36	-5,617.75	5,744.15	8,034.58	8,015.25	19.33	415.644		
1,100.00	1,100.00	1,071.00	1,071.00	3.72	17.72	134.36	-5,617.75	5,744.15	8,034.58	8,013.14	21.43	374.848		
1,200.00	1,200.00	1,171.00	1,171.00	4.08	19.46	134.36	-5,617.75	5,744.15	8,034.58	8,011.04	23.54	341.344		
1,300.00	1,299.98	1,270.98	1,270.98	4.43	21.21	87.26	-5,617.75	5,744.15	8,034.50	8,008.86	25.64	313.376		
1,400.00	1,399.84	1,370.84	1,370.84	4.79	22.95	87.30	-5,617.75	5,744.15	8,034.25	8,006.51	27.74	289.676		
1,500.00	1,499.45	1,470.45	1,470.45	5.15	24.69	87.37	-5,617.75	5,744.15	8,033.84	8,004.01	29.83	269.308		
1,600.00	1,598.70	1,569.70	1,569.70	5.51	26.42	87.47	-5,617.75	5,744.15	8,033.29	8,001.36	31.93	251.605		
1,700.00	1,697.47	1,668.47	1,668.47	5.89	28.14	87.59	-5,617.75	5,744.15	8,032.60	7,998.57	34.03	236.060		
1,800.00	1,795.62	1,766.62	1,766.62	6.28	29.86	87.74	-5,617.75	5,744.15	8,031.81	7,995.68	36.13	222.284		
1,900.00	1,893.06	1,864.06	1,864.06	6.69	31.56	87.91	-5,617.75	5,744.15	8,030.93	7,992.69	38.25	209.974		
2,000.00	1,989.64	1,960.64	1,960.64	7.13	33.24	88.11	-5,617.75	5,744.15	8,030.00	7,989.63	40.37	198.892		
2,100.00	2,085.27	2,056.27	2,056.27	7.61	34.91	88.33	-5,617.75	5,744.15	8,029.05	7,986.54	42.52	188.850		
2,200.00	2,179.82	2,150.82	2,150.82	8.12	36.56	88.57	-5,617.75	5,744.15	8,028.12	7,983.44	44.68	179.696		
2,300.00	2,273.17	2,244.17	2,244.17	8.67	38.19	88.82	-5,617.75	5,744.15	8,027.25	7,980.39	46.86	171.307		
2,400.00	2,365.21	2,336.21	2,336.21	9.27	39.80	89.09	-5,617.75	5,744.15	8,026.47	7,977.41	49.07	163.587		
2,500.00	2,455.84	2,426.84	2,426.84	9.92	41.38	89.38	-5,617.75	5,744.15	8,025.85	7,974.55	51.30	156.453		
2,580.62	2,527.80	2,501.20	2,498.80	10.49	42.68	89.62	-5,617.75	5,744.15	8,025.50	7,972.34	53.16	150.966		
2,600.00	2,544.97	2,515.97	2,515.97	10.63	42.93	89.68	-5,617.75	5,744.15	8,025.43	7,971.88	53.56	149.843		
2,700.00	2,633.58	2,604.58	2,604.58	11.37	44.48	89.97	-5,617.75	5,744.15	8,025.27	7,969.42	55.85	143.701		
2,710.84	2,643.18	2,614.18	2,614.18	11.45	44.65	90.00	-5,617.75	5,744.15	8,025.27	7,969.17	56.10	143.061		
2,800.00	2,722.19	2,706.81	2,693.19	12.13	46.27	90.26	-5,617.75	5,744.15	8,025.38	7,966.98	58.39	137.433		
2,900.00	2,810.80	2,781.80	2,781.80	12.91	47.57	90.55	-5,617.75	5,744.15	8,025.75	7,965.26	60.49	132.689		
3,000.00	2,899.41	2,870.41	2,870.41	13.71	49.12	90.85	-5,617.75	5,744.15	8,026.39	7,963.56	62.83	127.751		
3,100.00	2,988.02	2,959.02	2,959.02	14.52	50.67	91.14	-5,617.75	5,744.15	8,027.30	7,962.11	65.18	123.148		
3,200.00	3,076.63	3,047.63	3,047.63	15.34	52.21	91.43	-5,617.75	5,744.15	8,028.47	7,960.92	67.55	118.853		
3,300.00	3,165.24	3,136.24	3,136.24	16.16	53.76	91.73	-5,617.75	5,744.15	8,029.91	7,959.99	69.92	114.837		
3,400.00	3,253.85	3,224.85	3,224.85	17.00	55.31	92.02	-5,617.75	5,744.15	8,031.62	7,959.32	72.31	111.078		
3,500.00	3,342.46	3,313.46	3,313.46	17.84	56.85	92.31	-5,617.75	5,744.15	8,033.60	7,958.91	74.69	107.554		
3,600.00	3,431.07	3,402.07	3,402.07	18.69	58.40	92.61	-5,617.75	5,744.15	8,035.84	7,958.76	77.09	104.244		
3,700.00	3,519.68	3,509.32	3,490.68	19.55	60.27	92.90	-5,617.75	5,744.15	8,038.36	7,958.55	79.81	100.720		
3,800.00	3,608.29	3,579.29	3,579.29	20.40	61.49	93.19	-5,617.75	5,744.15	8,041.13	7,959.25	81.88	98.201		
3,900.00	3,696.90	3,667.90	3,667.90	21.26	63.04	93.48	-5,617.75	5,744.15	8,044.17	7,959.89	84.29	95.436		
4,000.00	3,785.51	3,756.51	3,756.51	22.13	64.59	93.77	-5,617.75	5,744.15	8,047.48	7,960.79	86.69	92.826		
4,100.00	3,874.12	3,845.12	3,845.12	23.00	66.13	94.07	-5,617.75	5,744.15	8,051.06	7,961.95	89.10	90.357		
4,200.00	3,962.73	3,933.73	3,933.73	23.87	67.68	94.36	-5,617.75	5,744.15	8,054.90	7,963.38	91.51	88.019		
4,300.00	4,051.34	4,022.34	4,022.34	24.74	69.23	94.65	-5,617.75	5,744.15	8,059.00	7,965.08	93.92	85.803		
4,400.00	4,139.95	4,110.95	4,110.95	25.62	70.77	94.94	-5,617.75	5,744.15	8,063.37	7,967.03	96.34	83.700		
4,500.00	4,228.56	4,200.44	4,199.56	26.49	72.33	95.23	-5,617.75	5,744.15	8,068.00	7,969.24	98.76	81.689		
4,600.00	4,317.17	4,288.17	4,288.17	27.37	73.87	95.52	-5,617.75	5,744.15	8,072.90	7,971.73	101.16	79.801		
4,700.00	4,405.78	4,376.78	4,376.78	28.25	75.41	95.81	-5,617.75	5,744.15	8,078.05	7,974.48	103.58	77.991		
4,800.00	4,494.39	4,465.39	4,465.39	29.13	76.96	96.10	-5,617.75	5,744.15	8,083.48	7,977.48	105.99	76.266		
4,900.00	4,583.00	4,554.00	4,554.00	30.02	78.50	96.39	-5,617.75	5,744.15	8,089.16	7,980.75	108.40	74.620		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,642.61	4,642.61	30.90	80.05	96.68	-5,617.75	5,744.15	8,095.10	7,984.28	110.82	73.049		
5,100.00	4,760.22	4,731.22	4,731.22	31.79	81.60	96.97	-5,617.75	5,744.15	8,101.31	7,988.08	113.23	71.547		
5,200.00	4,848.83	4,819.83	4,819.83	32.67	83.14	97.26	-5,617.75	5,744.15	8,107.77	7,992.13	115.64	70.110		
5,300.00	4,937.44	4,908.44	4,908.44	33.56	84.69	97.55	-5,617.75	5,744.15	8,114.50	7,996.44	118.05	68.735		
5,400.00	5,026.05	5,002.95	4,997.05	34.45	86.34	97.84	-5,617.75	5,744.15	8,121.48	8,000.91	120.57	67.360		
5,500.00	5,114.66	5,085.66	5,085.66	35.34	87.78	98.12	-5,617.75	5,744.15	8,128.72	8,005.85	122.88	66.154		
5,600.00	5,203.27	5,174.27	5,174.27	36.23	89.33	98.41	-5,617.75	5,744.15	8,136.22	8,010.94	125.28	64.942		
5,700.00	5,291.88	5,262.88	5,262.88	37.12	90.88	98.70	-5,617.75	5,744.15	8,143.98	8,016.29	127.69	63.779		
5,800.00	5,380.50	5,351.50	5,351.50	38.01	92.42	98.98	-5,617.75	5,744.15	8,151.99	8,021.90	130.10	62.661		
5,900.00	5,469.11	5,440.11	5,440.11	38.90	93.97	99.27	-5,617.75	5,744.15	8,160.26	8,027.76	132.50	61.586		
6,000.00	5,557.72	5,528.72	5,528.72	39.79	95.52	99.55	-5,617.75	5,744.15	8,168.78	8,033.88	134.90	60.552		
6,100.00	5,646.33	5,617.33	5,617.33	40.68	97.06	99.84	-5,617.75	5,744.15	8,177.56	8,040.25	137.31	59.557		
6,200.00	5,734.94	5,705.94	5,705.94	41.58	98.61	100.12	-5,617.75	5,744.15	8,186.59	8,046.88	139.71	58.599		
6,300.00	5,823.55	5,805.45	5,794.55	42.47	100.35	100.41	-5,617.75	5,744.15	8,195.87	8,053.58	142.29	57.598		
6,400.00	5,912.16	5,883.16	5,883.16	43.36	101.70	100.69	-5,617.75	5,744.15	8,205.41	8,060.91	144.50	56.785		
6,500.00	6,000.77	5,971.77	5,971.77	44.26	103.25	100.97	-5,617.75	5,744.15	8,215.19	8,068.29	146.89	55.926		
6,600.00	6,089.38	6,060.38	6,060.38	45.15	104.80	101.26	-5,617.75	5,744.15	8,225.22	8,075.94	149.29	55.097		
6,700.00	6,177.99	6,148.99	6,148.99	46.05	106.34	101.54	-5,617.75	5,744.15	8,235.50	8,083.83	151.68	54.296		
6,800.00	6,266.60	6,237.60	6,237.60	46.94	107.89	101.82	-5,617.75	5,744.15	8,246.03	8,091.97	154.07	53.523		
6,900.00	6,355.21	6,326.21	6,326.21	47.84	109.44	102.10	-5,617.75	5,744.15	8,256.81	8,100.36	156.45	52.776		
7,000.00	6,443.82	6,414.82	6,414.82	48.74	110.98	102.38	-5,617.75	5,744.15	8,267.83	8,109.00	158.84	52.053		
7,100.00	6,532.43	6,503.43	6,503.43	49.63	112.53	102.66	-5,617.75	5,744.15	8,279.10	8,117.88	161.22	51.354		
7,200.00	6,621.04	6,607.96	6,592.04	50.53	114.35	102.94	-5,617.75	5,744.15	8,290.61	8,126.73	163.87	50.591		
7,300.00	6,709.65	6,680.65	6,680.65	51.42	115.62	103.22	-5,617.75	5,744.15	8,302.36	8,136.39	165.97	50.022		
7,400.00	6,798.26	6,769.26	6,769.26	52.32	117.17	103.49	-5,617.75	5,744.15	8,314.36	8,146.01	168.35	49.388		
7,500.00	6,886.87	6,857.87	6,857.87	53.22	118.72	103.77	-5,617.75	5,744.15	8,326.59	8,155.87	170.72	48.774		
7,600.00	6,975.48	6,946.48	6,946.48	54.12	120.26	104.05	-5,617.75	5,744.15	8,339.07	8,165.98	173.09	48.178		
7,656.30	7,025.36	7,003.64	6,996.36	54.62	121.26	104.20	-5,617.75	5,744.15	8,346.20	8,171.65	174.55	47.816		
7,700.00	7,064.54	7,035.54	7,035.54	55.00	121.82	97.35	-5,617.75	5,744.15	8,350.28	8,174.83	175.45	47.592		
7,750.00	7,110.29	7,081.29	7,081.29	55.40	122.61	87.47	-5,617.75	5,744.15	8,351.31	8,174.68	176.63	47.281		
7,800.00	7,156.67	7,127.67	7,127.67	55.75	123.42	75.58	-5,617.75	5,744.15	8,348.44	8,170.65	177.79	46.957		
7,850.00	7,203.34	7,174.34	7,174.34	56.05	124.24	62.44	-5,617.75	5,744.15	8,341.66	8,162.74	178.92	46.623		
7,900.00	7,249.95	7,220.95	7,220.95	56.30	125.05	49.37	-5,617.75	5,744.15	8,331.03	8,151.02	180.01	46.281		
7,950.00	7,296.14	7,267.14	7,267.14	56.50	125.86	37.54	-5,617.75	5,744.15	8,316.61	8,135.56	181.05	45.935		
8,000.00	7,341.56	7,312.56	7,312.56	56.64	126.65	27.44	-5,617.75	5,744.15	8,298.51	8,116.47	182.04	45.585		
8,050.00	7,385.86	7,356.86	7,356.86	56.74	127.42	19.01	-5,617.75	5,744.15	8,276.85	8,093.87	182.97	45.235		
8,100.00	7,428.71	7,400.29	7,399.71	56.79	128.18	11.88	-5,617.75	5,744.15	8,251.79	8,067.93	183.85	44.883		
8,150.00	7,469.77	7,440.77	7,440.77	56.80	128.89	5.67	-5,617.75	5,744.15	8,223.51	8,038.87	184.64	44.538		
8,200.00	7,508.75	7,479.75	7,479.75	56.77	129.57	-0.01	-5,617.75	5,744.15	8,192.24	8,006.87	185.37	44.194		
8,250.00	7,545.33	7,516.33	7,516.33	56.70	130.21	-5.47	-5,617.75	5,744.15	8,158.20	7,972.18	186.02	43.857		
8,300.00	7,579.25	7,550.25	7,550.25	56.59	130.80	-11.00	-5,617.75	5,744.15	8,121.66	7,935.07	186.59	43.527		
8,350.00	7,610.24	7,581.24	7,581.24	56.45	131.34	-16.90	-5,617.75	5,744.15	8,082.89	7,895.81	187.08	43.206		
8,400.00	7,638.06	7,609.06	7,609.06	56.28	131.83	-23.45	-5,617.75	5,744.15	8,042.20	7,854.72	187.48	42.896		
8,450.00	7,662.52	7,633.52	7,633.52	56.09	132.25	-30.93	-5,617.75	5,744.15	7,999.91	7,812.11	187.80	42.598		
8,500.00	7,683.41	7,654.41	7,654.41	55.88	132.62	-39.55	-5,617.75	5,744.15	7,956.34	7,768.32	188.03	42.314		
8,550.00	7,700.59	7,671.59	7,671.59	55.64	132.92	-49.39	-5,617.75	5,744.15	7,911.84	7,723.67	188.17	42.046		
8,600.00	7,713.91	7,684.91	7,684.91	55.39	133.15	-60.21	-5,617.75	5,744.15	7,866.76	7,678.54	188.23	41.794		
8,650.00	7,723.29	7,705.71	7,694.29	55.14	133.51	-71.38	-5,617.75	5,744.15	7,821.45	7,633.06	188.39	41.516		
8,700.00	7,728.64	7,700.36	7,699.64	54.87	133.42	-82.10	-5,617.75	5,744.15	7,776.28	7,588.19	188.09	41.343		
8,740.83	7,730.00	7,701.00	7,701.00	54.65	133.43	-90.00	-5,617.75	5,744.15	7,739.73	7,551.81	187.92	41.186		
8,800.00	7,730.00	7,701.00	7,701.00	54.33	133.43	-90.00	-5,617.75	5,744.15	7,687.15	7,499.50	187.66	40.964		
8,900.00	7,730.00	7,701.00	7,701.00	53.82	133.43	-90.00	-5,617.75	5,744.15	7,598.51	7,411.30	187.21	40.589		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,701.00	7,701.00	53.33	133.43	-90.00	-5,617.75	5,744.15	7,510.15	7,323.39	186.76	40.214		
9,100.00	7,730.00	7,701.00	7,701.00	52.87	133.43	-90.00	-5,617.75	5,744.15	7,422.08	7,235.78	186.30	39.839		
9,200.00	7,730.00	7,701.00	7,701.00	52.44	133.43	-90.00	-5,617.75	5,744.15	7,334.33	7,148.48	185.85	39.464		
9,300.00	7,730.00	7,701.00	7,701.00	52.03	133.43	-90.00	-5,617.75	5,744.15	7,246.89	7,061.49	185.40	39.088		
9,400.00	7,730.00	7,701.00	7,701.00	51.65	133.43	-90.00	-5,617.75	5,744.15	7,159.77	6,974.83	184.95	38.713		
9,500.00	7,730.00	7,701.00	7,701.00	51.29	133.43	-90.00	-5,617.75	5,744.15	7,073.00	6,888.50	184.50	38.336		
9,600.00	7,730.00	7,701.00	7,701.00	50.95	133.43	-90.00	-5,617.75	5,744.15	6,986.59	6,802.53	184.05	37.960		
9,700.00	7,730.00	7,701.00	7,701.00	50.64	133.43	-90.00	-5,617.75	5,744.15	6,900.53	6,716.92	183.61	37.582		
9,800.00	7,730.00	7,701.00	7,701.00	50.35	133.43	-90.00	-5,617.75	5,744.15	6,814.87	6,631.69	183.17	37.204		
9,900.00	7,730.00	7,701.00	7,701.00	50.09	133.43	-90.00	-5,617.75	5,744.15	6,729.59	6,546.85	182.75	36.825		
10,000.00	7,730.00	7,701.00	7,701.00	49.86	133.43	-90.00	-5,617.75	5,744.15	6,644.73	6,462.40	182.33	36.444		
10,100.00	7,730.00	7,701.00	7,701.00	49.65	133.43	-90.00	-5,617.75	5,744.15	6,560.29	6,378.37	181.92	36.062		
10,200.00	7,730.00	7,701.00	7,701.00	49.48	133.43	-90.00	-5,617.75	5,744.15	6,476.30	6,294.78	181.52	35.678		
10,300.00	7,730.00	7,701.00	7,701.00	49.35	133.43	-90.00	-5,617.75	5,744.15	6,392.76	6,211.63	181.14	35.293		
10,400.00	7,730.00	7,701.00	7,701.00	49.27	133.43	-90.00	-5,617.75	5,744.15	6,309.71	6,128.94	180.77	34.905		
10,500.00	7,730.00	7,701.00	7,701.00	49.26	133.43	-90.00	-5,617.75	5,744.15	6,227.15	6,046.73	180.42	34.514		
10,600.00	7,730.00	7,701.00	7,701.00	49.32	133.43	-90.00	-5,617.75	5,744.15	6,145.12	5,965.02	180.10	34.121		
10,700.00	7,730.00	7,701.00	7,701.00	49.51	133.43	-90.00	-5,617.75	5,744.15	6,063.62	5,883.82	179.80	33.724		
10,800.00	7,730.00	7,701.00	7,701.00	49.83	133.43	-90.00	-5,617.75	5,744.15	5,982.68	5,803.15	179.53	33.324		
10,900.00	7,730.00	7,701.00	7,701.00	50.31	133.43	-90.00	-5,617.75	5,744.15	5,902.33	5,723.04	179.29	32.921		
11,000.00	7,730.00	7,701.00	7,701.00	50.96	133.43	-90.00	-5,617.75	5,744.15	5,822.58	5,643.50	179.09	32.513		
11,100.00	7,730.00	7,701.00	7,701.00	51.75	133.43	-90.00	-5,617.75	5,744.15	5,743.47	5,564.55	178.92	32.100		
11,200.00	7,730.00	7,701.00	7,701.00	52.66	133.43	-90.00	-5,617.75	5,744.15	5,665.02	5,486.22	178.80	31.683		
11,300.00	7,730.00	7,701.00	7,701.00	53.67	133.43	-90.00	-5,617.75	5,744.15	5,587.26	5,408.53	178.73	31.260		
11,400.00	7,730.00	7,701.00	7,701.00	54.75	133.43	-90.00	-5,617.75	5,744.15	5,510.22	5,331.50	178.72	30.832		
11,500.00	7,730.00	7,701.00	7,701.00	55.89	133.43	-90.00	-5,617.75	5,744.15	5,433.92	5,255.17	178.75	30.399		
11,600.00	7,730.00	7,701.00	7,701.00	57.07	133.43	-90.00	-5,617.75	5,744.15	5,358.41	5,179.55	178.86	29.959		
11,700.00	7,730.00	7,701.00	7,701.00	58.30	133.43	-90.00	-5,617.75	5,744.15	5,283.70	5,104.68	179.02	29.514		
11,800.00	7,730.00	7,701.00	7,701.00	59.55	133.43	-90.00	-5,617.75	5,744.15	5,209.85	5,030.59	179.26	29.062		
11,900.00	7,730.00	7,701.00	7,701.00	60.84	133.43	-90.00	-5,617.75	5,744.15	5,136.88	4,957.30	179.58	28.605		
12,000.00	7,730.00	7,701.00	7,701.00	62.15	133.43	-90.00	-5,617.75	5,744.15	5,064.83	4,884.86	179.98	28.141		
12,100.00	7,730.00	7,701.00	7,701.00	63.49	133.43	-90.00	-5,617.75	5,744.15	4,993.75	4,813.29	180.46	27.672		
12,200.00	7,730.00	7,701.00	7,701.00	64.85	133.43	-90.00	-5,617.75	5,744.15	4,923.67	4,742.64	181.03	27.198		
12,300.00	7,730.00	7,701.00	7,701.00	66.22	133.43	-90.00	-5,617.75	5,744.15	4,854.64	4,672.95	181.70	26.719		
12,400.00	7,730.00	7,701.00	7,701.00	67.62	133.43	-90.00	-5,617.75	5,744.15	4,786.71	4,604.25	182.45	26.235		
12,500.00	7,730.00	7,701.00	7,701.00	69.03	133.43	-90.00	-5,617.75	5,744.15	4,719.91	4,536.60	183.31	25.748		
12,600.00	7,730.00	7,701.00	7,701.00	70.45	133.43	-90.00	-5,617.75	5,744.15	4,654.31	4,470.04	184.27	25.258		
12,700.00	7,730.00	7,701.00	7,701.00	71.90	133.43	-90.00	-5,617.75	5,744.15	4,589.95	4,404.61	185.33	24.766		
12,800.00	7,730.00	7,701.00	7,701.00	73.35	133.43	-90.00	-5,617.75	5,744.15	4,526.88	4,340.38	186.50	24.273		
12,900.00	7,730.00	7,701.00	7,701.00	74.81	133.43	-90.00	-5,617.75	5,744.15	4,465.16	4,277.39	187.76	23.781		
13,000.00	7,730.00	7,701.00	7,701.00	76.29	133.43	-90.00	-5,617.75	5,744.15	4,404.84	4,215.71	189.13	23.289		
13,100.00	7,730.00	7,701.00	7,701.00	77.78	133.43	-90.00	-5,617.75	5,744.15	4,345.99	4,155.38	190.61	22.801		
13,200.00	7,730.00	7,701.00	7,701.00	79.28	133.43	-90.00	-5,617.75	5,744.15	4,288.66	4,096.48	192.18	22.315		
13,300.00	7,730.00	7,701.00	7,701.00	80.79	133.43	-90.00	-5,617.75	5,744.15	4,232.92	4,039.06	193.86	21.835		
13,400.00	7,730.00	7,701.00	7,701.00	82.31	133.43	-90.00	-5,617.75	5,744.15	4,178.83	3,983.20	195.63	21.360		
13,500.00	7,730.00	7,701.00	7,701.00	83.84	133.43	-90.00	-5,617.75	5,744.15	4,126.46	3,928.96	197.50	20.893		
13,600.00	7,730.00	7,701.00	7,701.00	85.37	133.43	-90.00	-5,617.75	5,744.15	4,075.86	3,876.40	199.46	20.434		
13,700.00	7,730.00	7,701.00	7,701.00	86.92	133.43	-90.00	-5,617.75	5,744.15	4,027.12	3,825.61	201.51	19.985		
13,800.00	7,730.00	7,701.00	7,701.00	88.47	133.43	-90.00	-5,617.75	5,744.15	3,980.29	3,776.65	203.63	19.546		
13,900.00	7,730.00	7,701.00	7,701.00	90.03	133.43	-90.00	-5,617.75	5,744.15	3,935.44	3,729.60	205.84	19.119		
14,000.00	7,730.00	7,701.00	7,701.00	91.59	133.43	-90.00	-5,617.75	5,744.15	3,892.65	3,684.53	208.12	18.704		
14,100.00	7,730.00	7,701.00	7,701.00	93.16	133.43	-90.00	-5,617.75	5,744.15	3,851.97	3,641.52	210.46	18.303		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,701.00	7,701.00	94.74	133.43	-90.00	-5,617.75	5,744.15	3,813.49	3,600.63	212.86	17.915		
14,300.00	7,730.00	7,701.00	7,701.00	96.33	133.43	-90.00	-5,617.75	5,744.15	3,777.26	3,561.95	215.31	17.543		
14,400.00	7,730.00	7,701.00	7,701.00	97.92	133.43	-90.00	-5,617.75	5,744.15	3,743.36	3,525.55	217.81	17.186		
14,500.00	7,730.00	7,701.00	7,701.00	99.51	133.43	-90.00	-5,617.75	5,744.15	3,711.84	3,491.49	220.34	16.846		
14,600.00	7,730.00	7,701.00	7,701.00	101.11	133.43	-90.00	-5,617.75	5,744.15	3,682.76	3,459.86	222.91	16.522		
14,700.00	7,730.00	7,701.00	7,701.00	102.72	133.43	-90.00	-5,617.75	5,744.15	3,656.19	3,430.71	225.49	16.215		
14,800.00	7,730.00	7,701.00	7,701.00	104.33	133.43	-90.00	-5,617.75	5,744.15	3,632.18	3,404.11	228.08	15.925		
14,900.00	7,730.00	7,701.00	7,701.00	105.94	133.43	-90.00	-5,617.75	5,744.15	3,610.79	3,380.12	230.67	15.653		
15,000.00	7,730.00	7,701.00	7,701.00	107.56	133.43	-90.00	-5,617.75	5,744.15	3,592.04	3,358.79	233.25	15.400		
15,100.00	7,730.00	7,701.00	7,701.00	109.18	133.43	-90.00	-5,617.75	5,744.15	3,576.00	3,340.18	235.82	15.164		
15,200.00	7,730.00	7,701.00	7,701.00	110.81	133.43	-90.00	-5,617.75	5,744.15	3,562.69	3,324.33	238.36	14.946		
15,300.00	7,730.00	7,701.00	7,701.00	112.44	133.43	-90.00	-5,617.75	5,744.15	3,552.15	3,311.28	240.87	14.747		
15,400.00	7,730.00	7,701.00	7,701.00	114.08	133.43	-90.00	-5,617.75	5,744.15	3,544.41	3,301.07	243.33	14.566		
15,500.00	7,730.00	7,701.00	7,701.00	115.72	133.43	-90.00	-5,617.75	5,744.15	3,539.47	3,293.72	245.75	14.403		
15,600.00	7,730.00	7,701.00	7,701.00	117.36	133.43	-90.00	-5,617.75	5,744.15	3,537.35	3,289.25	248.10	14.258		
15,624.96	7,730.00	7,701.00	7,701.00	117.77	133.43	-90.00	-5,617.75	5,744.15	3,537.26	3,288.59	248.67	14.225 CC		
15,700.00	7,730.00	7,701.00	7,701.00	119.00	133.43	-90.00	-5,617.75	5,744.15	3,538.05	3,287.67	250.38	14.131 ES		
15,800.00	7,730.00	7,701.00	7,701.00	120.65	133.43	-90.00	-5,617.75	5,744.15	3,541.59	3,289.00	252.59	14.021		
15,900.00	7,730.00	7,701.00	7,701.00	122.30	133.43	-90.00	-5,617.75	5,744.15	3,547.94	3,293.21	254.72	13.929		
16,000.00	7,730.00	7,701.00	7,701.00	123.96	133.43	-90.00	-5,617.75	5,744.15	3,557.08	3,300.32	256.77	13.853		
16,100.00	7,730.00	7,701.00	7,701.00	125.61	133.43	-90.00	-5,617.75	5,744.15	3,569.01	3,310.29	258.72	13.795		
16,200.00	7,730.00	7,701.00	7,701.00	127.27	133.43	-90.00	-5,617.75	5,744.15	3,583.69	3,323.11	260.58	13.753		
16,300.00	7,730.00	7,701.00	7,701.00	128.94	133.43	-90.00	-5,617.75	5,744.15	3,601.09	3,338.74	262.35	13.726		
16,400.00	7,730.00	7,701.00	7,701.00	130.60	133.43	-90.00	-5,617.75	5,744.15	3,621.17	3,357.15	264.02	13.716 SF		
16,500.00	7,730.00	7,701.00	7,701.00	132.27	133.43	-90.00	-5,617.75	5,744.15	3,643.88	3,378.29	265.59	13.720		
16,600.00	7,730.00	7,701.00	7,701.00	133.94	133.43	-90.00	-5,617.75	5,744.15	3,669.18	3,402.12	267.06	13.739		
16,700.00	7,730.00	7,701.00	7,701.00	135.61	133.43	-90.00	-5,617.75	5,744.15	3,697.01	3,428.58	268.43	13.773		
16,800.00	7,730.00	7,701.00	7,701.00	137.28	133.43	-90.00	-5,617.75	5,744.15	3,727.32	3,457.62	269.70	13.820		
16,900.00	7,730.00	7,701.00	7,701.00	138.96	133.43	-90.00	-5,617.75	5,744.15	3,760.04	3,489.17	270.88	13.881		
17,000.00	7,730.00	7,701.00	7,701.00	140.64	133.43	-90.00	-5,617.75	5,744.15	3,795.12	3,523.16	271.96	13.955		
17,100.00	7,730.00	7,701.00	7,701.00	142.32	133.43	-90.00	-5,617.75	5,744.15	3,832.48	3,559.54	272.94	14.041		
17,200.00	7,730.00	7,701.00	7,701.00	144.00	133.43	-90.00	-5,617.75	5,744.15	3,872.07	3,598.23	273.84	14.140		
17,300.00	7,730.00	7,701.00	7,701.00	145.69	133.43	-90.00	-5,617.75	5,744.15	3,913.82	3,639.16	274.65	14.250		
17,400.00	7,730.00	7,701.00	7,701.00	147.37	133.43	-90.00	-5,617.75	5,744.15	3,957.65	3,682.27	275.38	14.372		
17,500.00	7,730.00	7,701.00	7,701.00	149.06	133.43	-90.00	-5,617.75	5,744.15	4,003.49	3,727.47	276.03	14.504		
17,600.00	7,730.00	7,701.00	7,701.00	150.75	133.43	-90.00	-5,617.75	5,744.15	4,051.29	3,774.69	276.60	14.647		
17,700.00	7,730.00	7,701.00	7,701.00	152.44	133.43	-90.00	-5,617.75	5,744.15	4,100.97	3,823.87	277.10	14.800		
17,800.00	7,730.00	7,701.00	7,701.00	154.13	133.43	-90.00	-5,617.75	5,744.15	4,152.47	3,874.93	277.54	14.962		
17,900.00	7,730.00	7,701.00	7,701.00	155.83	133.43	-90.00	-5,617.75	5,744.15	4,205.71	3,927.80	277.91	15.134		
18,000.00	7,730.00	7,701.00	7,701.00	157.52	133.43	-90.00	-5,617.75	5,744.15	4,260.63	3,982.42	278.22	15.314		
18,100.00	7,730.00	7,701.00	7,701.00	159.22	133.43	-90.00	-5,617.75	5,744.15	4,317.18	4,038.71	278.47	15.503		
18,200.00	7,730.00	7,701.00	7,701.00	160.92	133.43	-90.00	-5,617.75	5,744.15	4,375.27	4,096.60	278.67	15.700		
18,300.00	7,730.00	7,701.00	7,701.00	162.62	133.43	-90.00	-5,617.75	5,744.15	4,434.86	4,156.04	278.82	15.906		
18,400.00	7,730.00	7,701.00	7,701.00	164.32	133.43	-90.00	-5,617.75	5,744.15	4,495.89	4,216.96	278.93	16.118		
18,426.22	7,730.00	7,701.00	7,701.00	164.76	133.43	-90.00	-5,617.75	5,744.15	4,512.12	4,233.17	278.95	16.175		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.14	-4,823.77	4,970.73	6,926.71					
100.00	100.00	52.00	52.00	0.13	0.40	134.14	-4,823.77	4,970.73	6,926.54	6,926.01	0.53	N/A		
200.00	200.00	152.00	152.00	0.49	1.68	134.14	-4,823.77	4,970.73	6,926.54	6,924.37	2.17	3,194.286		
300.00	300.00	252.00	252.00	0.85	3.42	134.14	-4,823.77	4,970.73	6,926.54	6,922.27	4.27	1,621.299		
400.00	400.00	352.00	352.00	1.21	5.17	134.14	-4,823.77	4,970.73	6,926.54	6,920.16	6.38	1,086.343		
500.00	500.00	452.00	452.00	1.57	6.91	134.14	-4,823.77	4,970.73	6,926.54	6,918.06	8.48	816.827		
600.00	600.00	552.00	552.00	1.93	8.66	134.14	-4,823.77	4,970.73	6,926.54	6,915.96	10.58	654.459		
700.00	700.00	652.00	652.00	2.29	10.40	134.14	-4,823.77	4,970.73	6,926.54	6,913.85	12.69	545.938		
800.00	800.00	752.00	752.00	2.64	12.15	134.14	-4,823.77	4,970.73	6,926.54	6,911.75	14.79	468.287		
900.00	900.00	852.00	852.00	3.00	13.89	134.14	-4,823.77	4,970.73	6,926.54	6,909.65	16.90	409.975		
1,000.00	1,000.00	952.00	952.00	3.36	15.64	134.14	-4,823.77	4,970.73	6,926.54	6,907.54	19.00	364.577		
1,100.00	1,100.00	1,052.00	1,052.00	3.72	17.38	134.14	-4,823.77	4,970.73	6,926.54	6,905.44	21.10	328.231		
1,200.00	1,200.00	1,152.00	1,152.00	4.08	19.13	134.14	-4,823.77	4,970.73	6,926.54	6,903.33	23.21	298.475		
1,300.00	1,299.98	1,251.98	1,251.98	4.43	20.87	87.04	-4,823.77	4,970.73	6,926.45	6,901.14	25.31	273.698		
1,400.00	1,399.84	1,351.84	1,351.84	4.79	22.62	87.08	-4,823.77	4,970.73	6,926.18	6,898.78	27.40	252.746		
1,500.00	1,499.45	1,451.45	1,451.45	5.15	24.36	87.16	-4,823.77	4,970.73	6,925.74	6,896.24	29.50	234.773		
1,600.00	1,598.70	1,550.70	1,550.70	5.51	26.09	87.28	-4,823.77	4,970.73	6,925.15	6,893.55	31.60	219.174		
1,700.00	1,697.47	1,649.47	1,649.47	5.89	27.81	87.42	-4,823.77	4,970.73	6,924.41	6,890.72	33.70	205.496		
1,800.00	1,795.62	1,747.62	1,747.62	6.28	29.52	87.59	-4,823.77	4,970.73	6,923.57	6,887.77	35.80	193.388		
1,900.00	1,893.06	1,845.06	1,845.06	6.69	31.22	87.79	-4,823.77	4,970.73	6,922.64	6,884.72	37.92	182.580		
2,000.00	1,989.64	1,941.64	1,941.64	7.13	32.91	88.02	-4,823.77	4,970.73	6,921.66	6,881.62	40.04	172.860		
2,100.00	2,085.27	2,037.27	2,037.27	7.61	34.58	88.27	-4,823.77	4,970.73	6,920.67	6,878.48	42.18	164.060		
2,200.00	2,179.82	2,131.82	2,131.82	8.12	36.23	88.54	-4,823.77	4,970.73	6,919.71	6,875.36	44.34	156.044		
2,300.00	2,273.17	2,225.17	2,225.17	8.67	37.86	88.84	-4,823.77	4,970.73	6,918.83	6,872.30	46.53	148.705		
2,400.00	2,365.21	2,317.21	2,317.21	9.27	39.47	89.15	-4,823.77	4,970.73	6,918.09	6,869.35	48.73	141.956		
2,500.00	2,455.84	2,407.84	2,407.84	9.92	41.05	89.48	-4,823.77	4,970.73	6,917.53	6,866.56	50.97	135.725		
2,580.62	2,527.80	2,479.80	2,479.80	10.49	42.30	89.75	-4,823.77	4,970.73	6,917.25	6,864.47	52.79	131.039		
2,600.00	2,544.97	2,503.03	2,496.97	10.63	42.71	89.82	-4,823.77	4,970.73	6,917.22	6,863.88	53.33	129.698		
2,653.69	2,592.54	2,544.54	2,544.54	11.02	43.43	90.00	-4,823.77	4,970.73	6,917.17	6,862.72	54.45	127.026		
2,700.00	2,633.58	2,585.58	2,585.58	11.37	44.15	90.16	-4,823.77	4,970.73	6,917.20	6,861.69	55.52	124.599		
2,800.00	2,722.19	2,674.19	2,674.19	12.13	45.70	90.50	-4,823.77	4,970.73	6,917.50	6,859.68	57.83	119.627		
2,900.00	2,810.80	2,762.80	2,762.80	12.91	47.24	90.84	-4,823.77	4,970.73	6,918.11	6,857.96	60.15	115.007		
3,000.00	2,899.41	2,851.41	2,851.41	13.71	48.79	91.18	-4,823.77	4,970.73	6,919.03	6,856.54	62.50	110.710		
3,100.00	2,988.02	2,940.02	2,940.02	14.52	50.34	91.52	-4,823.77	4,970.73	6,920.26	6,855.41	64.85	106.708		
3,200.00	3,076.63	3,028.63	3,028.63	15.34	51.88	91.86	-4,823.77	4,970.73	6,921.80	6,854.59	67.22	102.976		
3,300.00	3,165.24	3,117.24	3,117.24	16.16	53.43	92.20	-4,823.77	4,970.73	6,923.65	6,854.06	69.59	99.490		
3,400.00	3,253.85	3,205.85	3,205.85	17.00	54.98	92.54	-4,823.77	4,970.73	6,925.81	6,853.84	71.97	96.229		
3,500.00	3,342.46	3,305.54	3,294.46	17.84	56.72	92.88	-4,823.77	4,970.73	6,928.28	6,853.73	74.55	92.932		
3,600.00	3,431.07	3,383.07	3,383.07	18.69	58.07	93.22	-4,823.77	4,970.73	6,931.06	6,854.31	76.75	90.306		
3,700.00	3,519.68	3,471.68	3,471.68	19.55	59.61	93.55	-4,823.77	4,970.73	6,934.15	6,855.00	79.15	87.612		
3,800.00	3,608.29	3,560.29	3,560.29	20.40	61.16	93.89	-4,823.77	4,970.73	6,937.55	6,856.00	81.54	85.076		
3,900.00	3,696.90	3,648.90	3,648.90	21.26	62.71	94.23	-4,823.77	4,970.73	6,941.25	6,857.30	83.95	82.687		
4,000.00	3,785.51	3,737.51	3,737.51	22.13	64.25	94.57	-4,823.77	4,970.73	6,945.26	6,858.91	86.35	80.431		
4,100.00	3,874.12	3,826.12	3,826.12	23.00	65.80	94.91	-4,823.77	4,970.73	6,949.58	6,860.82	88.76	78.300		
4,200.00	3,962.73	3,914.73	3,914.73	23.87	67.35	95.25	-4,823.77	4,970.73	6,954.20	6,863.04	91.16	76.284		
4,300.00	4,051.34	4,003.34	4,003.34	24.74	68.89	95.58	-4,823.77	4,970.73	6,959.13	6,865.56	93.57	74.374		
4,400.00	4,139.95	4,108.05	4,091.95	25.62	70.72	95.92	-4,823.77	4,970.73	6,964.36	6,868.11	96.26	72.350		
4,500.00	4,228.56	4,180.56	4,180.56	26.49	71.99	96.26	-4,823.77	4,970.73	6,969.90	6,871.52	98.39	70.842		
4,600.00	4,317.17	4,269.17	4,269.17	27.37	73.53	96.59	-4,823.77	4,970.73	6,975.75	6,874.95	100.80	69.207		
4,700.00	4,405.78	4,357.78	4,357.78	28.25	75.08	96.93	-4,823.77	4,970.73	6,981.89	6,878.69	103.20	67.652		
4,800.00	4,494.39	4,446.39	4,446.39	29.13	76.63	97.26	-4,823.77	4,970.73	6,988.34	6,882.73	105.61	66.170		
4,900.00	4,583.00	4,535.00	4,535.00	30.02	78.17	97.60	-4,823.77	4,970.73	6,995.09	6,887.07	108.02	64.758		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,623.61	4,623.61	30.90	79.72	97.93	-4,823.77	4,970.73	7,002.13	6,891.71	110.42	63.411		
5,100.00	4,760.22	4,712.22	4,712.22	31.79	81.27	98.26	-4,823.77	4,970.73	7,009.48	6,896.65	112.83	62.124		
5,200.00	4,848.83	4,800.83	4,800.83	32.67	82.81	98.60	-4,823.77	4,970.73	7,017.13	6,901.89	115.23	60.895		
5,300.00	4,937.44	4,889.44	4,889.44	33.56	84.36	98.93	-4,823.77	4,970.73	7,025.07	6,907.44	117.64	59.718		
5,400.00	5,026.05	4,978.05	4,978.05	34.45	85.91	99.26	-4,823.77	4,970.73	7,033.31	6,913.27	120.04	58.592		
5,500.00	5,114.66	5,066.66	5,066.66	35.34	87.45	99.59	-4,823.77	4,970.73	7,041.85	6,919.41	122.44	57.514		
5,600.00	5,203.27	5,155.27	5,155.27	36.23	89.00	99.92	-4,823.77	4,970.73	7,050.68	6,925.84	124.84	56.480		
5,700.00	5,291.88	5,243.88	5,243.88	37.12	90.55	100.25	-4,823.77	4,970.73	7,059.80	6,932.57	127.23	55.488		
5,800.00	5,380.50	5,332.50	5,332.50	38.01	92.09	100.58	-4,823.77	4,970.73	7,069.22	6,939.59	129.63	54.535		
5,900.00	5,469.11	5,421.11	5,421.11	38.90	93.64	100.91	-4,823.77	4,970.73	7,078.92	6,946.91	132.02	53.621		
6,000.00	5,557.72	5,509.72	5,509.72	39.79	95.19	101.24	-4,823.77	4,970.73	7,088.92	6,954.51	134.41	52.742		
6,100.00	5,646.33	5,601.67	5,598.33	40.68	96.79	101.56	-4,823.77	4,970.73	7,099.20	6,962.35	136.85	51.874		
6,200.00	5,734.94	5,686.94	5,686.94	41.58	98.28	101.89	-4,823.77	4,970.73	7,109.78	6,970.60	139.18	51.083		
6,300.00	5,823.55	5,775.55	5,775.55	42.47	99.82	102.22	-4,823.77	4,970.73	7,120.63	6,979.07	141.56	50.300		
6,400.00	5,912.16	5,864.16	5,864.16	43.36	101.37	102.54	-4,823.77	4,970.73	7,131.78	6,987.83	143.94	49.545		
6,500.00	6,000.77	5,952.77	5,952.77	44.26	102.92	102.86	-4,823.77	4,970.73	7,143.20	6,996.88	146.32	48.818		
6,600.00	6,089.38	6,041.38	6,041.38	45.15	104.46	103.19	-4,823.77	4,970.73	7,154.91	7,006.21	148.70	48.117		
6,700.00	6,177.99	6,129.99	6,129.99	46.05	106.01	103.51	-4,823.77	4,970.73	7,166.90	7,015.83	151.07	47.441		
6,800.00	6,266.60	6,218.60	6,218.60	46.94	107.56	103.83	-4,823.77	4,970.73	7,179.17	7,025.73	153.44	46.788		
6,900.00	6,355.21	6,307.21	6,307.21	47.84	109.10	104.15	-4,823.77	4,970.73	7,191.71	7,035.91	155.81	46.158		
7,000.00	6,443.82	6,404.18	6,395.82	48.74	110.80	104.47	-4,823.77	4,970.73	7,204.54	7,046.22	158.32	45.507		
7,100.00	6,532.43	6,484.43	6,484.43	49.63	112.20	104.79	-4,823.77	4,970.73	7,217.63	7,057.10	160.53	44.961		
7,200.00	6,621.04	6,573.04	6,573.04	50.53	113.74	105.11	-4,823.77	4,970.73	7,231.00	7,068.11	162.89	44.392		
7,300.00	6,709.65	6,661.65	6,661.65	51.42	115.29	105.42	-4,823.77	4,970.73	7,244.65	7,079.40	165.24	43.842		
7,400.00	6,798.26	6,750.26	6,750.26	52.32	116.84	105.74	-4,823.77	4,970.73	7,258.56	7,090.96	167.59	43.310		
7,500.00	6,886.87	6,838.87	6,838.87	53.22	118.38	106.05	-4,823.77	4,970.73	7,272.74	7,102.80	169.94	42.795		
7,600.00	6,975.48	6,927.48	6,927.48	54.12	119.93	106.37	-4,823.77	4,970.73	7,287.19	7,114.90	172.29	42.297		
7,656.30	7,025.36	6,977.36	6,977.36	54.62	120.80	106.54	-4,823.77	4,970.73	7,295.44	7,121.83	173.61	42.023		
7,700.00	7,064.54	7,016.54	7,016.54	55.00	121.48	99.72	-4,823.77	4,970.73	7,300.38	7,125.75	174.63	41.805		
7,750.00	7,110.29	7,062.29	7,062.29	55.40	122.28	89.90	-4,823.77	4,970.73	7,302.33	7,126.53	175.80	41.538		
7,800.00	7,156.67	7,108.67	7,108.67	55.75	123.09	78.06	-4,823.77	4,970.73	7,300.30	7,123.35	176.95	41.256		
7,850.00	7,203.34	7,155.34	7,155.34	56.05	123.91	65.00	-4,823.77	4,970.73	7,294.30	7,116.22	178.08	40.962		
7,900.00	7,249.95	7,201.95	7,201.95	56.30	124.72	52.02	-4,823.77	4,970.73	7,284.36	7,105.19	179.17	40.657		
7,950.00	7,296.14	7,248.14	7,248.14	56.50	125.53	40.30	-4,823.77	4,970.73	7,270.55	7,090.33	180.21	40.344		
8,000.00	7,341.56	7,306.44	7,293.56	56.64	126.54	30.33	-4,823.77	4,970.73	7,252.95	7,071.52	181.43	39.976		
8,050.00	7,385.86	7,337.86	7,337.86	56.74	127.09	22.05	-4,823.77	4,970.73	7,231.70	7,049.56	182.15	39.703		
8,100.00	7,428.71	7,380.71	7,380.71	56.79	127.84	15.10	-4,823.77	4,970.73	7,206.95	7,023.93	183.02	39.377		
8,150.00	7,469.77	7,421.77	7,421.77	56.80	128.56	9.10	-4,823.77	4,970.73	7,178.88	6,995.05	183.84	39.050		
8,200.00	7,508.75	7,460.75	7,460.75	56.77	129.24	3.66	-4,823.77	4,970.73	7,147.70	6,963.12	184.58	38.724		
8,250.00	7,545.33	7,502.67	7,497.33	56.70	129.97	-1.52	-4,823.77	4,970.73	7,113.65	6,928.31	185.34	38.382		
8,300.00	7,579.25	7,531.25	7,531.25	56.59	130.47	-6.76	-4,823.77	4,970.73	7,076.97	6,891.14	185.84	38.082		
8,350.00	7,610.24	7,562.24	7,562.24	56.45	131.01	-12.34	-4,823.77	4,970.73	7,037.96	6,851.62	186.34	37.769		
8,400.00	7,638.06	7,609.94	7,590.06	56.28	131.84	-18.58	-4,823.77	4,970.73	6,996.92	6,809.80	187.12	37.393		
8,450.00	7,662.52	7,614.52	7,614.52	56.09	131.92	-25.83	-4,823.77	4,970.73	6,954.16	6,767.05	187.11	37.166		
8,500.00	7,683.41	7,635.41	7,635.41	55.88	132.29	-34.44	-4,823.77	4,970.73	6,910.01	6,722.65	187.37	36.880		
8,550.00	7,700.59	7,652.59	7,652.59	55.64	132.59	-44.64	-4,823.77	4,970.73	6,864.83	6,677.30	187.53	36.606		
8,600.00	7,713.91	7,665.91	7,665.91	55.39	132.82	-56.31	-4,823.77	4,970.73	6,818.96	6,631.35	187.61	36.346		
8,650.00	7,723.29	7,675.29	7,675.29	55.14	132.98	-68.80	-4,823.77	4,970.73	6,772.78	6,585.17	187.61	36.100		
8,700.00	7,728.64	7,680.64	7,680.64	54.87	133.08	-81.00	-4,823.77	4,970.73	6,726.64	6,539.11	187.52	35.871		
8,740.83	7,730.00	7,682.00	7,682.00	54.65	133.10	-90.00	-4,823.77	4,970.73	6,689.24	6,501.86	187.39	35.697		
8,800.00	7,730.00	7,682.00	7,682.00	54.33	133.10	-90.00	-4,823.77	4,970.73	6,635.40	6,448.24	187.15	35.454		
8,900.00	7,730.00	7,682.00	7,682.00	53.82	133.10	-90.00	-4,823.77	4,970.73	6,544.60	6,357.84	186.75	35.044		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	7,682.00	7,682.00	53.33	133.10	-90.00	-4,823.77	4,970.73	6,454.07	6,267.72	186.35	34.634		
9,100.00	7,730.00	7,682.00	7,682.00	52.87	133.10	-90.00	-4,823.77	4,970.73	6,363.83	6,177.88	185.95	34.224		
9,200.00	7,730.00	7,682.00	7,682.00	52.44	133.10	-90.00	-4,823.77	4,970.73	6,273.88	6,088.34	185.54	33.815		
9,300.00	7,730.00	7,682.00	7,682.00	52.03	133.10	-90.00	-4,823.77	4,970.73	6,184.24	5,999.12	185.13	33.406		
9,400.00	7,730.00	7,682.00	7,682.00	51.65	133.10	-90.00	-4,823.77	4,970.73	6,094.93	5,910.21	184.71	32.997		
9,500.00	7,730.00	7,682.00	7,682.00	51.29	133.10	-90.00	-4,823.77	4,970.73	6,005.95	5,821.65	184.30	32.589		
9,600.00	7,730.00	7,682.00	7,682.00	50.95	133.10	-90.00	-4,823.77	4,970.73	5,917.32	5,733.44	183.88	32.180		
9,700.00	7,730.00	7,682.00	7,682.00	50.64	133.10	-90.00	-4,823.77	4,970.73	5,829.06	5,645.60	183.46	31.772		
9,800.00	7,730.00	7,682.00	7,682.00	50.35	133.10	-90.00	-4,823.77	4,970.73	5,741.19	5,558.14	183.05	31.364		
9,900.00	7,730.00	7,682.00	7,682.00	50.09	133.10	-90.00	-4,823.77	4,970.73	5,653.72	5,471.08	182.64	30.956		
10,000.00	7,730.00	7,682.00	7,682.00	49.86	133.10	-90.00	-4,823.77	4,970.73	5,566.67	5,384.43	182.23	30.547		
10,100.00	7,730.00	7,682.00	7,682.00	49.65	133.10	-90.00	-4,823.77	4,970.73	5,480.06	5,298.23	181.83	30.138		
10,200.00	7,730.00	7,682.00	7,682.00	49.48	133.10	-90.00	-4,823.77	4,970.73	5,393.92	5,212.48	181.44	29.729		
10,300.00	7,730.00	7,682.00	7,682.00	49.35	133.10	-90.00	-4,823.77	4,970.73	5,308.26	5,127.20	181.05	29.319		
10,400.00	7,730.00	7,682.00	7,682.00	49.27	133.10	-90.00	-4,823.77	4,970.73	5,223.11	5,042.43	180.68	28.908		
10,500.00	7,730.00	7,682.00	7,682.00	49.26	133.10	-90.00	-4,823.77	4,970.73	5,138.50	4,958.17	180.32	28.496		
10,600.00	7,730.00	7,682.00	7,682.00	49.32	133.10	-90.00	-4,823.77	4,970.73	5,054.45	4,874.46	179.99	28.083		
10,700.00	7,730.00	7,682.00	7,682.00	49.51	133.10	-90.00	-4,823.77	4,970.73	4,970.99	4,791.32	179.67	27.668		
10,800.00	7,730.00	7,682.00	7,682.00	49.83	133.10	-90.00	-4,823.77	4,970.73	4,888.15	4,708.77	179.37	27.251		
10,900.00	7,730.00	7,682.00	7,682.00	50.31	133.10	-90.00	-4,823.77	4,970.73	4,805.96	4,626.85	179.11	26.833		
11,000.00	7,730.00	7,682.00	7,682.00	50.96	133.10	-90.00	-4,823.77	4,970.73	4,724.46	4,545.58	178.88	26.412		
11,100.00	7,730.00	7,682.00	7,682.00	51.75	133.10	-90.00	-4,823.77	4,970.73	4,643.68	4,465.00	178.68	25.989		
11,200.00	7,730.00	7,682.00	7,682.00	52.66	133.10	-90.00	-4,823.77	4,970.73	4,563.67	4,385.14	178.53	25.562		
11,300.00	7,730.00	7,682.00	7,682.00	53.67	133.10	-90.00	-4,823.77	4,970.73	4,484.46	4,306.03	178.43	25.133		
11,400.00	7,730.00	7,682.00	7,682.00	54.75	133.10	-90.00	-4,823.77	4,970.73	4,406.09	4,227.71	178.38	24.700		
11,500.00	7,730.00	7,682.00	7,682.00	55.89	133.10	-90.00	-4,823.77	4,970.73	4,328.61	4,150.22	178.40	24.264		
11,600.00	7,730.00	7,682.00	7,682.00	57.07	133.10	-90.00	-4,823.77	4,970.73	4,252.08	4,073.60	178.48	23.824		
11,700.00	7,730.00	7,682.00	7,682.00	58.30	133.10	-90.00	-4,823.77	4,970.73	4,176.54	3,997.90	178.64	23.380		
11,800.00	7,730.00	7,682.00	7,682.00	59.55	133.10	-90.00	-4,823.77	4,970.73	4,102.04	3,923.16	178.88	22.932		
11,900.00	7,730.00	7,682.00	7,682.00	60.84	133.10	-90.00	-4,823.77	4,970.73	4,028.65	3,849.44	179.21	22.480		
12,000.00	7,730.00	7,682.00	7,682.00	62.15	133.10	-90.00	-4,823.77	4,970.73	3,956.42	3,776.78	179.64	22.024		
12,100.00	7,730.00	7,682.00	7,682.00	63.49	133.10	-90.00	-4,823.77	4,970.73	3,885.43	3,705.26	180.17	21.565		
12,200.00	7,730.00	7,682.00	7,682.00	64.85	133.10	-90.00	-4,823.77	4,970.73	3,815.74	3,634.92	180.81	21.103		
12,300.00	7,730.00	7,682.00	7,682.00	66.22	133.10	-90.00	-4,823.77	4,970.73	3,747.41	3,565.85	181.57	20.639		
12,400.00	7,730.00	7,682.00	7,682.00	67.62	133.10	-90.00	-4,823.77	4,970.73	3,680.54	3,498.09	182.45	20.173		
12,500.00	7,730.00	7,682.00	7,682.00	69.03	133.10	-90.00	-4,823.77	4,970.73	3,615.20	3,431.75	183.45	19.707		
12,600.00	7,730.00	7,682.00	7,682.00	70.45	133.10	-90.00	-4,823.77	4,970.73	3,551.47	3,366.88	184.59	19.240		
12,700.00	7,730.00	7,682.00	7,682.00	71.90	133.10	-90.00	-4,823.77	4,970.73	3,489.44	3,303.59	185.85	18.775		
12,800.00	7,730.00	7,682.00	7,682.00	73.35	133.10	-90.00	-4,823.77	4,970.73	3,429.21	3,241.96	187.25	18.313		
12,900.00	7,730.00	7,682.00	7,682.00	74.81	133.10	-90.00	-4,823.77	4,970.73	3,370.87	3,182.08	188.79	17.855		
13,000.00	7,730.00	7,682.00	7,682.00	76.29	133.10	-90.00	-4,823.77	4,970.73	3,314.52	3,124.06	190.46	17.403		
13,100.00	7,730.00	7,682.00	7,682.00	77.78	133.10	-90.00	-4,823.77	4,970.73	3,260.26	3,068.01	192.26	16.958		
13,200.00	7,730.00	7,682.00	7,682.00	79.28	133.10	-90.00	-4,823.77	4,970.73	3,208.21	3,014.02	194.18	16.522		
13,300.00	7,730.00	7,682.00	7,682.00	80.79	133.10	-90.00	-4,823.77	4,970.73	3,158.46	2,962.23	196.23	16.096		
13,400.00	7,730.00	7,682.00	7,682.00	82.31	133.10	-90.00	-4,823.77	4,970.73	3,111.13	2,912.74	198.39	15.682		
13,500.00	7,730.00	7,682.00	7,682.00	83.84	133.10	-90.00	-4,823.77	4,970.73	3,066.34	2,865.67	200.67	15.281		
13,600.00	7,730.00	7,682.00	7,682.00	85.37	133.10	-90.00	-4,823.77	4,970.73	3,024.18	2,821.15	203.04	14.895		
13,700.00	7,730.00	7,682.00	7,682.00	86.92	133.10	-90.00	-4,823.77	4,970.73	2,984.79	2,779.29	205.50	14.525		
13,800.00	7,730.00	7,682.00	7,682.00	88.47	133.10	-90.00	-4,823.77	4,970.73	2,948.26	2,740.22	208.04	14.172		
13,900.00	7,730.00	7,682.00	7,682.00	90.03	133.10	-90.00	-4,823.77	4,970.73	2,914.71	2,704.07	210.64	13.838		
14,000.00	7,730.00	7,682.00	7,682.00	91.59	133.10	-90.00	-4,823.77	4,970.73	2,884.23	2,670.94	213.29	13.523		
14,100.00	7,730.00	7,682.00	7,682.00	93.16	133.10	-90.00	-4,823.77	4,970.73	2,856.93	2,640.96	215.98	13.228		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,682.00	7,682.00	94.74	133.10	-90.00	-4,823.77	4,970.73	2,832.90	2,614.22	218.68	12.954		
14,300.00	7,730.00	7,682.00	7,682.00	96.33	133.10	-90.00	-4,823.77	4,970.73	2,812.23	2,590.83	221.39	12.702		
14,400.00	7,730.00	7,682.00	7,682.00	97.92	133.10	-90.00	-4,823.77	4,970.73	2,794.98	2,570.89	224.09	12.473		
14,500.00	7,730.00	7,682.00	7,682.00	99.51	133.10	-90.00	-4,823.77	4,970.73	2,781.22	2,554.46	226.76	12.265		
14,600.00	7,730.00	7,682.00	7,682.00	101.11	133.10	-90.00	-4,823.77	4,970.73	2,771.00	2,541.62	229.38	12.080		
14,700.00	7,730.00	7,682.00	7,682.00	102.72	133.10	-90.00	-4,823.77	4,970.73	2,764.37	2,532.42	231.95	11.918		
14,800.00	7,730.00	7,682.00	7,682.00	104.33	133.10	-90.00	-4,823.77	4,970.73	2,761.34	2,526.91	234.43	11.779		
14,833.62	7,730.00	7,682.00	7,682.00	104.87	133.10	-90.00	-4,823.77	4,970.73	2,761.14	2,525.88	235.25	11.737 CC		
14,900.00	7,730.00	7,682.00	7,682.00	105.94	133.10	-90.00	-4,823.77	4,970.73	2,761.93	2,525.10	236.83	11.662 ES		
15,000.00	7,730.00	7,682.00	7,682.00	107.56	133.10	-90.00	-4,823.77	4,970.73	2,766.14	2,527.01	239.13	11.567		
15,100.00	7,730.00	7,682.00	7,682.00	109.18	133.10	-90.00	-4,823.77	4,970.73	2,773.95	2,532.64	241.32	11.495		
15,200.00	7,730.00	7,682.00	7,682.00	110.81	133.10	-90.00	-4,823.77	4,970.73	2,785.34	2,541.95	243.39	11.444		
15,300.00	7,730.00	7,682.00	7,682.00	112.44	133.10	-90.00	-4,823.77	4,970.73	2,800.25	2,554.92	245.33	11.414		
15,400.00	7,730.00	7,682.00	7,682.00	114.08	133.10	-90.00	-4,823.77	4,970.73	2,818.63	2,571.49	247.14	11.405 SF		
15,500.00	7,730.00	7,682.00	7,682.00	115.72	133.10	-90.00	-4,823.77	4,970.73	2,840.41	2,591.60	248.81	11.416		
15,600.00	7,730.00	7,682.00	7,682.00	117.36	133.10	-90.00	-4,823.77	4,970.73	2,865.52	2,615.17	250.35	11.446		
15,700.00	7,730.00	7,682.00	7,682.00	119.00	133.10	-90.00	-4,823.77	4,970.73	2,893.87	2,642.12	251.75	11.495		
15,800.00	7,730.00	7,682.00	7,682.00	120.65	133.10	-90.00	-4,823.77	4,970.73	2,925.36	2,672.35	253.02	11.562		
15,900.00	7,730.00	7,682.00	7,682.00	122.30	133.10	-90.00	-4,823.77	4,970.73	2,959.90	2,705.75	254.16	11.646		
16,000.00	7,730.00	7,682.00	7,682.00	123.96	133.10	-90.00	-4,823.77	4,970.73	2,997.38	2,742.22	255.17	11.747		
16,100.00	7,730.00	7,682.00	7,682.00	125.61	133.10	-90.00	-4,823.77	4,970.73	3,037.69	2,781.64	256.05	11.863		
16,200.00	7,730.00	7,682.00	7,682.00	127.27	133.10	-90.00	-4,823.77	4,970.73	3,080.72	2,823.90	256.83	11.995		
16,300.00	7,730.00	7,682.00	7,682.00	128.94	133.10	-90.00	-4,823.77	4,970.73	3,126.36	2,868.87	257.49	12.142		
16,400.00	7,730.00	7,682.00	7,682.00	130.60	133.10	-90.00	-4,823.77	4,970.73	3,174.49	2,916.44	258.05	12.302		
16,500.00	7,730.00	7,682.00	7,682.00	132.27	133.10	-90.00	-4,823.77	4,970.73	3,225.01	2,966.49	258.51	12.475		
16,600.00	7,730.00	7,682.00	7,682.00	133.94	133.10	-90.00	-4,823.77	4,970.73	3,277.80	3,018.91	258.89	12.661		
16,700.00	7,730.00	7,682.00	7,682.00	135.61	133.10	-90.00	-4,823.77	4,970.73	3,332.75	3,073.57	259.18	12.859		
16,800.00	7,730.00	7,682.00	7,682.00	137.28	133.10	-90.00	-4,823.77	4,970.73	3,389.77	3,130.36	259.40	13.068		
16,900.00	7,730.00	7,682.00	7,682.00	138.96	133.10	-90.00	-4,823.77	4,970.73	3,448.74	3,189.19	259.55	13.287		
17,000.00	7,730.00	7,682.00	7,682.00	140.64	133.10	-90.00	-4,823.77	4,970.73	3,509.57	3,249.93	259.64	13.517		
17,100.00	7,730.00	7,682.00	7,682.00	142.32	133.10	-90.00	-4,823.77	4,970.73	3,572.16	3,312.49	259.67	13.757		
17,200.00	7,730.00	7,682.00	7,682.00	144.00	133.10	-90.00	-4,823.77	4,970.73	3,636.43	3,376.78	259.65	14.005		
17,300.00	7,730.00	7,682.00	7,682.00	145.69	133.10	-90.00	-4,823.77	4,970.73	3,702.28	3,442.70	259.58	14.262		
17,400.00	7,730.00	7,682.00	7,682.00	147.37	133.10	-90.00	-4,823.77	4,970.73	3,769.64	3,510.16	259.48	14.528		
17,500.00	7,730.00	7,682.00	7,682.00	149.06	133.10	-90.00	-4,823.77	4,970.73	3,838.42	3,579.08	259.34	14.801		
17,600.00	7,730.00	7,682.00	7,682.00	150.75	133.10	-90.00	-4,823.77	4,970.73	3,908.54	3,649.38	259.16	15.081		
17,700.00	7,730.00	7,682.00	7,682.00	152.44	133.10	-90.00	-4,823.77	4,970.73	3,979.95	3,720.99	258.96	15.369		
17,800.00	7,730.00	7,682.00	7,682.00	154.13	133.10	-90.00	-4,823.77	4,970.73	4,052.56	3,793.83	258.74	15.663		
17,900.00	7,730.00	7,682.00	7,682.00	155.83	133.10	-90.00	-4,823.77	4,970.73	4,126.32	3,867.83	258.49	15.963		
18,000.00	7,730.00	7,682.00	7,682.00	157.52	133.10	-90.00	-4,823.77	4,970.73	4,201.17	3,942.94	258.23	16.269		
18,100.00	7,730.00	7,682.00	7,682.00	159.22	133.10	-90.00	-4,823.77	4,970.73	4,277.04	4,019.10	257.95	16.581		
18,200.00	7,730.00	7,682.00	7,682.00	160.92	133.10	-90.00	-4,823.77	4,970.73	4,353.89	4,096.24	257.65	16.898		
18,300.00	7,730.00	7,682.00	7,682.00	162.62	133.10	-90.00	-4,823.77	4,970.73	4,431.66	4,174.32	257.35	17.221		
18,400.00	7,730.00	7,682.00	7,682.00	164.32	133.10	-90.00	-4,823.77	4,970.73	4,510.31	4,253.28	257.03	17.547		
18,426.22	7,730.00	7,682.00	7,682.00	164.76	133.10	-90.00	-4,823.77	4,970.73	4,531.07	4,274.12	256.95	17.634		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	142.38	-4,088.21	3,150.27	5,161.22					
100.00	100.00	77.00	77.00	0.13	0.60	142.38	-4,088.21	3,150.27	5,161.17	5,160.43	0.73	7,046.300		
200.00	200.00	177.00	177.00	0.49	2.12	142.38	-4,088.21	3,150.27	5,161.17	5,158.55	2.61	1,974.829		
300.00	300.00	277.00	277.00	0.85	3.87	142.38	-4,088.21	3,150.27	5,161.17	5,156.45	4.72	1,094.099		
400.00	400.00	377.00	377.00	1.21	5.61	142.38	-4,088.21	3,150.27	5,161.17	5,154.35	6.82	756.650		
500.00	500.00	477.00	477.00	1.57	7.36	142.38	-4,088.21	3,150.27	5,161.17	5,152.24	8.92	578.290		
600.00	600.00	577.00	577.00	1.93	9.10	142.38	-4,088.21	3,150.27	5,161.17	5,150.14	11.03	467.977		
700.00	700.00	677.00	677.00	2.29	10.85	142.38	-4,088.21	3,150.27	5,161.17	5,148.03	13.13	393.008		
800.00	800.00	777.00	777.00	2.64	12.59	142.38	-4,088.21	3,150.27	5,161.17	5,145.93	15.24	338.742		
900.00	900.00	877.00	877.00	3.00	14.34	142.38	-4,088.21	3,150.27	5,161.17	5,143.83	17.34	297.644		
1,000.00	1,000.00	977.00	977.00	3.36	16.08	142.38	-4,088.21	3,150.27	5,161.17	5,141.72	19.44	265.439		
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.83	142.38	-4,088.21	3,150.27	5,161.17	5,139.62	21.55	239.523		
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.57	142.38	-4,088.21	3,150.27	5,161.17	5,137.52	23.65	218.217		
1,300.00	1,299.98	1,276.98	1,276.98	4.43	21.32	95.28	-4,088.21	3,150.27	5,161.33	5,135.57	25.75	200.424		
1,400.00	1,399.84	1,376.84	1,376.84	4.79	23.06	95.33	-4,088.21	3,150.27	5,161.81	5,133.96	27.85	185.349		
1,500.00	1,499.45	1,476.45	1,476.45	5.15	24.80	95.41	-4,088.21	3,150.27	5,162.63	5,132.68	29.95	172.400		
1,600.00	1,598.70	1,575.70	1,575.70	5.51	26.53	95.52	-4,088.21	3,150.27	5,163.80	5,131.76	32.04	161.152		
1,700.00	1,697.47	1,674.47	1,674.47	5.89	28.26	95.66	-4,088.21	3,150.27	5,165.34	5,131.20	34.14	151.284		
1,800.00	1,795.62	1,772.62	1,772.62	6.28	29.97	95.82	-4,088.21	3,150.27	5,167.28	5,131.03	36.25	142.549		
1,900.00	1,893.06	1,870.06	1,870.06	6.69	31.67	96.02	-4,088.21	3,150.27	5,169.67	5,131.30	38.36	134.753		
2,000.00	1,989.64	1,966.64	1,966.64	7.13	33.36	96.24	-4,088.21	3,150.27	5,172.53	5,132.03	40.49	127.747		
2,100.00	2,085.27	2,062.27	2,062.27	7.61	35.02	96.48	-4,088.21	3,150.27	5,175.91	5,133.28	42.63	121.409		
2,200.00	2,179.82	2,156.82	2,156.82	8.12	36.67	96.74	-4,088.21	3,150.27	5,179.87	5,135.08	44.79	115.644		
2,300.00	2,273.17	2,250.17	2,250.17	8.67	38.30	97.01	-4,088.21	3,150.27	5,184.46	5,137.49	46.97	110.374		
2,400.00	2,365.21	2,342.21	2,342.21	9.27	39.91	97.30	-4,088.21	3,150.27	5,189.75	5,140.57	49.17	105.537		
2,500.00	2,455.84	2,432.84	2,432.84	9.92	41.49	97.60	-4,088.21	3,150.27	5,195.78	5,144.38	51.40	101.081		
2,580.62	2,527.80	2,504.80	2,504.80	10.49	42.75	97.85	-4,088.21	3,150.27	5,201.25	5,148.03	53.22	97.739		
2,600.00	2,544.97	2,521.97	2,521.97	10.63	43.05	97.94	-4,088.21	3,150.27	5,202.64	5,148.98	53.65	96.966		
2,700.00	2,633.58	2,610.58	2,610.58	11.37	44.59	98.39	-4,088.21	3,150.27	5,210.04	5,154.11	55.93	93.151		
2,800.00	2,722.19	2,700.81	2,699.19	12.13	46.17	98.83	-4,088.21	3,150.27	5,217.85	5,159.59	58.26	89.567		
2,900.00	2,810.80	2,787.80	2,787.80	12.91	47.69	99.28	-4,088.21	3,150.27	5,226.06	5,165.51	60.54	86.323		
3,000.00	2,899.41	2,876.41	2,876.41	13.71	49.23	99.72	-4,088.21	3,150.27	5,234.66	5,171.79	62.87	83.267		
3,100.00	2,988.02	2,965.02	2,965.02	14.52	50.78	100.17	-4,088.21	3,150.27	5,243.66	5,178.46	65.20	80.423		
3,200.00	3,076.63	3,053.63	3,053.63	15.34	52.33	100.61	-4,088.21	3,150.27	5,253.05	5,185.51	67.54	77.772		
3,300.00	3,165.24	3,142.24	3,142.24	16.16	53.87	101.05	-4,088.21	3,150.27	5,262.83	5,192.94	69.89	75.298		
3,400.00	3,253.85	3,230.85	3,230.85	17.00	55.42	101.49	-4,088.21	3,150.27	5,273.01	5,200.76	72.25	72.986		
3,500.00	3,342.46	3,319.46	3,319.46	17.84	56.97	101.93	-4,088.21	3,150.27	5,283.57	5,208.96	74.60	70.821		
3,600.00	3,431.07	3,408.07	3,408.07	18.69	58.51	102.37	-4,088.21	3,150.27	5,294.51	5,217.55	76.96	68.792		
3,700.00	3,519.68	3,503.32	3,496.68	19.55	60.18	102.81	-4,088.21	3,150.27	5,305.84	5,226.40	79.44	66.790		
3,800.00	3,608.29	3,585.29	3,585.29	20.40	61.61	103.24	-4,088.21	3,150.27	5,317.54	5,235.86	81.69	65.096		
3,900.00	3,696.90	3,673.90	3,673.90	21.26	63.15	103.67	-4,088.21	3,150.27	5,329.63	5,245.58	84.05	63.411		
4,000.00	3,785.51	3,762.51	3,762.51	22.13	64.70	104.11	-4,088.21	3,150.27	5,342.09	5,255.68	86.41	61.821		
4,100.00	3,874.12	3,851.12	3,851.12	23.00	66.25	104.54	-4,088.21	3,150.27	5,354.92	5,266.15	88.77	60.321		
4,200.00	3,962.73	3,939.73	3,939.73	23.87	67.79	104.96	-4,088.21	3,150.27	5,368.12	5,276.99	91.13	58.904		
4,300.00	4,051.34	4,028.34	4,028.34	24.74	69.34	105.39	-4,088.21	3,150.27	5,381.69	5,288.20	93.49	57.563		
4,400.00	4,139.95	4,116.95	4,116.95	25.62	70.89	105.82	-4,088.21	3,150.27	5,395.62	5,299.77	95.85	56.293		
4,500.00	4,228.56	4,205.56	4,205.56	26.49	72.43	106.24	-4,088.21	3,150.27	5,409.91	5,311.71	98.20	55.089		
4,600.00	4,317.17	4,305.83	4,294.17	27.37	74.18	106.66	-4,088.21	3,150.27	5,424.56	5,323.80	100.76	53.837		
4,700.00	4,405.78	4,382.78	4,382.78	28.25	75.53	107.08	-4,088.21	3,150.27	5,439.57	5,336.66	102.90	52.860		
4,800.00	4,494.39	4,471.39	4,471.39	29.13	77.07	107.50	-4,088.21	3,150.27	5,454.93	5,349.68	105.25	51.828		
4,900.00	4,583.00	4,560.00	4,560.00	30.02	78.62	107.91	-4,088.21	3,150.27	5,470.64	5,363.04	107.60	50.845		
5,000.00	4,671.61	4,648.61	4,648.61	30.90	80.16	108.33	-4,088.21	3,150.27	5,486.69	5,376.76	109.94	49.908		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,737.22	4,737.22	31.79	81.71	108.74	-4,088.21	3,150.27	5,503.09	5,390.82	112.27	49.016		
5,200.00	4,848.83	4,825.83	4,825.83	32.67	83.26	109.15	-4,088.21	3,150.27	5,519.83	5,405.23	114.61	48.164		
5,300.00	4,937.44	4,914.44	4,914.44	33.56	84.80	109.55	-4,088.21	3,150.27	5,536.91	5,419.97	116.94	47.350		
5,400.00	5,026.05	5,003.05	5,003.05	34.45	86.35	109.96	-4,088.21	3,150.27	5,554.32	5,435.06	119.26	46.572		
5,500.00	5,114.66	5,108.34	5,091.66	35.34	88.19	110.36	-4,088.21	3,150.27	5,572.06	5,450.19	121.88	45.719		
5,600.00	5,203.27	5,180.27	5,180.27	36.23	89.44	110.76	-4,088.21	3,150.27	5,590.13	5,466.23	123.90	45.117		
5,700.00	5,291.88	5,268.88	5,268.88	37.12	90.99	111.16	-4,088.21	3,150.27	5,608.53	5,482.31	126.22	44.436		
5,800.00	5,380.50	5,357.50	5,357.50	38.01	92.54	111.56	-4,088.21	3,150.27	5,627.24	5,498.72	128.53	43.783		
5,900.00	5,469.11	5,446.11	5,446.11	38.90	94.08	111.96	-4,088.21	3,150.27	5,646.28	5,515.45	130.83	43.156		
6,000.00	5,557.72	5,534.72	5,534.72	39.79	95.63	112.35	-4,088.21	3,150.27	5,665.63	5,532.49	133.13	42.556		
6,100.00	5,646.33	5,623.33	5,623.33	40.68	97.18	112.74	-4,088.21	3,150.27	5,685.29	5,549.86	135.43	41.979		
6,200.00	5,734.94	5,711.94	5,711.94	41.58	98.72	113.13	-4,088.21	3,150.27	5,705.26	5,567.54	137.73	41.425		
6,300.00	5,823.55	5,800.55	5,800.55	42.47	100.27	113.51	-4,088.21	3,150.27	5,725.54	5,585.52	140.01	40.892		
6,400.00	5,912.16	5,889.16	5,889.16	43.36	101.82	113.90	-4,088.21	3,150.27	5,746.12	5,603.82	142.30	40.381		
6,500.00	6,000.77	5,977.77	5,977.77	44.26	103.36	114.28	-4,088.21	3,150.27	5,767.00	5,622.42	144.58	39.888		
6,600.00	6,089.38	6,066.38	6,066.38	45.15	104.91	114.66	-4,088.21	3,150.27	5,788.17	5,641.31	146.85	39.414		
6,700.00	6,177.99	6,154.99	6,154.99	46.05	106.46	115.04	-4,088.21	3,150.27	5,809.64	5,660.51	149.13	38.958		
6,800.00	6,266.60	6,243.60	6,243.60	46.94	108.00	115.41	-4,088.21	3,150.27	5,831.39	5,680.00	151.39	38.518		
6,900.00	6,355.21	6,332.21	6,332.21	47.84	109.55	115.78	-4,088.21	3,150.27	5,853.43	5,699.78	153.65	38.095		
7,000.00	6,443.82	6,420.82	6,420.82	48.74	111.10	116.15	-4,088.21	3,150.27	5,875.76	5,719.85	155.91	37.686		
7,100.00	6,532.43	6,509.43	6,509.43	49.63	112.64	116.52	-4,088.21	3,150.27	5,898.36	5,740.20	158.17	37.292		
7,200.00	6,621.04	6,601.96	6,598.04	50.53	114.26	116.89	-4,088.21	3,150.27	5,921.24	5,760.76	160.48	36.896		
7,300.00	6,709.65	6,686.65	6,686.65	51.42	115.74	117.25	-4,088.21	3,150.27	5,944.40	5,781.74	162.66	36.545		
7,400.00	6,798.26	6,775.26	6,775.26	52.32	117.28	117.61	-4,088.21	3,150.27	5,967.82	5,802.92	164.90	36.191		
7,500.00	6,886.87	6,863.87	6,863.87	53.22	118.83	117.97	-4,088.21	3,150.27	5,991.51	5,824.38	167.13	35.848		
7,600.00	6,975.48	6,952.48	6,952.48	54.12	120.38	118.32	-4,088.21	3,150.27	6,015.47	5,846.10	169.37	35.518		
7,656.30	7,025.36	7,002.36	7,002.36	54.62	121.25	118.52	-4,088.21	3,150.27	6,029.07	5,858.45	170.62	35.336		
7,700.00	7,064.54	7,041.54	7,041.54	55.00	121.93	111.70	-4,088.21	3,150.27	6,038.42	5,866.49	171.60	35.188		
7,750.00	7,110.29	7,087.29	7,087.29	55.40	122.73	101.95	-4,088.21	3,150.27	6,044.51	5,871.78	172.72	34.996		
7,800.00	7,156.67	7,133.67	7,133.67	55.75	123.54	90.26	-4,088.21	3,150.27	6,046.71	5,872.87	173.85	34.782		
7,850.00	7,203.34	7,180.34	7,180.34	56.05	124.35	77.43	-4,088.21	3,150.27	6,044.68	5,869.72	174.96	34.550		
7,900.00	7,249.95	7,226.95	7,226.95	56.30	125.17	64.77	-4,088.21	3,150.27	6,038.42	5,862.38	176.04	34.301		
7,950.00	7,296.14	7,273.14	7,273.14	56.50	125.97	53.46	-4,088.21	3,150.27	6,027.98	5,850.88	177.09	34.039		
8,000.00	7,341.56	7,318.56	7,318.56	56.64	126.76	44.02	-4,088.21	3,150.27	6,013.41	5,835.31	178.10	33.763		
8,050.00	7,385.86	7,362.86	7,362.86	56.74	127.54	36.41	-4,088.21	3,150.27	5,994.84	5,815.77	179.07	33.478		
8,100.00	7,428.71	7,405.71	7,405.71	56.79	128.29	30.29	-4,088.21	3,150.27	5,972.39	5,792.40	179.98	33.183		
8,150.00	7,469.77	7,446.77	7,446.77	56.80	129.00	25.30	-4,088.21	3,150.27	5,946.22	5,765.37	180.84	32.881		
8,200.00	7,508.75	7,485.75	7,485.75	56.77	129.68	21.11	-4,088.21	3,150.27	5,916.52	5,734.88	181.64	32.573		
8,250.00	7,545.33	7,522.33	7,522.33	56.70	130.32	17.45	-4,088.21	3,150.27	5,883.52	5,701.15	182.37	32.261		
8,300.00	7,579.25	7,556.25	7,556.25	56.59	130.91	14.09	-4,088.21	3,150.27	5,847.46	5,664.42	183.03	31.947		
8,350.00	7,610.24	7,587.24	7,587.24	56.45	131.45	10.81	-4,088.21	3,150.27	5,808.60	5,624.98	183.62	31.633		
8,400.00	7,638.06	7,615.06	7,615.06	56.28	131.94	7.35	-4,088.21	3,150.27	5,767.24	5,583.11	184.14	31.320		
8,450.00	7,662.52	7,639.52	7,639.52	56.09	132.37	3.37	-4,088.21	3,150.27	5,723.70	5,539.12	184.57	31.010		
8,500.00	7,683.41	7,660.41	7,660.41	55.88	132.73	-1.65	-4,088.21	3,150.27	5,678.29	5,493.36	184.93	30.705		
8,550.00	7,700.59	7,677.59	7,677.59	55.64	133.03	-8.67	-4,088.21	3,150.27	5,631.37	5,446.16	185.21	30.406		
8,600.00	7,713.91	7,709.09	7,709.09	55.39	133.58	-19.57	-4,088.21	3,150.27	5,583.29	5,397.57	185.72	30.063		
8,650.00	7,723.29	7,700.29	7,700.29	55.14	133.43	-37.78	-4,088.21	3,150.27	5,534.43	5,348.91	185.52	29.833		
8,700.00	7,728.64	7,705.64	7,705.64	54.87	133.52	-65.74	-4,088.21	3,150.27	5,485.15	5,299.60	185.55	29.562		
8,740.83	7,730.00	7,707.00	7,707.00	54.65	133.54	-90.00	-4,088.21	3,150.27	5,444.87	5,259.36	185.52	29.350		
8,800.00	7,730.00	7,707.00	7,707.00	54.33	133.54	-90.00	-4,088.21	3,150.27	5,386.60	5,201.17	185.43	29.049		
8,900.00	7,730.00	7,707.00	7,707.00	53.82	133.54	-90.00	-4,088.21	3,150.27	5,288.16	5,102.87	185.29	28.540		
9,000.00	7,730.00	7,707.00	7,707.00	53.33	133.54	-90.00	-4,088.21	3,150.27	5,189.77	5,004.63	185.14	28.032		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,707.00	7,707.00	52.87	133.54	-90.00	-4,088.21	3,150.27	5,091.45	4,906.47	184.98	27.524		
9,200.00	7,730.00	7,707.00	7,707.00	52.44	133.54	-90.00	-4,088.21	3,150.27	4,993.20	4,808.37	184.83	27.016		
9,300.00	7,730.00	7,707.00	7,707.00	52.03	133.54	-90.00	-4,088.21	3,150.27	4,895.02	4,710.35	184.67	26.508		
9,400.00	7,730.00	7,707.00	7,707.00	51.65	133.54	-90.00	-4,088.21	3,150.27	4,796.91	4,612.41	184.50	26.000		
9,500.00	7,730.00	7,707.00	7,707.00	51.29	133.54	-90.00	-4,088.21	3,150.27	4,698.88	4,514.55	184.33	25.492		
9,600.00	7,730.00	7,707.00	7,707.00	50.95	133.54	-90.00	-4,088.21	3,150.27	4,600.94	4,416.78	184.15	24.984		
9,700.00	7,730.00	7,707.00	7,707.00	50.64	133.54	-90.00	-4,088.21	3,150.27	4,503.08	4,319.11	183.97	24.477		
9,800.00	7,730.00	7,707.00	7,707.00	50.35	133.54	-90.00	-4,088.21	3,150.27	4,405.33	4,221.54	183.78	23.970		
9,900.00	7,730.00	7,707.00	7,707.00	50.09	133.54	-90.00	-4,088.21	3,150.27	4,307.67	4,124.08	183.59	23.463		
10,000.00	7,730.00	7,707.00	7,707.00	49.86	133.54	-90.00	-4,088.21	3,150.27	4,210.13	4,026.73	183.40	22.956		
10,100.00	7,730.00	7,707.00	7,707.00	49.65	133.54	-90.00	-4,088.21	3,150.27	4,112.71	3,929.51	183.19	22.450		
10,200.00	7,730.00	7,707.00	7,707.00	49.48	133.54	-90.00	-4,088.21	3,150.27	4,015.41	3,832.42	182.98	21.944		
10,300.00	7,730.00	7,707.00	7,707.00	49.35	133.54	-90.00	-4,088.21	3,150.27	3,918.24	3,735.47	182.77	21.438		
10,400.00	7,730.00	7,707.00	7,707.00	49.27	133.54	-90.00	-4,088.21	3,150.27	3,821.23	3,638.68	182.55	20.933		
10,500.00	7,730.00	7,707.00	7,707.00	49.26	133.54	-90.00	-4,088.21	3,150.27	3,724.37	3,542.05	182.32	20.427		
10,600.00	7,730.00	7,707.00	7,707.00	49.32	133.54	-90.00	-4,088.21	3,150.27	3,627.68	3,445.59	182.09	19.922		
10,700.00	7,730.00	7,707.00	7,707.00	49.51	133.54	-90.00	-4,088.21	3,150.27	3,531.18	3,349.33	181.85	19.418		
10,800.00	7,730.00	7,707.00	7,707.00	49.83	133.54	-90.00	-4,088.21	3,150.27	3,434.88	3,253.27	181.61	18.914		
10,900.00	7,730.00	7,707.00	7,707.00	50.31	133.54	-90.00	-4,088.21	3,150.27	3,338.79	3,157.43	181.36	18.410		
11,000.00	7,730.00	7,707.00	7,707.00	50.96	133.54	-90.00	-4,088.21	3,150.27	3,242.94	3,061.84	181.10	17.907		
11,100.00	7,730.00	7,707.00	7,707.00	51.75	133.54	-90.00	-4,088.21	3,150.27	3,147.35	2,966.51	180.84	17.404		
11,200.00	7,730.00	7,707.00	7,707.00	52.66	133.54	-90.00	-4,088.21	3,150.27	3,052.04	2,871.46	180.58	16.901		
11,300.00	7,730.00	7,707.00	7,707.00	53.67	133.54	-90.00	-4,088.21	3,150.27	2,957.04	2,776.72	180.32	16.399		
11,400.00	7,730.00	7,707.00	7,707.00	54.75	133.54	-90.00	-4,088.21	3,150.27	2,862.38	2,682.33	180.05	15.897		
11,500.00	7,730.00	7,707.00	7,707.00	55.89	133.54	-90.00	-4,088.21	3,150.27	2,768.10	2,588.31	179.79	15.396		
11,600.00	7,730.00	7,707.00	7,707.00	57.07	133.54	-90.00	-4,088.21	3,150.27	2,674.24	2,494.70	179.53	14.895		
11,700.00	7,730.00	7,707.00	7,707.00	58.30	133.54	-90.00	-4,088.21	3,150.27	2,580.83	2,401.54	179.29	14.395		
11,800.00	7,730.00	7,707.00	7,707.00	59.55	133.54	-90.00	-4,088.21	3,150.27	2,487.94	2,308.88	179.05	13.895		
11,900.00	7,730.00	7,707.00	7,707.00	60.84	133.54	-90.00	-4,088.21	3,150.27	2,395.62	2,216.78	178.84	13.395		
12,000.00	7,730.00	7,707.00	7,707.00	62.15	133.54	-90.00	-4,088.21	3,150.27	2,303.94	2,125.28	178.66	12.896		
12,100.00	7,730.00	7,707.00	7,707.00	63.49	133.54	-90.00	-4,088.21	3,150.27	2,212.98	2,034.47	178.51	12.397		
12,200.00	7,730.00	7,707.00	7,707.00	64.85	133.54	-90.00	-4,088.21	3,150.27	2,122.83	1,944.41	178.42	11.898		
12,300.00	7,730.00	7,707.00	7,707.00	66.22	133.54	-90.00	-4,088.21	3,150.27	2,033.61	1,855.21	178.40	11.399		
12,400.00	7,730.00	7,707.00	7,707.00	67.62	133.54	-90.00	-4,088.21	3,150.27	1,945.43	1,766.97	178.47	10.901		
12,500.00	7,730.00	7,707.00	7,707.00	69.03	133.54	-90.00	-4,088.21	3,150.27	1,858.45	1,679.80	178.65	10.403		
12,600.00	7,730.00	7,707.00	7,707.00	70.45	133.54	-90.00	-4,088.21	3,150.27	1,772.85	1,593.87	178.98	9.905		
12,700.00	7,730.00	7,707.00	7,707.00	71.90	133.54	-90.00	-4,088.21	3,150.27	1,688.83	1,509.33	179.50	9.408		
12,800.00	7,730.00	7,707.00	7,707.00	73.35	133.54	-90.00	-4,088.21	3,150.27	1,606.64	1,426.39	180.25	8.913		
12,900.00	7,730.00	7,707.00	7,707.00	74.81	133.54	-90.00	-4,088.21	3,150.27	1,526.58	1,345.29	181.28	8.421		
13,000.00	7,730.00	7,707.00	7,707.00	76.29	133.54	-90.00	-4,088.21	3,150.27	1,448.99	1,266.34	182.65	7.933		
13,100.00	7,730.00	7,707.00	7,707.00	77.78	133.54	-90.00	-4,088.21	3,150.27	1,374.31	1,189.89	184.42	7.452		
13,200.00	7,730.00	7,707.00	7,707.00	79.28	133.54	-90.00	-4,088.21	3,150.27	1,303.02	1,116.38	186.64	6.981		
13,300.00	7,730.00	7,707.00	7,707.00	80.79	133.54	-90.00	-4,088.21	3,150.27	1,235.73	1,046.36	189.36	6.526		
13,400.00	7,730.00	7,707.00	7,707.00	82.31	133.54	-90.00	-4,088.21	3,150.27	1,173.10	980.49	192.61	6.091		
13,500.00	7,730.00	7,707.00	7,707.00	83.84	133.54	-90.00	-4,088.21	3,150.27	1,115.94	919.55	196.39	5.682		
13,600.00	7,730.00	7,707.00	7,707.00	85.37	133.54	-90.00	-4,088.21	3,150.27	1,065.11	864.47	200.64	5.308		
13,700.00	7,730.00	7,707.00	7,707.00	86.92	133.54	-90.00	-4,088.21	3,150.27	1,021.57	816.29	205.28	4.976		
13,800.00	7,730.00	7,707.00	7,707.00	88.47	133.54	-90.00	-4,088.21	3,150.27	986.28	776.14	210.14	4.694		
13,900.00	7,730.00	7,707.00	7,707.00	90.03	133.54	-90.00	-4,088.21	3,150.27	960.15	745.16	214.99	4.466		
14,000.00	7,730.00	7,707.00	7,707.00	91.59	133.54	-90.00	-4,088.21	3,150.27	943.95	724.35	219.60	4.298		
14,100.00	7,730.00	7,707.00	7,707.00	93.16	133.54	-90.00	-4,088.21	3,150.27	938.18	714.48	223.71	4.194		
14,104.27	7,730.00	7,707.00	7,707.00	93.23	133.54	-90.00	-4,088.21	3,150.27	938.17	714.31	223.87	4.191	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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	7,707.00	7,707.00	94.74	133.54	-90.00	-4,088.21	3,150.27	943.05	715.94	227.11	4.152 SF		
14,300.00	7,730.00	7,707.00	7,707.00	96.33	133.54	-90.00	-4,088.21	3,150.27	958.37	728.69	229.69	4.173		
14,400.00	7,730.00	7,707.00	7,707.00	97.92	133.54	-90.00	-4,088.21	3,150.27	983.68	752.27	231.41	4.251		
14,500.00	7,730.00	7,707.00	7,707.00	99.51	133.54	-90.00	-4,088.21	3,150.27	1,018.22	785.88	232.34	4.382		
14,600.00	7,730.00	7,707.00	7,707.00	101.11	133.54	-90.00	-4,088.21	3,150.27	1,061.09	828.50	232.60	4.562		
14,700.00	7,730.00	7,707.00	7,707.00	102.72	133.54	-90.00	-4,088.21	3,150.27	1,111.33	879.03	232.31	4.784		
14,800.00	7,730.00	7,707.00	7,707.00	104.33	133.54	-90.00	-4,088.21	3,150.27	1,167.99	936.37	231.62	5.043		
14,900.00	7,730.00	7,707.00	7,707.00	105.94	133.54	-90.00	-4,088.21	3,150.27	1,230.19	999.52	230.66	5.333		
15,000.00	7,730.00	7,707.00	7,707.00	107.56	133.54	-90.00	-4,088.21	3,150.27	1,297.11	1,067.59	229.52	5.651		
15,100.00	7,730.00	7,707.00	7,707.00	109.18	133.54	-90.00	-4,088.21	3,150.27	1,368.08	1,139.80	228.28	5.993		
15,200.00	7,730.00	7,707.00	7,707.00	110.81	133.54	-90.00	-4,088.21	3,150.27	1,442.50	1,215.49	227.00	6.354		
15,300.00	7,730.00	7,707.00	7,707.00	112.44	133.54	-90.00	-4,088.21	3,150.27	1,519.85	1,294.13	225.72	6.733		
15,400.00	7,730.00	7,707.00	7,707.00	114.08	133.54	-90.00	-4,088.21	3,150.27	1,599.72	1,375.25	224.46	7.127		
15,500.00	7,730.00	7,707.00	7,707.00	115.72	133.54	-90.00	-4,088.21	3,150.27	1,681.74	1,458.49	223.25	7.533		
15,600.00	7,730.00	7,707.00	7,707.00	117.36	133.54	-90.00	-4,088.21	3,150.27	1,765.61	1,543.53	222.08	7.950		
15,700.00	7,730.00	7,707.00	7,707.00	119.00	133.54	-90.00	-4,088.21	3,150.27	1,851.09	1,630.12	220.97	8.377		
15,800.00	7,730.00	7,707.00	7,707.00	120.65	133.54	-90.00	-4,088.21	3,150.27	1,937.96	1,718.03	219.93	8.812		
15,900.00	7,730.00	7,707.00	7,707.00	122.30	133.54	-90.00	-4,088.21	3,150.27	2,026.04	1,807.10	218.94	9.254		
16,000.00	7,730.00	7,707.00	7,707.00	123.96	133.54	-90.00	-4,088.21	3,150.27	2,115.17	1,897.17	218.01	9.702		
16,100.00	7,730.00	7,707.00	7,707.00	125.61	133.54	-90.00	-4,088.21	3,150.27	2,205.25	1,988.11	217.14	10.156		
16,200.00	7,730.00	7,707.00	7,707.00	127.27	133.54	-90.00	-4,088.21	3,150.27	2,296.14	2,079.82	216.32	10.615		
16,300.00	7,730.00	7,707.00	7,707.00	128.94	133.54	-90.00	-4,088.21	3,150.27	2,387.76	2,172.21	215.55	11.077		
16,400.00	7,730.00	7,707.00	7,707.00	130.60	133.54	-90.00	-4,088.21	3,150.27	2,480.03	2,265.20	214.83	11.544		
16,500.00	7,730.00	7,707.00	7,707.00	132.27	133.54	-90.00	-4,088.21	3,150.27	2,572.88	2,358.72	214.15	12.014		
16,600.00	7,730.00	7,707.00	7,707.00	133.94	133.54	-90.00	-4,088.21	3,150.27	2,666.24	2,452.72	213.52	12.487		
16,700.00	7,730.00	7,707.00	7,707.00	135.61	133.54	-90.00	-4,088.21	3,150.27	2,760.07	2,547.15	212.92	12.963		
16,800.00	7,730.00	7,707.00	7,707.00	137.28	133.54	-90.00	-4,088.21	3,150.27	2,854.32	2,641.96	212.36	13.441		
16,900.00	7,730.00	7,707.00	7,707.00	138.96	133.54	-90.00	-4,088.21	3,150.27	2,948.95	2,737.11	211.84	13.921		
17,000.00	7,730.00	7,707.00	7,707.00	140.64	133.54	-90.00	-4,088.21	3,150.27	3,043.92	2,832.58	211.34	14.403		
17,100.00	7,730.00	7,707.00	7,707.00	142.32	133.54	-90.00	-4,088.21	3,150.27	3,139.20	2,928.33	210.87	14.887		
17,200.00	7,730.00	7,707.00	7,707.00	144.00	133.54	-90.00	-4,088.21	3,150.27	3,234.77	3,024.33	210.43	15.372		
17,300.00	7,730.00	7,707.00	7,707.00	145.69	133.54	-90.00	-4,088.21	3,150.27	3,330.60	3,120.58	210.02	15.859		
17,400.00	7,730.00	7,707.00	7,707.00	147.37	133.54	-90.00	-4,088.21	3,150.27	3,426.66	3,217.04	209.63	16.347		
17,500.00	7,730.00	7,707.00	7,707.00	149.06	133.54	-90.00	-4,088.21	3,150.27	3,522.95	3,313.69	209.26	16.836		
17,600.00	7,730.00	7,707.00	7,707.00	150.75	133.54	-90.00	-4,088.21	3,150.27	3,619.43	3,410.53	208.91	17.326		
17,700.00	7,730.00	7,707.00	7,707.00	152.44	133.54	-90.00	-4,088.21	3,150.27	3,716.11	3,507.53	208.57	17.817		
17,800.00	7,730.00	7,707.00	7,707.00	154.13	133.54	-90.00	-4,088.21	3,150.27	3,812.95	3,604.69	208.26	18.309		
17,900.00	7,730.00	7,707.00	7,707.00	155.83	133.54	-90.00	-4,088.21	3,150.27	3,909.95	3,701.99	207.96	18.801		
18,000.00	7,730.00	7,707.00	7,707.00	157.52	133.54	-90.00	-4,088.21	3,150.27	4,007.10	3,799.42	207.68	19.294		
18,100.00	7,730.00	7,707.00	7,707.00	159.22	133.54	-90.00	-4,088.21	3,150.27	4,104.39	3,896.98	207.41	19.788		
18,200.00	7,730.00	7,707.00	7,707.00	160.92	133.54	-90.00	-4,088.21	3,150.27	4,201.81	3,994.65	207.16	20.283		
18,300.00	7,730.00	7,707.00	7,707.00	162.62	133.54	-90.00	-4,088.21	3,150.27	4,299.34	4,092.42	206.92	20.778		
18,400.00	7,730.00	7,707.00	7,707.00	164.32	133.54	-90.00	-4,088.21	3,150.27	4,396.98	4,190.29	206.69	21.273		
18,426.22	7,730.00	7,707.00	7,707.00	164.76	133.54	-90.00	-4,088.21	3,150.27	4,422.60	4,215.97	206.63	21.403		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	145.44	-7,866.58	5,419.49	9,552.72					
100.00	100.00	74.00	74.00	0.13	0.57	145.44	-7,866.58	5,419.49	9,552.69	9,551.99	0.70	N/A		
200.00	200.00	174.00	174.00	0.49	2.06	145.44	-7,866.58	5,419.49	9,552.69	9,550.14	2.55	3,742.648		
300.00	300.00	274.00	274.00	0.85	3.80	145.44	-7,866.58	5,419.49	9,552.69	9,548.03	4.66	2,051.611		
400.00	400.00	374.00	374.00	1.21	5.55	145.44	-7,866.58	5,419.49	9,552.69	9,545.93	6.76	1,413.122		
500.00	500.00	474.00	474.00	1.57	7.30	145.44	-7,866.58	5,419.49	9,552.69	9,543.83	8.86	1,077.720		
600.00	600.00	574.00	574.00	1.93	9.04	145.44	-7,866.58	5,419.49	9,552.69	9,541.72	10.97	870.992		
700.00	700.00	674.00	674.00	2.29	10.79	145.44	-7,866.58	5,419.49	9,552.69	9,539.62	13.07	730.809		
800.00	800.00	774.00	774.00	2.64	12.53	145.44	-7,866.58	5,419.49	9,552.69	9,537.51	15.18	629.494		
900.00	900.00	874.00	874.00	3.00	14.28	145.44	-7,866.58	5,419.49	9,552.69	9,535.41	17.28	552.850		
1,000.00	1,000.00	974.00	974.00	3.36	16.02	145.44	-7,866.58	5,419.49	9,552.69	9,533.31	19.38	492.844		
1,100.00	1,100.00	1,074.00	1,074.00	3.72	17.77	145.44	-7,866.58	5,419.49	9,552.69	9,531.20	21.49	444.588		
1,200.00	1,200.00	1,174.00	1,174.00	4.08	19.51	145.44	-7,866.58	5,419.49	9,552.69	9,529.10	23.59	404.940		
1,300.00	1,299.98	1,273.98	1,273.98	4.43	21.26	98.32	-7,866.58	5,419.49	9,552.94	9,527.25	25.69	371.839		
1,400.00	1,399.84	1,373.84	1,373.84	4.79	23.00	98.34	-7,866.58	5,419.49	9,553.70	9,525.91	27.79	343.804		
1,500.00	1,499.45	1,473.45	1,473.45	5.15	24.74	98.36	-7,866.58	5,419.49	9,554.97	9,525.09	29.88	319.725		
1,600.00	1,598.70	1,572.70	1,572.70	5.51	26.47	98.40	-7,866.58	5,419.49	9,556.76	9,524.78	31.98	298.813		
1,700.00	1,697.47	1,671.47	1,671.47	5.89	28.20	98.44	-7,866.58	5,419.49	9,559.08	9,525.00	34.08	280.467		
1,800.00	1,795.62	1,769.62	1,769.62	6.28	29.91	98.50	-7,866.58	5,419.49	9,561.94	9,525.75	36.19	264.226		
1,900.00	1,893.06	1,867.06	1,867.06	6.69	31.61	98.56	-7,866.58	5,419.49	9,565.37	9,527.06	38.30	249.731		
2,000.00	1,989.64	1,963.64	1,963.64	7.13	33.29	98.63	-7,866.58	5,419.49	9,569.37	9,528.94	40.43	236.698		
2,100.00	2,085.27	2,059.27	2,059.27	7.61	34.96	98.70	-7,866.58	5,419.49	9,573.97	9,531.40	42.57	224.903		
2,200.00	2,179.82	2,153.82	2,153.82	8.12	36.61	98.78	-7,866.58	5,419.49	9,579.20	9,534.47	44.73	214.167		
2,300.00	2,273.17	2,247.17	2,247.17	8.67	38.24	98.87	-7,866.58	5,419.49	9,585.08	9,538.17	46.91	204.345		
2,400.00	2,365.21	2,339.21	2,339.21	9.27	39.85	98.95	-7,866.58	5,419.49	9,591.64	9,542.53	49.11	195.318		
2,500.00	2,455.84	2,429.84	2,429.84	9.92	41.43	99.03	-7,866.58	5,419.49	9,598.91	9,547.57	51.33	186.990		
2,580.62	2,527.80	2,501.80	2,501.80	10.49	42.69	99.10	-7,866.58	5,419.49	9,605.30	9,552.16	53.15	180.733		
2,600.00	2,544.97	2,518.97	2,518.97	10.63	42.99	99.14	-7,866.58	5,419.49	9,606.91	9,553.32	53.58	179.286		
2,700.00	2,633.58	2,607.58	2,607.58	11.37	44.53	99.39	-7,866.58	5,419.49	9,615.30	9,559.44	55.86	172.131		
2,800.00	2,722.19	2,703.81	2,696.19	12.13	46.21	99.63	-7,866.58	5,419.49	9,623.90	9,565.61	58.29	165.103		
2,900.00	2,810.80	2,784.80	2,784.80	12.91	47.63	99.87	-7,866.58	5,419.49	9,632.72	9,572.25	60.47	159.296		
3,000.00	2,899.41	2,873.41	2,873.41	13.71	49.17	100.11	-7,866.58	5,419.49	9,641.76	9,578.96	62.80	153.536		
3,100.00	2,988.02	2,962.02	2,962.02	14.52	50.72	100.35	-7,866.58	5,419.49	9,651.01	9,585.88	65.14	148.167		
3,200.00	3,076.63	3,050.63	3,050.63	15.34	52.27	100.59	-7,866.58	5,419.49	9,660.48	9,592.99	67.48	143.153		
3,300.00	3,165.24	3,139.24	3,139.24	16.16	53.81	100.83	-7,866.58	5,419.49	9,670.15	9,600.31	69.84	138.465		
3,400.00	3,253.85	3,227.85	3,227.85	17.00	55.36	101.07	-7,866.58	5,419.49	9,680.04	9,607.84	72.20	134.074		
3,500.00	3,342.46	3,316.46	3,316.46	17.84	56.91	101.31	-7,866.58	5,419.49	9,690.14	9,615.58	74.57	129.955		
3,600.00	3,431.07	3,405.07	3,405.07	18.69	58.45	101.55	-7,866.58	5,419.49	9,700.46	9,623.52	76.94	126.085		
3,700.00	3,519.68	3,506.32	3,493.68	19.55	60.22	101.79	-7,866.58	5,419.49	9,710.98	9,631.45	79.53	122.105		
3,800.00	3,608.29	3,582.29	3,582.29	20.40	61.55	102.03	-7,866.58	5,419.49	9,721.71	9,640.02	81.69	119.014		
3,900.00	3,696.90	3,670.90	3,670.90	21.26	63.09	102.27	-7,866.58	5,419.49	9,732.65	9,648.59	84.06	115.777		
4,000.00	3,785.51	3,759.51	3,759.51	22.13	64.64	102.50	-7,866.58	5,419.49	9,743.80	9,657.36	86.44	112.719		
4,100.00	3,874.12	3,848.12	3,848.12	23.00	66.18	102.74	-7,866.58	5,419.49	9,755.16	9,666.33	88.82	109.825		
4,200.00	3,962.73	3,936.73	3,936.73	23.87	67.73	102.98	-7,866.58	5,419.49	9,766.72	9,675.51	91.21	107.083		
4,300.00	4,051.34	4,025.34	4,025.34	24.74	69.28	103.21	-7,866.58	5,419.49	9,778.49	9,684.90	93.59	104.482		
4,400.00	4,139.95	4,113.95	4,113.95	25.62	70.82	103.45	-7,866.58	5,419.49	9,790.46	9,694.49	95.97	102.013		
4,500.00	4,228.56	4,202.56	4,202.56	26.49	72.37	103.68	-7,866.58	5,419.49	9,802.64	9,704.29	98.36	99.665		
4,600.00	4,317.17	4,308.83	4,291.17	27.37	74.23	103.92	-7,866.58	5,419.49	9,815.02	9,713.98	101.05	97.133		
4,700.00	4,405.78	4,379.78	4,379.78	28.25	75.46	104.15	-7,866.58	5,419.49	9,827.61	9,724.49	103.12	95.301		
4,800.00	4,494.39	4,468.39	4,468.39	29.13	77.01	104.39	-7,866.58	5,419.49	9,840.40	9,734.89	105.50	93.271		
4,900.00	4,583.00	4,557.00	4,557.00	30.02	78.56	104.62	-7,866.58	5,419.49	9,853.39	9,745.50	107.89	91.332		
5,000.00	4,671.61	4,645.61	4,645.61	30.90	80.10	104.85	-7,866.58	5,419.49	9,866.58	9,756.31	110.27	89.480		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,734.22	4,734.22	31.79	81.65	105.09	-7,866.58	5,419.49	9,879.97	9,767.32	112.65	87.708		
5,200.00	4,848.83	4,822.83	4,822.83	32.67	83.20	105.32	-7,866.58	5,419.49	9,893.56	9,778.53	115.02	86.013		
5,300.00	4,937.44	4,911.44	4,911.44	33.56	84.74	105.55	-7,866.58	5,419.49	9,907.34	9,789.94	117.40	84.388		
5,400.00	5,026.05	5,000.05	5,000.05	34.45	86.29	105.78	-7,866.58	5,419.49	9,921.33	9,801.55	119.78	82.831		
5,500.00	5,114.66	5,088.66	5,088.66	35.34	87.84	106.01	-7,866.58	5,419.49	9,935.51	9,813.36	122.15	81.336		
5,600.00	5,203.27	5,177.27	5,177.27	36.23	89.38	106.24	-7,866.58	5,419.49	9,949.89	9,825.36	124.53	79.901		
5,700.00	5,291.88	5,265.88	5,265.88	37.12	90.93	106.47	-7,866.58	5,419.49	9,964.46	9,837.56	126.90	78.522		
5,800.00	5,380.50	5,354.50	5,354.50	38.01	92.48	106.70	-7,866.58	5,419.49	9,979.22	9,849.95	129.27	77.197		
5,900.00	5,469.11	5,443.11	5,443.11	38.90	94.02	106.93	-7,866.58	5,419.49	9,994.18	9,862.54	131.64	75.921		
8,400.00	7,638.06	7,612.06	7,612.06	56.28	131.88	-10.28	-7,866.58	5,419.49	9,999.85	9,813.50	186.36	53.660		
8,450.00	7,662.52	7,636.52	7,636.52	56.09	132.30	-16.79	-7,866.58	5,419.49	9,956.55	9,769.82	186.73	53.321		
8,500.00	7,683.41	7,657.41	7,657.41	55.88	132.67	-24.83	-7,866.58	5,419.49	9,911.69	9,724.68	187.02	52.999		
8,550.00	7,700.59	7,674.59	7,674.59	55.64	132.97	-35.02	-7,866.58	5,419.49	9,865.62	9,678.40	187.22	52.696		
8,600.00	7,713.91	7,687.91	7,687.91	55.39	133.20	-47.79	-7,866.58	5,419.49	9,818.70	9,631.36	187.34	52.412		
8,650.00	7,723.29	7,702.71	7,697.29	55.14	133.46	-62.77	-7,866.58	5,419.49	9,771.28	9,583.82	187.46	52.124		
8,700.00	7,728.64	7,702.64	7,702.64	54.87	133.46	-78.35	-7,866.58	5,419.49	9,723.74	9,536.43	187.31	51.911		
8,740.83	7,730.00	7,704.00	7,704.00	54.65	133.48	-90.00	-7,866.58	5,419.49	9,685.09	9,497.88	187.21	51.733		
8,800.00	7,730.00	7,704.00	7,704.00	54.33	133.48	-90.00	-7,866.58	5,419.49	9,629.30	9,442.28	187.02	51.487		
8,900.00	7,730.00	7,704.00	7,704.00	53.82	133.48	-90.00	-7,866.58	5,419.49	9,535.12	9,348.42	186.70	51.071		
9,000.00	7,730.00	7,704.00	7,704.00	53.33	133.48	-90.00	-7,866.58	5,419.49	9,441.06	9,254.68	186.38	50.655		
9,100.00	7,730.00	7,704.00	7,704.00	52.87	133.48	-90.00	-7,866.58	5,419.49	9,347.12	9,161.06	186.06	50.238		
9,200.00	7,730.00	7,704.00	7,704.00	52.44	133.48	-90.00	-7,866.58	5,419.49	9,253.30	9,067.57	185.73	49.820		
9,300.00	7,730.00	7,704.00	7,704.00	52.03	133.48	-90.00	-7,866.58	5,419.49	9,159.62	8,974.21	185.41	49.402		
9,400.00	7,730.00	7,704.00	7,704.00	51.65	133.48	-90.00	-7,866.58	5,419.49	9,066.07	8,880.99	185.08	48.983		
9,500.00	7,730.00	7,704.00	7,704.00	51.29	133.48	-90.00	-7,866.58	5,419.49	8,972.66	8,787.90	184.76	48.564		
9,600.00	7,730.00	7,704.00	7,704.00	50.95	133.48	-90.00	-7,866.58	5,419.49	8,879.40	8,694.96	184.43	48.144		
9,700.00	7,730.00	7,704.00	7,704.00	50.64	133.48	-90.00	-7,866.58	5,419.49	8,786.28	8,602.17	184.11	47.723		
9,800.00	7,730.00	7,704.00	7,704.00	50.35	133.48	-90.00	-7,866.58	5,419.49	8,693.32	8,509.53	183.79	47.301		
9,900.00	7,730.00	7,704.00	7,704.00	50.09	133.48	-90.00	-7,866.58	5,419.49	8,600.51	8,417.04	183.47	46.878		
10,000.00	7,730.00	7,704.00	7,704.00	49.86	133.48	-90.00	-7,866.58	5,419.49	8,507.87	8,324.72	183.14	46.454		
10,100.00	7,730.00	7,704.00	7,704.00	49.65	133.48	-90.00	-7,866.58	5,419.49	8,415.39	8,232.56	182.83	46.029		
10,200.00	7,730.00	7,704.00	7,704.00	49.48	133.48	-90.00	-7,866.58	5,419.49	8,323.09	8,140.58	182.51	45.603		
10,300.00	7,730.00	7,704.00	7,704.00	49.35	133.48	-90.00	-7,866.58	5,419.49	8,230.97	8,048.77	182.20	45.175		
10,400.00	7,730.00	7,704.00	7,704.00	49.27	133.48	-90.00	-7,866.58	5,419.49	8,139.04	7,957.14	181.89	44.746		
10,500.00	7,730.00	7,704.00	7,704.00	49.26	133.48	-90.00	-7,866.58	5,419.49	8,047.29	7,865.70	181.59	44.315		
10,600.00	7,730.00	7,704.00	7,704.00	49.32	133.48	-90.00	-7,866.58	5,419.49	7,955.75	7,774.45	181.30	43.882		
10,700.00	7,730.00	7,704.00	7,704.00	49.51	133.48	-90.00	-7,866.58	5,419.49	7,864.41	7,683.40	181.01	43.448		
10,800.00	7,730.00	7,704.00	7,704.00	49.83	133.48	-90.00	-7,866.58	5,419.49	7,773.29	7,592.56	180.73	43.011		
10,900.00	7,730.00	7,704.00	7,704.00	50.31	133.48	-90.00	-7,866.58	5,419.49	7,682.38	7,501.93	180.46	42.572		
11,000.00	7,730.00	7,704.00	7,704.00	50.96	133.48	-90.00	-7,866.58	5,419.49	7,591.71	7,411.51	180.20	42.130		
11,100.00	7,730.00	7,704.00	7,704.00	51.75	133.48	-90.00	-7,866.58	5,419.49	7,501.27	7,321.32	179.95	41.686		
11,200.00	7,730.00	7,704.00	7,704.00	52.66	133.48	-90.00	-7,866.58	5,419.49	7,411.08	7,231.37	179.71	41.239		
11,300.00	7,730.00	7,704.00	7,704.00	53.67	133.48	-90.00	-7,866.58	5,419.49	7,321.14	7,141.65	179.49	40.789		
11,400.00	7,730.00	7,704.00	7,704.00	54.75	133.48	-90.00	-7,866.58	5,419.49	7,231.47	7,052.19	179.28	40.336		
11,500.00	7,730.00	7,704.00	7,704.00	55.89	133.48	-90.00	-7,866.58	5,419.49	7,142.07	6,962.98	179.09	39.879		
11,600.00	7,730.00	7,704.00	7,704.00	57.07	133.48	-90.00	-7,866.58	5,419.49	7,052.96	6,874.03	178.92	39.419		
11,700.00	7,730.00	7,704.00	7,704.00	58.30	133.48	-90.00	-7,866.58	5,419.49	6,964.14	6,785.36	178.78	38.954		
11,800.00	7,730.00	7,704.00	7,704.00	59.55	133.48	-90.00	-7,866.58	5,419.49	6,875.63	6,696.97	178.65	38.486		
11,900.00	7,730.00	7,704.00	7,704.00	60.84	133.48	-90.00	-7,866.58	5,419.49	6,787.43	6,608.88	178.56	38.013		
12,000.00	7,730.00	7,704.00	7,704.00	62.15	133.48	-90.00	-7,866.58	5,419.49	6,699.57	6,521.08	178.49	37.535		
12,100.00	7,730.00	7,704.00	7,704.00	63.49	133.48	-90.00	-7,866.58	5,419.49	6,612.06	6,433.61	178.45	37.052		
12,200.00	7,730.00	7,704.00	7,704.00	64.85	133.48	-90.00	-7,866.58	5,419.49	6,524.90	6,346.45	178.45	36.565		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
12,300.00	7,730.00	7,704.00	7,704.00	66.22	133.48	-90.00	-7,866.58	5,419.49	6,438.12	6,259.64	178.48	36.072		
12,400.00	7,730.00	7,704.00	7,704.00	67.62	133.48	-90.00	-7,866.58	5,419.49	6,351.72	6,173.17	178.55	35.573		
12,500.00	7,730.00	7,704.00	7,704.00	69.03	133.48	-90.00	-7,866.58	5,419.49	6,265.73	6,087.06	178.67	35.069		
12,600.00	7,730.00	7,704.00	7,704.00	70.45	133.48	-90.00	-7,866.58	5,419.49	6,180.16	6,001.34	178.83	34.559		
12,700.00	7,730.00	7,704.00	7,704.00	71.90	133.48	-90.00	-7,866.58	5,419.49	6,095.04	5,916.00	179.04	34.043		
12,800.00	7,730.00	7,704.00	7,704.00	73.35	133.48	-90.00	-7,866.58	5,419.49	6,010.36	5,831.07	179.30	33.522		
12,900.00	7,730.00	7,704.00	7,704.00	74.81	133.48	-90.00	-7,866.58	5,419.49	5,926.17	5,746.56	179.61	32.994		
13,000.00	7,730.00	7,704.00	7,704.00	76.29	133.48	-90.00	-7,866.58	5,419.49	5,842.48	5,662.49	179.99	32.460		
13,100.00	7,730.00	7,704.00	7,704.00	77.78	133.48	-90.00	-7,866.58	5,419.49	5,759.30	5,578.88	180.42	31.921		
13,200.00	7,730.00	7,704.00	7,704.00	79.28	133.48	-90.00	-7,866.58	5,419.49	5,676.67	5,495.75	180.92	31.376		
13,300.00	7,730.00	7,704.00	7,704.00	80.79	133.48	-90.00	-7,866.58	5,419.49	5,594.60	5,413.11	181.49	30.826		
13,400.00	7,730.00	7,704.00	7,704.00	82.31	133.48	-90.00	-7,866.58	5,419.49	5,513.13	5,331.00	182.13	30.270		
13,500.00	7,730.00	7,704.00	7,704.00	83.84	133.48	-90.00	-7,866.58	5,419.49	5,432.28	5,249.43	182.85	29.710		
13,600.00	7,730.00	7,704.00	7,704.00	85.37	133.48	-90.00	-7,866.58	5,419.49	5,352.07	5,168.44	183.64	29.145		
13,700.00	7,730.00	7,704.00	7,704.00	86.92	133.48	-90.00	-7,866.58	5,419.49	5,272.54	5,088.04	184.51	28.576		
13,800.00	7,730.00	7,704.00	7,704.00	88.47	133.48	-90.00	-7,866.58	5,419.49	5,193.72	5,008.26	185.46	28.005		
13,900.00	7,730.00	7,704.00	7,704.00	90.03	133.48	-90.00	-7,866.58	5,419.49	5,115.64	4,929.14	186.50	27.430		
14,000.00	7,730.00	7,704.00	7,704.00	91.59	133.48	-90.00	-7,866.58	5,419.49	5,038.33	4,850.71	187.62	26.854		
14,100.00	7,730.00	7,704.00	7,704.00	93.16	133.48	-90.00	-7,866.58	5,419.49	4,961.83	4,773.00	188.83	26.276		
14,200.00	7,730.00	7,704.00	7,704.00	94.74	133.48	-90.00	-7,866.58	5,419.49	4,886.19	4,696.05	190.14	25.698		
14,300.00	7,730.00	7,704.00	7,704.00	96.33	133.48	-90.00	-7,866.58	5,419.49	4,811.43	4,619.90	191.53	25.121		
14,400.00	7,730.00	7,704.00	7,704.00	97.92	133.48	-90.00	-7,866.58	5,419.49	4,737.60	4,544.58	193.02	24.544		
14,500.00	7,730.00	7,704.00	7,704.00	99.51	133.48	-90.00	-7,866.58	5,419.49	4,664.75	4,470.14	194.61	23.970		
14,600.00	7,730.00	7,704.00	7,704.00	101.11	133.48	-90.00	-7,866.58	5,419.49	4,592.92	4,396.63	196.29	23.399		
14,700.00	7,730.00	7,704.00	7,704.00	102.72	133.48	-90.00	-7,866.58	5,419.49	4,522.16	4,324.10	198.06	22.832		
14,800.00	7,730.00	7,704.00	7,704.00	104.33	133.48	-90.00	-7,866.58	5,419.49	4,452.52	4,252.58	199.94	22.269		
14,900.00	7,730.00	7,704.00	7,704.00	105.94	133.48	-90.00	-7,866.58	5,419.49	4,384.06	4,182.15	201.91	21.713		
15,000.00	7,730.00	7,704.00	7,704.00	107.56	133.48	-90.00	-7,866.58	5,419.49	4,316.83	4,112.85	203.98	21.163		
15,100.00	7,730.00	7,704.00	7,704.00	109.18	133.48	-90.00	-7,866.58	5,419.49	4,250.89	4,044.74	206.14	20.621		
15,200.00	7,730.00	7,704.00	7,704.00	110.81	133.48	-90.00	-7,866.58	5,419.49	4,186.29	3,977.89	208.40	20.087		
15,300.00	7,730.00	7,704.00	7,704.00	112.44	133.48	-90.00	-7,866.58	5,419.49	4,123.12	3,912.36	210.76	19.563		
15,400.00	7,730.00	7,704.00	7,704.00	114.08	133.48	-90.00	-7,866.58	5,419.49	4,061.42	3,848.21	213.21	19.049		
15,500.00	7,730.00	7,704.00	7,704.00	115.72	133.48	-90.00	-7,866.58	5,419.49	4,001.27	3,785.52	215.74	18.546		
15,600.00	7,730.00	7,704.00	7,704.00	117.36	133.48	-90.00	-7,866.58	5,419.49	3,942.73	3,724.37	218.37	18.055		
15,700.00	7,730.00	7,704.00	7,704.00	119.00	133.48	-90.00	-7,866.58	5,419.49	3,885.90	3,664.82	221.08	17.577		
15,800.00	7,730.00	7,704.00	7,704.00	120.65	133.48	-90.00	-7,866.58	5,419.49	3,830.82	3,606.95	223.87	17.112		
15,900.00	7,730.00	7,704.00	7,704.00	122.30	133.48	-90.00	-7,866.58	5,419.49	3,777.60	3,550.86	226.74	16.660		
16,000.00	7,730.00	7,704.00	7,704.00	123.96	133.48	-90.00	-7,866.58	5,419.49	3,726.29	3,496.61	229.68	16.224		
16,100.00	7,730.00	7,704.00	7,704.00	125.61	133.48	-90.00	-7,866.58	5,419.49	3,676.99	3,444.31	232.69	15.802		
16,200.00	7,730.00	7,704.00	7,704.00	127.27	133.48	-90.00	-7,866.58	5,419.49	3,629.78	3,394.03	235.75	15.397		
16,300.00	7,730.00	7,704.00	7,704.00	128.94	133.48	-90.00	-7,866.58	5,419.49	3,584.74	3,345.87	238.87	15.007		
16,400.00	7,730.00	7,704.00	7,704.00	130.60	133.48	-90.00	-7,866.58	5,419.49	3,541.94	3,299.91	242.03	14.634		
16,500.00	7,730.00	7,704.00	7,704.00	132.27	133.48	-90.00	-7,866.58	5,419.49	3,501.48	3,256.26	245.23	14.279		
16,600.00	7,730.00	7,704.00	7,704.00	133.94	133.48	-90.00	-7,866.58	5,419.49	3,463.44	3,214.99	248.45	13.940		
16,700.00	7,730.00	7,704.00	7,704.00	135.61	133.48	-90.00	-7,866.58	5,419.49	3,427.89	3,176.20	251.69	13.620		
16,800.00	7,730.00	7,704.00	7,704.00	137.28	133.48	-90.00	-7,866.58	5,419.49	3,394.92	3,139.99	254.93	13.317		
16,900.00	7,730.00	7,704.00	7,704.00	138.96	133.48	-90.00	-7,866.58	5,419.49	3,364.59	3,106.43	258.16	13.033		
17,000.00	7,730.00	7,704.00	7,704.00	140.64	133.48	-90.00	-7,866.58	5,419.49	3,336.99	3,075.61	261.38	12.767		
17,100.00	7,730.00	7,704.00	7,704.00	142.32	133.48	-90.00	-7,866.58	5,419.49	3,312.18	3,047.61	264.56	12.519		
17,200.00	7,730.00	7,704.00	7,704.00	144.00	133.48	-90.00	-7,866.58	5,419.49	3,290.22	3,022.52	267.70	12.291		
17,300.00	7,730.00	7,704.00	7,704.00	145.69	133.48	-90.00	-7,866.58	5,419.49	3,271.17	3,000.39	270.79	12.080		
17,400.00	7,730.00	7,704.00	7,704.00	147.37	133.48	-90.00	-7,866.58	5,419.49	3,255.09	2,981.29	273.80	11.888		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
17,500.00	7,730.00	7,704.00	7,704.00	149.06	133.48	-90.00	-7,866.58	5,419.49	3,242.01	2,965.27	276.73	11.715	
17,600.00	7,730.00	7,704.00	7,704.00	150.75	133.48	-90.00	-7,866.58	5,419.49	3,231.97	2,952.40	279.57	11.560	
17,700.00	7,730.00	7,704.00	7,704.00	152.44	133.48	-90.00	-7,866.58	5,419.49	3,225.01	2,942.70	282.31	11.424	
17,800.00	7,730.00	7,704.00	7,704.00	154.13	133.48	-90.00	-7,866.58	5,419.49	3,221.13	2,936.20	284.93	11.305	
17,874.88	7,730.00	7,704.00	7,704.00	155.40	133.48	-90.00	-7,866.58	5,419.49	3,220.26	2,933.45	286.81	11.228 CC	
17,900.00	7,730.00	7,704.00	7,704.00	155.83	133.48	-90.00	-7,866.58	5,419.49	3,220.36	2,932.94	287.42	11.204	
18,000.00	7,730.00	7,704.00	7,704.00	157.52	133.48	-90.00	-7,866.58	5,419.49	3,222.69	2,932.90	289.79	11.121 ES	
18,100.00	7,730.00	7,704.00	7,704.00	159.22	133.48	-90.00	-7,866.58	5,419.49	3,228.12	2,936.11	292.01	11.055	
18,200.00	7,730.00	7,704.00	7,704.00	160.92	133.48	-90.00	-7,866.58	5,419.49	3,236.63	2,942.54	294.09	11.006	
18,300.00	7,730.00	7,704.00	7,704.00	162.62	133.48	-90.00	-7,866.58	5,419.49	3,248.20	2,952.18	296.02	10.973	
18,400.00	7,730.00	7,704.00	7,704.00	164.32	133.48	-90.00	-7,866.58	5,419.49	3,262.80	2,965.00	297.80	10.956	
18,426.22	7,730.00	7,704.00	7,704.00	164.76	133.48	-90.00	-7,866.58	5,419.49	3,267.12	2,968.88	298.24	10.955 SF	

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	148.54	-5,431.68	3,322.68	6,367.41					
100.00	100.00	77.00	77.00	0.13	0.58	148.54	-5,431.68	3,322.68	6,367.37	6,366.65	0.72	8,855.546		
200.00	200.00	177.00	177.00	0.49	2.10	148.54	-5,431.68	3,322.68	6,367.37	6,364.77	2.60	2,452.740		
300.00	300.00	277.00	277.00	0.85	3.85	148.54	-5,431.68	3,322.68	6,367.37	6,362.67	4.70	1,354.810		
400.00	400.00	377.00	377.00	1.21	5.59	148.54	-5,431.68	3,322.68	6,367.37	6,360.56	6.80	935.879		
500.00	500.00	477.00	477.00	1.57	7.34	148.54	-5,431.68	3,322.68	6,367.37	6,358.46	8.91	714.838		
600.00	600.00	577.00	577.00	1.93	9.08	148.54	-5,431.68	3,322.68	6,367.37	6,356.35	11.01	578.261		
700.00	700.00	677.00	677.00	2.29	10.83	148.54	-5,431.68	3,322.68	6,367.37	6,354.25	13.12	485.502		
800.00	800.00	777.00	777.00	2.64	12.58	148.54	-5,431.68	3,322.68	6,367.37	6,352.15	15.22	418.387		
900.00	900.00	877.00	877.00	3.00	14.32	148.54	-5,431.68	3,322.68	6,367.37	6,350.04	17.32	367.575		
1,000.00	1,000.00	977.00	977.00	3.36	16.07	148.54	-5,431.68	3,322.68	6,367.37	6,347.94	19.43	327.768		
1,100.00	1,100.00	1,077.00	1,077.00	3.72	17.81	148.54	-5,431.68	3,322.68	6,367.37	6,345.84	21.53	295.741		
1,200.00	1,200.00	1,177.00	1,177.00	4.08	19.56	148.54	-5,431.68	3,322.68	6,367.37	6,343.73	23.63	269.415		
1,300.00	1,299.98	1,276.98	1,276.98	4.43	21.30	101.43	-5,431.68	3,322.68	6,367.71	6,341.98	25.73	247.437		
1,400.00	1,399.84	1,376.84	1,376.84	4.79	23.04	101.46	-5,431.68	3,322.68	6,368.75	6,340.92	27.83	228.828		
1,500.00	1,499.45	1,476.45	1,476.45	5.15	24.78	101.50	-5,431.68	3,322.68	6,370.49	6,340.56	29.93	212.854		
1,600.00	1,598.70	1,575.70	1,575.70	5.51	26.52	101.56	-5,431.68	3,322.68	6,372.95	6,340.92	32.03	198.990		
1,700.00	1,697.47	1,674.47	1,674.47	5.89	28.24	101.63	-5,431.68	3,322.68	6,376.13	6,342.00	34.13	186.837		
1,800.00	1,795.62	1,772.62	1,772.62	6.28	29.95	101.72	-5,431.68	3,322.68	6,380.06	6,343.83	36.23	176.089		
1,900.00	1,893.06	1,870.06	1,870.06	6.69	31.65	101.82	-5,431.68	3,322.68	6,384.77	6,346.42	38.35	166.506		
2,000.00	1,989.64	1,966.64	1,966.64	7.13	33.34	101.93	-5,431.68	3,322.68	6,390.27	6,349.80	40.47	157.901		
2,100.00	2,085.27	2,062.27	2,062.27	7.61	35.01	102.05	-5,431.68	3,322.68	6,396.61	6,354.01	42.61	150.125		
2,200.00	2,179.82	2,156.82	2,156.82	8.12	36.66	102.18	-5,431.68	3,322.68	6,403.83	6,359.06	44.76	143.058		
2,300.00	2,273.17	2,250.17	2,250.17	8.67	38.29	102.32	-5,431.68	3,322.68	6,411.94	6,365.01	46.94	136.604		
2,400.00	2,365.21	2,342.21	2,342.21	9.27	39.89	102.45	-5,431.68	3,322.68	6,421.01	6,371.88	49.13	130.684		
2,500.00	2,455.84	2,432.84	2,432.84	9.92	41.47	102.59	-5,431.68	3,322.68	6,431.07	6,379.72	51.35	125.236		
2,580.62	2,527.80	2,504.80	2,504.80	10.49	42.73	102.70	-5,431.68	3,322.68	6,439.94	6,386.78	53.16	121.150		
2,600.00	2,544.97	2,521.97	2,521.97	10.63	43.03	102.77	-5,431.68	3,322.68	6,442.16	6,388.57	53.59	120.206		
2,700.00	2,633.58	2,610.58	2,610.58	11.37	44.58	103.13	-5,431.68	3,322.68	6,453.80	6,397.95	55.86	115.542		
2,800.00	2,722.19	2,700.81	2,699.19	12.13	46.15	103.49	-5,431.68	3,322.68	6,465.76	6,407.59	58.17	111.155		
2,900.00	2,810.80	2,787.80	2,787.80	12.91	47.67	103.84	-5,431.68	3,322.68	6,478.02	6,417.58	60.44	107.183		
3,000.00	2,899.41	2,876.41	2,876.41	13.71	49.22	104.20	-5,431.68	3,322.68	6,490.59	6,427.84	62.75	103.436		
3,100.00	2,988.02	2,965.02	2,965.02	14.52	50.76	104.55	-5,431.68	3,322.68	6,503.47	6,438.40	65.07	99.945		
3,200.00	3,076.63	3,053.63	3,053.63	15.34	52.31	104.90	-5,431.68	3,322.68	6,516.65	6,449.25	67.40	96.689		
3,300.00	3,165.24	3,142.24	3,142.24	16.16	53.86	105.25	-5,431.68	3,322.68	6,530.13	6,460.40	69.73	93.646		
3,400.00	3,253.85	3,230.85	3,230.85	17.00	55.40	105.61	-5,431.68	3,322.68	6,543.91	6,471.84	72.07	90.798		
3,500.00	3,342.46	3,319.46	3,319.46	17.84	56.95	105.95	-5,431.68	3,322.68	6,558.00	6,483.58	74.41	88.130		
3,600.00	3,431.07	3,408.07	3,408.07	18.69	58.50	106.30	-5,431.68	3,322.68	6,572.38	6,495.62	76.76	85.625		
3,700.00	3,519.68	3,503.32	3,496.68	19.55	60.16	106.65	-5,431.68	3,322.68	6,587.05	6,507.83	79.22	83.149		
3,800.00	3,608.29	3,585.29	3,585.29	20.40	61.59	106.99	-5,431.68	3,322.68	6,602.02	6,520.56	81.45	81.054		
3,900.00	3,696.90	3,673.90	3,673.90	21.26	63.14	107.34	-5,431.68	3,322.68	6,617.27	6,533.47	83.80	78.965		
4,000.00	3,785.51	3,762.51	3,762.51	22.13	64.68	107.68	-5,431.68	3,322.68	6,632.82	6,546.67	86.15	76.993		
4,100.00	3,874.12	3,851.12	3,851.12	23.00	66.23	108.02	-5,431.68	3,322.68	6,648.65	6,560.16	88.50	75.129		
4,200.00	3,962.73	3,939.73	3,939.73	23.87	67.78	108.36	-5,431.68	3,322.68	6,664.77	6,573.93	90.84	73.366		
4,300.00	4,051.34	4,028.34	4,028.34	24.74	69.32	108.70	-5,431.68	3,322.68	6,681.17	6,587.98	93.19	71.695		
4,400.00	4,139.95	4,116.95	4,116.95	25.62	70.87	109.04	-5,431.68	3,322.68	6,697.85	6,602.32	95.53	70.110		
4,500.00	4,228.56	4,205.56	4,205.56	26.49	72.41	109.38	-5,431.68	3,322.68	6,714.81	6,616.93	97.88	68.605		
4,600.00	4,317.17	4,305.83	4,294.17	27.37	74.16	109.71	-5,431.68	3,322.68	6,732.05	6,631.63	100.42	67.038		
4,700.00	4,405.78	4,382.78	4,382.78	28.25	75.51	110.04	-5,431.68	3,322.68	6,749.56	6,647.00	102.56	65.812		
4,800.00	4,494.39	4,471.39	4,471.39	29.13	77.05	110.38	-5,431.68	3,322.68	6,767.34	6,662.45	104.89	64.516		
4,900.00	4,583.00	4,560.00	4,560.00	30.02	78.60	110.71	-5,431.68	3,322.68	6,785.39	6,678.16	107.23	63.279		
5,000.00	4,671.61	4,648.61	4,648.61	30.90	80.15	111.04	-5,431.68	3,322.68	6,803.71	6,694.15	109.56	62.099		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,737.22	4,737.22	31.79	81.69	111.36	-5,431.68	3,322.68	6,822.30	6,710.41	111.89	60.972		
5,200.00	4,848.83	4,825.83	4,825.83	32.67	83.24	111.69	-5,431.68	3,322.68	6,841.15	6,726.93	114.22	59.895		
5,300.00	4,937.44	4,914.44	4,914.44	33.56	84.79	112.01	-5,431.68	3,322.68	6,860.26	6,743.72	116.54	58.865		
5,400.00	5,026.05	5,003.05	5,003.05	34.45	86.33	112.34	-5,431.68	3,322.68	6,879.63	6,760.76	118.86	57.878		
5,500.00	5,114.66	5,108.34	5,091.66	35.34	88.17	112.66	-5,431.68	3,322.68	6,899.26	6,777.78	121.47	56.796		
5,600.00	5,203.27	5,180.27	5,180.27	36.23	89.43	112.98	-5,431.68	3,322.68	6,919.14	6,795.64	123.50	56.027		
5,700.00	5,291.88	5,268.88	5,268.88	37.12	90.97	113.30	-5,431.68	3,322.68	6,939.27	6,813.46	125.81	55.157		
5,800.00	5,380.50	5,357.50	5,357.50	38.01	92.52	113.62	-5,431.68	3,322.68	6,959.66	6,831.54	128.12	54.322		
5,900.00	5,469.11	5,446.11	5,446.11	38.90	94.07	113.93	-5,431.68	3,322.68	6,980.29	6,849.86	130.42	53.520		
6,000.00	5,557.72	5,534.72	5,534.72	39.79	95.61	114.25	-5,431.68	3,322.68	7,001.17	6,868.44	132.73	52.749		
6,100.00	5,646.33	5,623.33	5,623.33	40.68	97.16	114.56	-5,431.68	3,322.68	7,022.29	6,887.26	135.03	52.007		
6,200.00	5,734.94	5,711.94	5,711.94	41.58	98.71	114.87	-5,431.68	3,322.68	7,043.66	6,906.33	137.32	51.293		
6,300.00	5,823.55	5,800.55	5,800.55	42.47	100.25	115.18	-5,431.68	3,322.68	7,065.26	6,925.65	139.61	50.606		
6,400.00	5,912.16	5,889.16	5,889.16	43.36	101.80	115.49	-5,431.68	3,322.68	7,087.10	6,945.20	141.90	49.943		
6,500.00	6,000.77	5,977.77	5,977.77	44.26	103.35	115.79	-5,431.68	3,322.68	7,109.18	6,964.99	144.19	49.305		
6,600.00	6,089.38	6,066.38	6,066.38	45.15	104.89	116.10	-5,431.68	3,322.68	7,131.49	6,985.02	146.47	48.689		
6,700.00	6,177.99	6,154.99	6,154.99	46.05	106.44	116.40	-5,431.68	3,322.68	7,154.03	7,005.28	148.75	48.095		
6,800.00	6,266.60	6,243.60	6,243.60	46.94	107.99	116.70	-5,431.68	3,322.68	7,176.79	7,025.77	151.02	47.521		
6,900.00	6,355.21	6,332.21	6,332.21	47.84	109.53	117.00	-5,431.68	3,322.68	7,199.79	7,046.49	153.30	46.967		
7,000.00	6,443.82	6,420.82	6,420.82	48.74	111.08	117.30	-5,431.68	3,322.68	7,223.01	7,067.44	155.56	46.431		
7,100.00	6,532.43	6,509.43	6,509.43	49.63	112.62	117.60	-5,431.68	3,322.68	7,246.45	7,088.62	157.83	45.914		
7,200.00	6,621.04	6,601.96	6,598.04	50.53	114.24	117.89	-5,431.68	3,322.68	7,270.11	7,109.95	160.16	45.394		
7,300.00	6,709.65	6,686.65	6,686.65	51.42	115.72	118.19	-5,431.68	3,322.68	7,293.99	7,131.64	162.35	44.929		
7,400.00	6,798.26	6,775.26	6,775.26	52.32	117.26	118.48	-5,431.68	3,322.68	7,318.08	7,153.48	164.60	44.460		
7,500.00	6,886.87	6,863.87	6,863.87	53.22	118.81	118.77	-5,431.68	3,322.68	7,342.39	7,175.54	166.85	44.006		
7,600.00	6,975.48	6,952.48	6,952.48	54.12	120.36	119.06	-5,431.68	3,322.68	7,366.91	7,197.81	169.10	43.566		
7,656.30	7,025.36	7,002.36	7,002.36	54.62	121.23	119.22	-5,431.68	3,322.68	7,380.81	7,210.45	170.36	43.325		
7,700.00	7,064.54	7,041.54	7,041.54	55.00	121.91	112.37	-5,431.68	3,322.68	7,390.04	7,218.70	171.34	43.130		
7,750.00	7,110.29	7,087.29	7,087.29	55.40	122.71	102.58	-5,431.68	3,322.68	7,396.69	7,224.21	172.48	42.884		
7,800.00	7,156.67	7,133.67	7,133.67	55.75	123.52	90.86	-5,431.68	3,322.68	7,399.11	7,225.49	173.61	42.619		
7,850.00	7,203.34	7,180.34	7,180.34	56.05	124.33	78.00	-5,431.68	3,322.68	7,397.27	7,222.54	174.73	42.335		
7,900.00	7,249.95	7,226.95	7,226.95	56.30	125.15	65.32	-5,431.68	3,322.68	7,391.19	7,215.36	175.83	42.037		
7,950.00	7,296.14	7,273.14	7,273.14	56.50	125.95	54.00	-5,431.68	3,322.68	7,380.90	7,204.02	176.89	41.726		
8,000.00	7,341.56	7,318.56	7,318.56	56.64	126.75	44.56	-5,431.68	3,322.68	7,366.49	7,188.58	177.91	41.406		
8,050.00	7,385.86	7,362.86	7,362.86	56.74	127.52	36.94	-5,431.68	3,322.68	7,348.04	7,169.15	178.88	41.077		
8,100.00	7,428.71	7,405.71	7,405.71	56.79	128.27	30.83	-5,431.68	3,322.68	7,325.70	7,145.89	179.81	40.742		
8,150.00	7,469.77	7,446.77	7,446.77	56.80	128.98	25.84	-5,431.68	3,322.68	7,299.62	7,118.95	180.67	40.402		
8,200.00	7,508.75	7,485.75	7,485.75	56.77	129.66	21.67	-5,431.68	3,322.68	7,270.01	7,088.53	181.48	40.060		
8,250.00	7,545.33	7,522.33	7,522.33	56.70	130.30	18.05	-5,431.68	3,322.68	7,237.07	7,054.86	182.22	39.717		
8,300.00	7,579.25	7,556.25	7,556.25	56.59	130.90	14.73	-5,431.68	3,322.68	7,201.06	7,018.18	182.88	39.375		
8,350.00	7,610.24	7,587.24	7,587.24	56.45	131.44	11.51	-5,431.68	3,322.68	7,162.25	6,978.77	183.48	39.036		
8,400.00	7,638.06	7,615.06	7,615.06	56.28	131.92	8.14	-5,431.68	3,322.68	7,120.92	6,936.92	184.00	38.701		
8,450.00	7,662.52	7,639.52	7,639.52	56.09	132.35	4.29	-5,431.68	3,322.68	7,077.39	6,892.95	184.44	38.373		
8,500.00	7,683.41	7,660.41	7,660.41	55.88	132.71	-0.54	-5,431.68	3,322.68	7,031.99	6,847.19	184.80	38.052		
8,550.00	7,700.59	7,677.59	7,677.59	55.64	133.01	-7.30	-5,431.68	3,322.68	6,985.06	6,799.98	185.08	37.742		
8,600.00	7,713.91	7,709.09	7,690.91	55.39	133.56	-17.85	-5,431.68	3,322.68	6,936.96	6,751.37	185.59	37.378		
8,650.00	7,723.29	7,700.29	7,700.29	55.14	133.41	-35.81	-5,431.68	3,322.68	6,888.06	6,702.67	185.39	37.155		
8,700.00	7,728.64	7,705.64	7,705.64	54.87	133.50	-64.48	-5,431.68	3,322.68	6,838.73	6,653.31	185.42	36.882		
8,740.83	7,730.00	7,707.00	7,707.00	54.65	133.53	-90.00	-5,431.68	3,322.68	6,798.40	6,613.01	185.39	36.671		
8,800.00	7,730.00	7,707.00	7,707.00	54.33	133.53	-90.00	-5,431.68	3,322.68	6,740.04	6,554.74	185.30	36.373		
8,900.00	7,730.00	7,707.00	7,707.00	53.82	133.53	-90.00	-5,431.68	3,322.68	6,641.44	6,456.28	185.16	35.869		
9,000.00	7,730.00	7,707.00	7,707.00	53.33	133.53	-90.00	-5,431.68	3,322.68	6,542.88	6,357.87	185.01	35.365		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	7,707.00	7,707.00	52.87	133.53	-90.00	-5,431.68	3,322.68	6,444.37	6,259.51	184.86	34.861		
9,200.00	7,730.00	7,707.00	7,707.00	52.44	133.53	-90.00	-5,431.68	3,322.68	6,345.90	6,161.19	184.71	34.357		
9,300.00	7,730.00	7,707.00	7,707.00	52.03	133.53	-90.00	-5,431.68	3,322.68	6,247.48	6,062.93	184.55	33.853		
9,400.00	7,730.00	7,707.00	7,707.00	51.65	133.53	-90.00	-5,431.68	3,322.68	6,149.11	5,964.72	184.39	33.348		
9,500.00	7,730.00	7,707.00	7,707.00	51.29	133.53	-90.00	-5,431.68	3,322.68	6,050.80	5,866.57	184.23	32.844		
9,600.00	7,730.00	7,707.00	7,707.00	50.95	133.53	-90.00	-5,431.68	3,322.68	5,952.54	5,768.48	184.06	32.340		
9,700.00	7,730.00	7,707.00	7,707.00	50.64	133.53	-90.00	-5,431.68	3,322.68	5,854.34	5,670.45	183.89	31.836		
9,800.00	7,730.00	7,707.00	7,707.00	50.35	133.53	-90.00	-5,431.68	3,322.68	5,756.20	5,572.48	183.72	31.332		
9,900.00	7,730.00	7,707.00	7,707.00	50.09	133.53	-90.00	-5,431.68	3,322.68	5,658.13	5,474.59	183.54	30.827		
10,000.00	7,730.00	7,707.00	7,707.00	49.86	133.53	-90.00	-5,431.68	3,322.68	5,560.12	5,376.76	183.36	30.323		
10,100.00	7,730.00	7,707.00	7,707.00	49.65	133.53	-90.00	-5,431.68	3,322.68	5,462.19	5,279.01	183.18	29.819		
10,200.00	7,730.00	7,707.00	7,707.00	49.48	133.53	-90.00	-5,431.68	3,322.68	5,364.34	5,181.35	182.99	29.314		
10,300.00	7,730.00	7,707.00	7,707.00	49.35	133.53	-90.00	-5,431.68	3,322.68	5,266.56	5,083.76	182.80	28.810		
10,400.00	7,730.00	7,707.00	7,707.00	49.27	133.53	-90.00	-5,431.68	3,322.68	5,168.88	4,986.27	182.61	28.306		
10,500.00	7,730.00	7,707.00	7,707.00	49.26	133.53	-90.00	-5,431.68	3,322.68	5,071.28	4,888.86	182.41	27.801		
10,600.00	7,730.00	7,707.00	7,707.00	49.32	133.53	-90.00	-5,431.68	3,322.68	4,973.77	4,791.56	182.21	27.297		
10,700.00	7,730.00	7,707.00	7,707.00	49.51	133.53	-90.00	-5,431.68	3,322.68	4,876.37	4,694.36	182.01	26.792		
10,800.00	7,730.00	7,707.00	7,707.00	49.83	133.53	-90.00	-5,431.68	3,322.68	4,779.07	4,597.28	181.80	26.288		
10,900.00	7,730.00	7,707.00	7,707.00	50.31	133.53	-90.00	-5,431.68	3,322.68	4,681.89	4,500.31	181.59	25.783		
11,000.00	7,730.00	7,707.00	7,707.00	50.96	133.53	-90.00	-5,431.68	3,322.68	4,584.83	4,403.46	181.37	25.278		
11,100.00	7,730.00	7,707.00	7,707.00	51.75	133.53	-90.00	-5,431.68	3,322.68	4,487.90	4,306.75	181.16	24.774		
11,200.00	7,730.00	7,707.00	7,707.00	52.66	133.53	-90.00	-5,431.68	3,322.68	4,391.11	4,210.17	180.94	24.269		
11,300.00	7,730.00	7,707.00	7,707.00	53.67	133.53	-90.00	-5,431.68	3,322.68	4,294.46	4,113.75	180.72	23.764		
11,400.00	7,730.00	7,707.00	7,707.00	54.75	133.53	-90.00	-5,431.68	3,322.68	4,197.97	4,017.48	180.49	23.258		
11,500.00	7,730.00	7,707.00	7,707.00	55.89	133.53	-90.00	-5,431.68	3,322.68	4,101.65	3,921.38	180.27	22.753		
11,600.00	7,730.00	7,707.00	7,707.00	57.07	133.53	-90.00	-5,431.68	3,322.68	4,005.51	3,825.46	180.05	22.247		
11,700.00	7,730.00	7,707.00	7,707.00	58.30	133.53	-90.00	-5,431.68	3,322.68	3,909.56	3,729.74	179.82	21.741		
11,800.00	7,730.00	7,707.00	7,707.00	59.55	133.53	-90.00	-5,431.68	3,322.68	3,813.82	3,634.22	179.60	21.235		
11,900.00	7,730.00	7,707.00	7,707.00	60.84	133.53	-90.00	-5,431.68	3,322.68	3,718.31	3,538.92	179.39	20.728		
12,000.00	7,730.00	7,707.00	7,707.00	62.15	133.53	-90.00	-5,431.68	3,322.68	3,623.04	3,443.86	179.18	20.221		
12,100.00	7,730.00	7,707.00	7,707.00	63.49	133.53	-90.00	-5,431.68	3,322.68	3,528.03	3,349.06	178.97	19.713		
12,200.00	7,730.00	7,707.00	7,707.00	64.85	133.53	-90.00	-5,431.68	3,322.68	3,433.30	3,254.52	178.78	19.204		
12,300.00	7,730.00	7,707.00	7,707.00	66.22	133.53	-90.00	-5,431.68	3,322.68	3,338.88	3,160.28	178.60	18.695		
12,400.00	7,730.00	7,707.00	7,707.00	67.62	133.53	-90.00	-5,431.68	3,322.68	3,244.79	3,066.36	178.44	18.185		
12,500.00	7,730.00	7,707.00	7,707.00	69.03	133.53	-90.00	-5,431.68	3,322.68	3,151.07	2,972.78	178.29	17.673		
12,600.00	7,730.00	7,707.00	7,707.00	70.45	133.53	-90.00	-5,431.68	3,322.68	3,057.75	2,879.57	178.18	17.161		
12,700.00	7,730.00	7,707.00	7,707.00	71.90	133.53	-90.00	-5,431.68	3,322.68	2,964.86	2,786.76	178.10	16.647		
12,800.00	7,730.00	7,707.00	7,707.00	73.35	133.53	-90.00	-5,431.68	3,322.68	2,872.45	2,694.39	178.06	16.132		
12,900.00	7,730.00	7,707.00	7,707.00	74.81	133.53	-90.00	-5,431.68	3,322.68	2,780.56	2,602.50	178.07	15.615		
13,000.00	7,730.00	7,707.00	7,707.00	76.29	133.53	-90.00	-5,431.68	3,322.68	2,689.26	2,511.12	178.14	15.096		
13,100.00	7,730.00	7,707.00	7,707.00	77.78	133.53	-90.00	-5,431.68	3,322.68	2,598.59	2,420.31	178.28	14.576		
13,200.00	7,730.00	7,707.00	7,707.00	79.28	133.53	-90.00	-5,431.68	3,322.68	2,508.64	2,330.12	178.51	14.053		
13,300.00	7,730.00	7,707.00	7,707.00	80.79	133.53	-90.00	-5,431.68	3,322.68	2,419.47	2,240.62	178.85	13.528		
13,400.00	7,730.00	7,707.00	7,707.00	82.31	133.53	-90.00	-5,431.68	3,322.68	2,331.18	2,151.87	179.31	13.001		
13,500.00	7,730.00	7,707.00	7,707.00	83.84	133.53	-90.00	-5,431.68	3,322.68	2,243.87	2,063.95	179.92	12.472		
13,600.00	7,730.00	7,707.00	7,707.00	85.37	133.53	-90.00	-5,431.68	3,322.68	2,157.67	1,976.97	180.70	11.941		
13,700.00	7,730.00	7,707.00	7,707.00	86.92	133.53	-90.00	-5,431.68	3,322.68	2,072.71	1,891.03	181.67	11.409		
13,800.00	7,730.00	7,707.00	7,707.00	88.47	133.53	-90.00	-5,431.68	3,322.68	1,989.14	1,806.26	182.88	10.877		
13,900.00	7,730.00	7,707.00	7,707.00	90.03	133.53	-90.00	-5,431.68	3,322.68	1,907.16	1,722.81	184.35	10.345		
14,000.00	7,730.00	7,707.00	7,707.00	91.59	133.53	-90.00	-5,431.68	3,322.68	1,826.97	1,640.86	186.11	9.816		
14,100.00	7,730.00	7,707.00	7,707.00	93.16	133.53	-90.00	-5,431.68	3,322.68	1,748.83	1,560.62	188.21	9.292		
14,200.00	7,730.00	7,707.00	7,707.00	94.74	133.53	-90.00	-5,431.68	3,322.68	1,673.01	1,482.35	190.66	8.775		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	7,707.00	7,707.00	96.33	133.53	-90.00	-5,431.68	3,322.68	1,599.85	1,406.35	193.51	8.268		
14,400.00	7,730.00	7,707.00	7,707.00	97.92	133.53	-90.00	-5,431.68	3,322.68	1,529.74	1,332.98	196.76	7.775		
14,500.00	7,730.00	7,707.00	7,707.00	99.51	133.53	-90.00	-5,431.68	3,322.68	1,463.10	1,262.66	200.44	7.299		
14,600.00	7,730.00	7,707.00	7,707.00	101.11	133.53	-90.00	-5,431.68	3,322.68	1,400.44	1,195.89	204.55	6.846		
14,700.00	7,730.00	7,707.00	7,707.00	102.72	133.53	-90.00	-5,431.68	3,322.68	1,342.32	1,133.26	209.06	6.421		
14,800.00	7,730.00	7,707.00	7,707.00	104.33	133.53	-90.00	-5,431.68	3,322.68	1,289.34	1,075.41	213.92	6.027		
14,900.00	7,730.00	7,707.00	7,707.00	105.94	133.53	-90.00	-5,431.68	3,322.68	1,242.16	1,023.09	219.06	5.670		
15,000.00	7,730.00	7,707.00	7,707.00	107.56	133.53	-90.00	-5,431.68	3,322.68	1,201.47	977.10	224.37	5.355		
15,100.00	7,730.00	7,707.00	7,707.00	109.18	133.53	-90.00	-5,431.68	3,322.68	1,167.95	938.25	229.70	5.085		
15,200.00	7,730.00	7,707.00	7,707.00	110.81	133.53	-90.00	-5,431.68	3,322.68	1,142.22	907.35	234.87	4.863		
15,300.00	7,730.00	7,707.00	7,707.00	112.44	133.53	-90.00	-5,431.68	3,322.68	1,124.83	885.13	239.70	4.693		
15,400.00	7,730.00	7,707.00	7,707.00	114.08	133.53	-90.00	-5,431.68	3,322.68	1,116.16	872.15	244.01	4.574		
15,447.15	7,730.00	7,707.00	7,707.00	114.85	133.53	-90.00	-5,431.68	3,322.68	1,115.16	869.35	245.81	4.537 CC		
15,500.00	7,730.00	7,707.00	7,707.00	115.72	133.53	-90.00	-5,431.68	3,322.68	1,116.41	868.78	247.64	4.508 ES		
15,600.00	7,730.00	7,707.00	7,707.00	117.36	133.53	-90.00	-5,431.68	3,322.68	1,125.59	875.10	250.49	4.494 SF		
15,700.00	7,730.00	7,707.00	7,707.00	119.00	133.53	-90.00	-5,431.68	3,322.68	1,143.47	890.94	252.53	4.528		
15,800.00	7,730.00	7,707.00	7,707.00	120.65	133.53	-90.00	-5,431.68	3,322.68	1,169.66	915.88	253.77	4.609		
15,900.00	7,730.00	7,707.00	7,707.00	122.30	133.53	-90.00	-5,431.68	3,322.68	1,203.61	949.32	254.29	4.733		
16,000.00	7,730.00	7,707.00	7,707.00	123.96	133.53	-90.00	-5,431.68	3,322.68	1,244.68	990.50	254.18	4.897		
16,100.00	7,730.00	7,707.00	7,707.00	125.61	133.53	-90.00	-5,431.68	3,322.68	1,292.21	1,038.64	253.57	5.096		
16,200.00	7,730.00	7,707.00	7,707.00	127.27	133.53	-90.00	-5,431.68	3,322.68	1,345.50	1,092.94	252.56	5.327		
16,300.00	7,730.00	7,707.00	7,707.00	128.94	133.53	-90.00	-5,431.68	3,322.68	1,403.90	1,152.64	251.26	5.587		
16,400.00	7,730.00	7,707.00	7,707.00	130.60	133.53	-90.00	-5,431.68	3,322.68	1,466.81	1,217.03	249.77	5.873		
16,500.00	7,730.00	7,707.00	7,707.00	132.27	133.53	-90.00	-5,431.68	3,322.68	1,533.65	1,285.49	248.16	6.180		
16,600.00	7,730.00	7,707.00	7,707.00	133.94	133.53	-90.00	-5,431.68	3,322.68	1,603.95	1,357.46	246.49	6.507		
16,700.00	7,730.00	7,707.00	7,707.00	135.61	133.53	-90.00	-5,431.68	3,322.68	1,677.27	1,432.48	244.79	6.852		
16,800.00	7,730.00	7,707.00	7,707.00	137.28	133.53	-90.00	-5,431.68	3,322.68	1,753.23	1,510.12	243.11	7.212		
16,900.00	7,730.00	7,707.00	7,707.00	138.96	133.53	-90.00	-5,431.68	3,322.68	1,831.50	1,590.04	241.46	7.585		
17,000.00	7,730.00	7,707.00	7,707.00	140.64	133.53	-90.00	-5,431.68	3,322.68	1,911.79	1,671.93	239.86	7.970		
17,100.00	7,730.00	7,707.00	7,707.00	142.32	133.53	-90.00	-5,431.68	3,322.68	1,993.87	1,755.55	238.32	8.366		
17,200.00	7,730.00	7,707.00	7,707.00	144.00	133.53	-90.00	-5,431.68	3,322.68	2,077.52	1,840.67	236.85	8.771		
17,300.00	7,730.00	7,707.00	7,707.00	145.69	133.53	-90.00	-5,431.68	3,322.68	2,162.56	1,927.11	235.45	9.185		
17,400.00	7,730.00	7,707.00	7,707.00	147.37	133.53	-90.00	-5,431.68	3,322.68	2,248.83	2,014.72	234.11	9.606		
17,500.00	7,730.00	7,707.00	7,707.00	149.06	133.53	-90.00	-5,431.68	3,322.68	2,336.19	2,103.35	232.84	10.033		
17,600.00	7,730.00	7,707.00	7,707.00	150.75	133.53	-90.00	-5,431.68	3,322.68	2,424.54	2,192.89	231.64	10.467		
17,700.00	7,730.00	7,707.00	7,707.00	152.44	133.53	-90.00	-5,431.68	3,322.68	2,513.75	2,283.24	230.51	10.905		
17,800.00	7,730.00	7,707.00	7,707.00	154.13	133.53	-90.00	-5,431.68	3,322.68	2,603.75	2,374.32	229.43	11.349		
17,900.00	7,730.00	7,707.00	7,707.00	155.83	133.53	-90.00	-5,431.68	3,322.68	2,694.45	2,466.04	228.42	11.796		
18,000.00	7,730.00	7,707.00	7,707.00	157.52	133.53	-90.00	-5,431.68	3,322.68	2,785.80	2,558.34	227.46	12.248		
18,100.00	7,730.00	7,707.00	7,707.00	159.22	133.53	-90.00	-5,431.68	3,322.68	2,877.71	2,651.16	226.55	12.702		
18,200.00	7,730.00	7,707.00	7,707.00	160.92	133.53	-90.00	-5,431.68	3,322.68	2,970.15	2,744.46	225.69	13.160		
18,300.00	7,730.00	7,707.00	7,707.00	162.62	133.53	-90.00	-5,431.68	3,322.68	3,063.06	2,838.19	224.88	13.621		
18,400.00	7,730.00	7,707.00	7,707.00	164.32	133.53	-90.00	-5,431.68	3,322.68	3,156.41	2,932.31	224.10	14.085		
18,426.22	7,730.00	7,707.00	7,707.00	164.76	133.53	-90.00	-5,431.68	3,322.68	3,180.96	2,957.05	223.91	14.206		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	134.06	-5,559.46	5,744.14	7,994.02					
100.00	100.00	60.00	60.00	0.13	0.50	134.06	-5,559.46	5,744.14	7,993.92	7,993.29	0.63	N/A		
200.00	200.00	160.00	160.00	0.49	1.88	134.06	-5,559.46	5,744.14	7,993.92	7,991.55	2.37	3,374.203		
300.00	300.00	260.00	260.00	0.85	3.62	134.06	-5,559.46	5,744.14	7,993.92	7,989.45	4.47	1,787.178		
400.00	400.00	360.00	360.00	1.21	5.37	134.06	-5,559.46	5,744.14	7,993.92	7,987.34	6.58	1,215.486		
500.00	500.00	460.00	460.00	1.57	7.11	134.06	-5,559.46	5,744.14	7,993.92	7,985.24	8.68	920.902		
600.00	600.00	560.00	560.00	1.93	8.86	134.06	-5,559.46	5,744.14	7,993.92	7,983.14	10.78	741.253		
700.00	700.00	660.00	660.00	2.29	10.60	134.06	-5,559.46	5,744.14	7,993.92	7,981.03	12.89	620.254		
800.00	800.00	760.00	760.00	2.64	12.35	134.06	-5,559.46	5,744.14	7,993.92	7,978.93	14.99	533.215		
900.00	900.00	860.00	860.00	3.00	14.09	134.06	-5,559.46	5,744.14	7,993.92	7,976.83	17.10	467.597		
1,000.00	1,000.00	960.00	960.00	3.36	15.84	134.06	-5,559.46	5,744.14	7,993.92	7,974.72	19.20	416.360		
1,100.00	1,100.00	1,060.00	1,060.00	3.72	17.58	134.06	-5,559.46	5,744.14	7,993.92	7,972.62	21.30	375.243		
1,200.00	1,200.00	1,160.00	1,160.00	4.08	19.33	134.06	-5,559.46	5,744.14	7,993.92	7,970.51	23.41	341.516		
1,300.00	1,299.98	1,259.98	1,259.98	4.43	21.07	86.96	-5,559.46	5,744.14	7,993.83	7,968.32	25.51	313.390		
1,400.00	1,399.84	1,359.84	1,359.84	4.79	22.82	87.00	-5,559.46	5,744.14	7,993.55	7,965.95	27.60	289.575		
1,500.00	1,499.45	1,459.45	1,459.45	5.15	24.56	87.07	-5,559.46	5,744.14	7,993.10	7,963.40	29.70	269.123		
1,600.00	1,598.70	1,558.70	1,558.70	5.51	26.29	87.17	-5,559.46	5,744.14	7,992.48	7,960.69	31.80	251.358		
1,700.00	1,697.47	1,657.47	1,657.47	5.89	28.01	87.30	-5,559.46	5,744.14	7,991.72	7,957.82	33.90	235.766		
1,800.00	1,795.62	1,755.62	1,755.62	6.28	29.73	87.45	-5,559.46	5,744.14	7,990.83	7,954.83	36.00	221.955		
1,900.00	1,893.06	1,853.06	1,853.06	6.69	31.43	87.63	-5,559.46	5,744.14	7,989.84	7,951.72	38.12	209.618		
2,000.00	1,989.64	1,949.64	1,949.64	7.13	33.11	87.83	-5,559.46	5,744.14	7,988.77	7,948.53	40.24	198.516		
2,100.00	2,085.27	2,045.27	2,045.27	7.61	34.78	88.05	-5,559.46	5,744.14	7,987.67	7,945.29	42.38	188.458		
2,200.00	2,179.82	2,139.82	2,139.82	8.12	36.43	88.29	-5,559.46	5,744.14	7,986.57	7,942.03	44.54	179.293		
2,300.00	2,273.17	2,233.17	2,233.17	8.67	38.06	88.55	-5,559.46	5,744.14	7,985.51	7,938.79	46.73	170.896		
2,400.00	2,365.21	2,325.21	2,325.21	9.27	39.67	88.83	-5,559.46	5,744.14	7,984.54	7,935.61	48.93	163.169		
2,500.00	2,455.84	2,415.84	2,415.84	9.92	41.25	89.12	-5,559.46	5,744.14	7,983.71	7,932.54	51.17	156.032		
2,580.62	2,527.80	2,487.80	2,487.80	10.49	42.50	89.36	-5,559.46	5,744.14	7,983.17	7,930.19	52.99	150.661		
2,600.00	2,544.97	2,504.97	2,504.97	10.63	42.80	89.42	-5,559.46	5,744.14	7,983.07	7,929.64	53.43	149.419		
2,700.00	2,633.58	2,606.42	2,593.58	11.37	44.57	89.72	-5,559.46	5,744.14	7,982.67	7,926.73	55.94	142.702		
2,796.40	2,718.99	2,678.99	2,678.99	12.10	45.84	90.00	-5,559.46	5,744.14	7,982.55	7,924.60	57.94	137.767		
2,800.00	2,722.19	2,682.19	2,682.19	12.13	45.90	90.01	-5,559.46	5,744.14	7,982.55	7,924.52	58.03	137.569		
2,900.00	2,810.80	2,770.80	2,770.80	12.91	47.44	90.31	-5,559.46	5,744.14	7,982.69	7,922.34	60.35	132.265		
3,000.00	2,899.41	2,859.41	2,859.41	13.71	48.99	90.60	-5,559.46	5,744.14	7,983.10	7,920.41	62.70	127.328		
3,100.00	2,988.02	2,948.02	2,948.02	14.52	50.54	90.89	-5,559.46	5,744.14	7,983.79	7,918.73	65.05	122.727		
3,200.00	3,076.63	3,036.63	3,036.63	15.34	52.08	91.19	-5,559.46	5,744.14	7,984.74	7,917.32	67.42	118.434		
3,300.00	3,165.24	3,125.24	3,125.24	16.16	53.63	91.48	-5,559.46	5,744.14	7,985.96	7,916.16	69.79	114.422		
3,400.00	3,253.85	3,213.85	3,213.85	17.00	55.18	91.78	-5,559.46	5,744.14	7,987.45	7,915.27	72.18	110.667		
3,500.00	3,342.46	3,302.46	3,302.46	17.84	56.72	92.07	-5,559.46	5,744.14	7,989.21	7,914.64	74.56	107.146		
3,600.00	3,431.07	3,408.93	3,391.07	18.69	58.58	92.37	-5,559.46	5,744.14	7,991.23	7,913.96	77.27	103.421		
3,700.00	3,519.68	3,479.68	3,479.68	19.55	59.82	92.66	-5,559.46	5,744.14	7,993.53	7,914.17	79.35	100.732		
3,800.00	3,608.29	3,568.29	3,568.29	20.40	61.36	92.96	-5,559.46	5,744.14	7,996.09	7,914.33	81.76	97.804		
3,900.00	3,696.90	3,656.90	3,656.90	21.26	62.91	93.25	-5,559.46	5,744.14	7,998.92	7,914.76	84.16	95.044		
4,000.00	3,785.51	3,745.51	3,745.51	22.13	64.46	93.54	-5,559.46	5,744.14	8,002.02	7,915.45	86.57	92.437		
4,100.00	3,874.12	3,834.12	3,834.12	23.00	66.00	93.84	-5,559.46	5,744.14	8,005.38	7,916.40	88.98	89.973		
4,200.00	3,962.73	3,922.73	3,922.73	23.87	67.55	94.13	-5,559.46	5,744.14	8,009.01	7,917.63	91.39	87.639		
4,300.00	4,051.34	4,011.34	4,011.34	24.74	69.09	94.42	-5,559.46	5,744.14	8,012.91	7,919.11	93.80	85.427		
4,400.00	4,139.95	4,100.05	4,099.95	25.62	70.64	94.72	-5,559.46	5,744.14	8,017.07	7,920.86	96.21	83.326		
4,500.00	4,228.56	4,188.56	4,188.56	26.49	72.19	95.01	-5,559.46	5,744.14	8,021.50	7,922.88	98.62	81.334		
4,600.00	4,317.17	4,277.17	4,277.17	27.37	73.73	95.30	-5,559.46	5,744.14	8,026.20	7,925.16	101.04	79.437		
4,700.00	4,405.78	4,365.78	4,365.78	28.25	75.28	95.59	-5,559.46	5,744.14	8,031.16	7,927.70	103.45	77.631		
4,800.00	4,494.39	4,454.39	4,454.39	29.13	76.83	95.89	-5,559.46	5,744.14	8,036.38	7,930.51	105.87	75.910		
4,900.00	4,583.00	4,543.00	4,543.00	30.02	78.37	96.18	-5,559.46	5,744.14	8,041.87	7,933.59	108.28	74.268		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,000.00	4,671.61	4,631.61	4,631.61	30.90	79.92	96.47	-5,559.46	5,744.14	8,047.62	7,936.92	110.70	72.700		
5,100.00	4,760.22	4,720.22	4,720.22	31.79	81.47	96.76	-5,559.46	5,744.14	8,053.63	7,940.52	113.11	71.202		
5,200.00	4,848.83	4,808.83	4,808.83	32.67	83.01	97.05	-5,559.46	5,744.14	8,059.91	7,944.39	115.52	69.769		
5,300.00	4,937.44	4,902.56	4,897.44	33.56	84.65	97.34	-5,559.46	5,744.14	8,066.45	7,948.42	118.02	68.345		
5,400.00	5,026.05	4,986.05	4,986.05	34.45	86.11	97.63	-5,559.46	5,744.14	8,073.24	7,952.90	120.35	67.083		
5,500.00	5,114.66	5,074.66	5,074.66	35.34	87.65	97.92	-5,559.46	5,744.14	8,080.30	7,957.55	122.76	65.823		
5,600.00	5,203.27	5,163.27	5,163.27	36.23	89.20	98.21	-5,559.46	5,744.14	8,087.62	7,962.45	125.17	64.615		
5,700.00	5,291.88	5,251.88	5,251.88	37.12	90.75	98.50	-5,559.46	5,744.14	8,095.20	7,967.62	127.57	63.454		
5,800.00	5,380.50	5,340.50	5,340.50	38.01	92.29	98.78	-5,559.46	5,744.14	8,103.03	7,973.05	129.98	62.340		
5,900.00	5,469.11	5,425.00	5,425.00	38.90	93.77	99.06	-5,559.46	5,744.14	8,111.12	7,978.81	132.32	61.302		
6,000.00	5,557.72	5,425.00	5,425.00	39.79	93.77	99.06	-5,559.46	5,744.14	8,120.00	7,986.85	133.15	60.982		
6,100.00	5,646.33	5,425.00	5,425.00	40.68	93.77	99.06	-5,559.46	5,744.14	8,130.10	7,996.12	133.97	60.684		
6,200.00	5,734.94	5,425.00	5,425.00	41.58	93.77	99.06	-5,559.46	5,744.14	8,141.41	8,006.63	134.78	60.406		
6,300.00	5,823.55	5,425.00	5,425.00	42.47	93.77	99.06	-5,559.46	5,744.14	8,153.93	8,018.37	135.56	60.149		
6,400.00	5,912.16	5,425.00	5,425.00	43.36	93.77	99.06	-5,559.46	5,744.14	8,167.66	8,031.33	136.33	59.912		
6,500.00	6,000.77	5,425.00	5,425.00	44.26	93.77	99.06	-5,559.46	5,744.14	8,182.59	8,045.51	137.08	59.694		
6,600.00	6,089.38	5,425.00	5,425.00	45.15	93.77	99.06	-5,559.46	5,744.14	8,198.71	8,060.90	137.80	59.495		
6,700.00	6,177.99	5,425.00	5,425.00	46.05	93.77	99.06	-5,559.46	5,744.14	8,216.01	8,077.50	138.51	59.315		
6,800.00	6,266.60	5,425.00	5,425.00	46.94	93.77	99.06	-5,559.46	5,744.14	8,234.50	8,095.29	139.21	59.153		
6,900.00	6,355.21	5,425.00	5,425.00	47.84	93.77	99.06	-5,559.46	5,744.14	8,254.15	8,114.27	139.88	59.009		
7,000.00	6,443.82	5,425.00	5,425.00	48.74	93.77	99.06	-5,559.46	5,744.14	8,274.97	8,134.44	140.53	58.883		
7,100.00	6,532.43	5,425.00	5,425.00	49.63	93.77	99.06	-5,559.46	5,744.14	8,296.94	8,155.77	141.17	58.774		
7,200.00	6,621.04	5,425.00	5,425.00	50.53	93.77	99.06	-5,559.46	5,744.14	8,320.05	8,178.27	141.78	58.682		
7,300.00	6,709.65	5,425.00	5,425.00	51.42	93.77	99.06	-5,559.46	5,744.14	8,344.30	8,201.92	142.38	58.606		
7,400.00	6,798.26	5,425.00	5,425.00	52.32	93.77	99.06	-5,559.46	5,744.14	8,369.67	8,226.71	142.96	58.546		
7,500.00	6,886.87	5,425.00	5,425.00	53.22	93.77	99.06	-5,559.46	5,744.14	8,396.16	8,252.64	143.52	58.503		
7,600.00	6,975.48	5,425.00	5,425.00	54.12	93.77	99.06	-5,559.46	5,744.14	8,423.75	8,279.69	144.06	58.474		
7,656.30	7,025.36	5,425.00	5,425.00	54.62	93.77	99.06	-5,559.46	5,744.14	8,439.76	8,295.41	144.36	58.465		
7,700.00	7,064.54	5,425.00	5,425.00	55.00	93.77	92.50	-5,559.46	5,744.14	8,451.05	8,306.48	144.57	58.456		
7,750.00	7,110.29	5,425.00	5,425.00	55.40	93.77	82.95	-5,559.46	5,744.14	8,460.77	8,315.99	144.79	58.436		
7,800.00	7,156.67	5,425.00	5,425.00	55.75	93.77	71.37	-5,559.46	5,744.14	8,467.04	8,322.07	144.97	58.406		
7,850.00	7,203.34	5,425.00	5,425.00	56.05	93.77	58.55	-5,559.46	5,744.14	8,469.81	8,324.70	145.11	58.368		
7,900.00	7,249.95	5,425.00	5,425.00	56.30	93.77	45.81	-5,559.46	5,744.14	8,469.06	8,323.85	145.21	58.324		
7,950.00	7,296.14	5,425.00	5,425.00	56.50	93.77	34.33	-5,559.46	5,744.14	8,464.80	8,319.54	145.26	58.272		
8,000.00	7,341.56	5,425.00	5,425.00	56.64	93.77	24.64	-5,559.46	5,744.14	8,457.05	8,311.78	145.27	58.214		
8,050.00	7,385.86	5,425.00	5,425.00	56.74	93.77	16.68	-5,559.46	5,744.14	8,445.87	8,300.63	145.25	58.149		
8,100.00	7,428.71	5,425.00	5,425.00	56.79	93.77	10.12	-5,559.46	5,744.14	8,431.33	8,286.15	145.18	58.075		
8,150.00	7,469.77	5,425.00	5,425.00	56.80	93.77	4.60	-5,559.46	5,744.14	8,413.52	8,268.44	145.08	57.993		
8,200.00	7,508.75	5,425.00	5,425.00	56.77	93.77	-0.20	-5,559.46	5,744.14	8,392.55	8,247.60	144.94	57.902		
8,250.00	7,545.33	5,425.00	5,425.00	56.70	93.77	-4.55	-5,559.46	5,744.14	8,368.56	8,223.78	144.78	57.803		
8,300.00	7,579.25	5,425.00	5,425.00	56.59	93.77	-8.66	-5,559.46	5,744.14	8,341.71	8,197.13	144.59	57.694		
8,350.00	7,610.24	5,425.00	5,425.00	56.45	93.77	-12.71	-5,559.46	5,744.14	8,312.18	8,167.81	144.37	57.575		
8,400.00	7,638.06	5,425.00	5,425.00	56.28	93.77	-16.84	-5,559.46	5,744.14	8,280.17	8,136.03	144.13	57.448		
8,450.00	7,662.52	5,425.00	5,425.00	56.09	93.77	-21.22	-5,559.46	5,744.14	8,245.88	8,102.00	143.88	57.311		
8,500.00	7,683.41	5,425.00	5,425.00	55.88	93.77	-25.98	-5,559.46	5,744.14	8,209.56	8,065.95	143.61	57.164		
8,550.00	7,700.59	5,425.00	5,425.00	55.64	93.77	-31.25	-5,559.46	5,744.14	8,171.45	8,028.12	143.34	57.009		
8,600.00	7,713.91	5,425.00	5,425.00	55.39	93.77	-37.14	-5,559.46	5,744.14	8,131.83	7,988.77	143.06	56.844		
8,650.00	7,723.29	5,425.00	5,425.00	55.14	93.77	-43.74	-5,559.46	5,744.14	8,090.97	7,948.20	142.77	56.671		
8,700.00	7,728.64	5,425.00	5,425.00	54.87	93.77	-51.01	-5,559.46	5,744.14	8,049.17	7,906.68	142.49	56.489		
8,740.83	7,730.00	5,425.00	5,425.00	54.65	93.77	-57.37	-5,559.46	5,744.14	8,014.55	7,872.29	142.26	56.336		
8,800.00	7,730.00	5,425.00	5,425.00	54.33	93.77	-57.37	-5,559.46	5,744.14	7,964.22	7,822.28	141.94	56.110		
8,900.00	7,730.00	5,425.00	5,425.00	53.82	93.77	-57.37	-5,559.46	5,744.14	7,879.43	7,738.05	141.39	55.730		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	5,425.00	5,425.00	53.33	93.77	-57.37	-5,559.46	5,744.14	7,795.01	7,654.17	140.83	55.349		
9,100.00	7,730.00	5,425.00	5,425.00	52.87	93.77	-57.37	-5,559.46	5,744.14	7,710.95	7,570.67	140.28	54.968		
9,200.00	7,730.00	5,425.00	5,425.00	52.44	93.77	-57.37	-5,559.46	5,744.14	7,627.28	7,487.55	139.73	54.587		
9,300.00	7,730.00	5,425.00	5,425.00	52.03	93.77	-57.37	-5,559.46	5,744.14	7,544.01	7,404.83	139.18	54.204		
9,400.00	7,730.00	5,425.00	5,425.00	51.65	93.77	-57.37	-5,559.46	5,744.14	7,461.15	7,322.52	138.63	53.821		
9,500.00	7,730.00	5,425.00	5,425.00	51.29	93.77	-57.37	-5,559.46	5,744.14	7,378.72	7,240.63	138.08	53.436		
9,600.00	7,730.00	5,425.00	5,425.00	50.95	93.77	-57.37	-5,559.46	5,744.14	7,296.72	7,159.17	137.55	53.050		
9,700.00	7,730.00	5,425.00	5,425.00	50.64	93.77	-57.37	-5,559.46	5,744.14	7,215.18	7,078.16	137.01	52.661		
9,800.00	7,730.00	5,425.00	5,425.00	50.35	93.77	-57.37	-5,559.46	5,744.14	7,134.10	6,997.61	136.49	52.269		
9,900.00	7,730.00	5,425.00	5,425.00	50.09	93.77	-57.37	-5,559.46	5,744.14	7,053.52	6,917.54	135.97	51.874		
10,000.00	7,730.00	5,425.00	5,425.00	49.86	93.77	-57.37	-5,559.46	5,744.14	6,973.43	6,837.96	135.47	51.475		
10,100.00	7,730.00	5,425.00	5,425.00	49.65	93.77	-57.37	-5,559.46	5,744.14	6,893.87	6,758.88	134.98	51.071		
10,200.00	7,730.00	5,425.00	5,425.00	49.48	93.77	-57.37	-5,559.46	5,744.14	6,814.84	6,680.33	134.51	50.663		
10,300.00	7,730.00	5,425.00	5,425.00	49.35	93.77	-57.37	-5,559.46	5,744.14	6,736.38	6,602.32	134.06	50.249		
10,400.00	7,730.00	5,425.00	5,425.00	49.27	93.77	-57.37	-5,559.46	5,744.14	6,658.49	6,524.86	133.63	49.828		
10,500.00	7,730.00	5,425.00	5,425.00	49.26	93.77	-57.37	-5,559.46	5,744.14	6,581.19	6,447.97	133.22	49.400		
10,600.00	7,730.00	5,425.00	5,425.00	49.32	93.77	-57.37	-5,559.46	5,744.14	6,504.52	6,371.68	132.84	48.964		
10,700.00	7,730.00	5,425.00	5,425.00	49.51	93.77	-57.37	-5,559.46	5,744.14	6,428.49	6,295.99	132.49	48.520		
10,800.00	7,730.00	5,425.00	5,425.00	49.83	93.77	-57.37	-5,559.46	5,744.14	6,353.12	6,220.94	132.18	48.065		
10,900.00	7,730.00	5,425.00	5,425.00	50.31	93.77	-57.37	-5,559.46	5,744.14	6,278.44	6,146.54	131.90	47.601		
11,000.00	7,730.00	5,425.00	5,425.00	50.96	93.77	-57.37	-5,559.46	5,744.14	6,204.47	6,072.81	131.66	47.125		
11,100.00	7,730.00	5,425.00	5,425.00	51.75	93.77	-57.37	-5,559.46	5,744.14	6,131.24	5,999.77	131.46	46.638		
11,200.00	7,730.00	5,425.00	5,425.00	52.66	93.77	-57.37	-5,559.46	5,744.14	6,058.77	5,927.46	131.32	46.138		
11,300.00	7,730.00	5,425.00	5,425.00	53.67	93.77	-57.37	-5,559.46	5,744.14	5,987.10	5,855.88	131.22	45.625		
11,400.00	7,730.00	5,425.00	5,425.00	54.75	93.77	-57.37	-5,559.46	5,744.14	5,916.26	5,785.07	131.18	45.099		
11,500.00	7,730.00	5,425.00	5,425.00	55.89	93.77	-57.37	-5,559.46	5,744.14	5,846.26	5,715.06	131.20	44.559		
11,600.00	7,730.00	5,425.00	5,425.00	57.07	93.77	-57.37	-5,559.46	5,744.14	5,777.15	5,645.86	131.28	44.005		
11,700.00	7,730.00	5,425.00	5,425.00	58.30	93.77	-57.37	-5,559.46	5,744.14	5,708.95	5,577.52	131.43	43.436		
11,800.00	7,730.00	5,425.00	5,425.00	59.55	93.77	-57.37	-5,559.46	5,744.14	5,641.70	5,510.05	131.65	42.854		
11,900.00	7,730.00	5,425.00	5,425.00	60.84	93.77	-57.37	-5,559.46	5,744.14	5,575.43	5,443.49	131.94	42.259		
12,000.00	7,730.00	5,425.00	5,425.00	62.15	93.77	-57.37	-5,559.46	5,744.14	5,510.18	5,377.88	132.30	41.650		
12,100.00	7,730.00	5,425.00	5,425.00	63.49	93.77	-57.37	-5,559.46	5,744.14	5,445.98	5,313.25	132.73	41.029		
12,200.00	7,730.00	5,425.00	5,425.00	64.85	93.77	-57.37	-5,559.46	5,744.14	5,382.88	5,249.63	133.25	40.397		
12,300.00	7,730.00	5,425.00	5,425.00	66.22	93.77	-57.37	-5,559.46	5,744.14	5,320.91	5,187.06	133.85	39.754		
12,400.00	7,730.00	5,425.00	5,425.00	67.62	93.77	-57.37	-5,559.46	5,744.14	5,260.11	5,125.59	134.52	39.102		
12,500.00	7,730.00	5,425.00	5,425.00	69.03	93.77	-57.37	-5,559.46	5,744.14	5,200.52	5,065.24	135.28	38.443		
12,600.00	7,730.00	5,425.00	5,425.00	70.45	93.77	-57.37	-5,559.46	5,744.14	5,142.19	5,006.07	136.12	37.777		
12,700.00	7,730.00	5,425.00	5,425.00	71.90	93.77	-57.37	-5,559.46	5,744.14	5,085.15	4,948.11	137.04	37.107		
12,800.00	7,730.00	5,425.00	5,425.00	73.35	93.77	-57.37	-5,559.46	5,744.14	5,029.45	4,891.41	138.04	36.435		
12,900.00	7,730.00	5,425.00	5,425.00	74.81	93.77	-57.37	-5,559.46	5,744.14	4,975.14	4,836.02	139.12	35.761		
13,000.00	7,730.00	5,425.00	5,425.00	76.29	93.77	-57.37	-5,559.46	5,744.14	4,922.27	4,781.99	140.28	35.089		
13,100.00	7,730.00	5,425.00	5,425.00	77.78	93.77	-57.37	-5,559.46	5,744.14	4,870.87	4,729.35	141.52	34.419		
13,200.00	7,730.00	5,425.00	5,425.00	79.28	93.77	-57.37	-5,559.46	5,744.14	4,821.00	4,678.17	142.83	33.753		
13,300.00	7,730.00	5,425.00	5,425.00	80.79	93.77	-57.37	-5,559.46	5,744.14	4,772.71	4,628.49	144.22	33.094		
13,400.00	7,730.00	5,425.00	5,425.00	82.31	93.77	-57.37	-5,559.46	5,744.14	4,726.03	4,580.36	145.67	32.443		
13,500.00	7,730.00	5,425.00	5,425.00	83.84	93.77	-57.37	-5,559.46	5,744.14	4,681.03	4,533.83	147.20	31.801		
13,600.00	7,730.00	5,425.00	5,425.00	85.37	93.77	-57.37	-5,559.46	5,744.14	4,637.75	4,488.96	148.79	31.170		
13,700.00	7,730.00	5,425.00	5,425.00	86.92	93.77	-57.37	-5,559.46	5,744.14	4,596.24	4,445.79	150.44	30.551		
13,800.00	7,730.00	5,425.00	5,425.00	88.47	93.77	-57.37	-5,559.46	5,744.14	4,556.54	4,404.38	152.16	29.947		
13,900.00	7,730.00	5,425.00	5,425.00	90.03	93.77	-57.37	-5,559.46	5,744.14	4,518.71	4,364.78	153.92	29.357		
14,000.00	7,730.00	5,425.00	5,425.00	91.59	93.77	-57.37	-5,559.46	5,744.14	4,482.79	4,327.04	155.74	28.783		
14,100.00	7,730.00	5,425.00	5,425.00	93.16	93.77	-57.37	-5,559.46	5,744.14	4,448.83	4,291.22	157.61	28.227		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	94.74	93.77	-57.37	-5,559.46	5,744.14	4,416.87	4,257.35	159.52	27.688		
14,300.00	7,730.00	5,425.00	5,425.00	96.33	93.77	-57.37	-5,559.46	5,744.14	4,386.96	4,225.48	161.47	27.168		
14,400.00	7,730.00	5,425.00	5,425.00	97.92	93.77	-57.37	-5,559.46	5,744.14	4,359.13	4,195.67	163.46	26.668		
14,500.00	7,730.00	5,425.00	5,425.00	99.51	93.77	-57.37	-5,559.46	5,744.14	4,333.44	4,167.96	165.48	26.187		
14,600.00	7,730.00	5,425.00	5,425.00	101.11	93.77	-57.37	-5,559.46	5,744.14	4,309.92	4,142.40	167.52	25.728		
14,700.00	7,730.00	5,425.00	5,425.00	102.72	93.77	-57.37	-5,559.46	5,744.14	4,288.59	4,119.01	169.59	25.289		
14,800.00	7,730.00	5,425.00	5,425.00	104.33	93.77	-57.37	-5,559.46	5,744.14	4,269.51	4,097.84	171.67	24.871		
14,900.00	7,730.00	5,425.00	5,425.00	105.94	93.77	-57.37	-5,559.46	5,744.14	4,252.69	4,078.93	173.76	24.474		
15,000.00	7,730.00	5,425.00	5,425.00	107.56	93.77	-57.37	-5,559.46	5,744.14	4,238.16	4,062.30	175.86	24.099		
15,100.00	7,730.00	5,425.00	5,425.00	109.18	93.77	-57.37	-5,559.46	5,744.14	4,225.96	4,047.99	177.96	23.746		
15,200.00	7,730.00	5,425.00	5,425.00	110.81	93.77	-57.37	-5,559.46	5,744.14	4,216.08	4,036.02	180.06	23.415		
15,300.00	7,730.00	5,425.00	5,425.00	112.44	93.77	-57.37	-5,559.46	5,744.14	4,208.57	4,026.41	182.15	23.105		
15,400.00	7,730.00	5,425.00	5,425.00	114.08	93.77	-57.37	-5,559.46	5,744.14	4,203.42	4,019.19	184.23	22.816		
15,500.00	7,730.00	5,425.00	5,425.00	115.72	93.77	-57.37	-5,559.46	5,744.14	4,200.64	4,014.35	186.29	22.549		
15,566.67	7,730.00	5,425.00	5,425.00	116.81	93.77	-57.37	-5,559.46	5,744.14	4,200.11	4,012.46	187.65	22.383 CC		
15,600.00	7,730.00	5,425.00	5,425.00	117.36	93.77	-57.37	-5,559.46	5,744.14	4,200.24	4,011.92	188.33	22.303		
15,700.00	7,730.00	5,425.00	5,425.00	119.00	93.77	-57.37	-5,559.46	5,744.14	4,202.23	4,011.89	190.34	22.078 ES		
15,800.00	7,730.00	5,425.00	5,425.00	120.65	93.77	-57.37	-5,559.46	5,744.14	4,206.59	4,014.27	192.32	21.873		
15,900.00	7,730.00	5,425.00	5,425.00	122.30	93.77	-57.37	-5,559.46	5,744.14	4,213.32	4,019.06	194.26	21.689		
16,000.00	7,730.00	5,425.00	5,425.00	123.96	93.77	-57.37	-5,559.46	5,744.14	4,222.40	4,026.24	196.16	21.525		
16,100.00	7,730.00	5,425.00	5,425.00	125.61	93.77	-57.37	-5,559.46	5,744.14	4,233.84	4,035.81	198.03	21.380		
16,200.00	7,730.00	5,425.00	5,425.00	127.27	93.77	-57.37	-5,559.46	5,744.14	4,247.59	4,047.75	199.84	21.255		
16,300.00	7,730.00	5,425.00	5,425.00	128.94	93.77	-57.37	-5,559.46	5,744.14	4,263.65	4,062.04	201.61	21.148		
16,400.00	7,730.00	5,425.00	5,425.00	130.60	93.77	-57.37	-5,559.46	5,744.14	4,281.98	4,078.65	203.33	21.060		
16,500.00	7,730.00	5,425.00	5,425.00	132.27	93.77	-57.37	-5,559.46	5,744.14	4,302.56	4,097.57	204.99	20.989		
16,600.00	7,730.00	5,425.00	5,425.00	133.94	93.77	-57.37	-5,559.46	5,744.14	4,325.35	4,118.76	206.60	20.936		
16,700.00	7,730.00	5,425.00	5,425.00	135.61	93.77	-57.37	-5,559.46	5,744.14	4,350.33	4,142.18	208.15	20.900		
16,800.00	7,730.00	5,425.00	5,425.00	137.28	93.77	-57.37	-5,559.46	5,744.14	4,377.44	4,167.80	209.64	20.881		
16,900.00	7,730.00	5,425.00	5,425.00	138.96	93.77	-57.37	-5,559.46	5,744.14	4,406.66	4,195.59	211.07	20.877 SF		
17,000.00	7,730.00	5,425.00	5,425.00	140.64	93.77	-57.37	-5,559.46	5,744.14	4,437.94	4,225.50	212.45	20.890		
17,100.00	7,730.00	5,425.00	5,425.00	142.32	93.77	-57.37	-5,559.46	5,744.14	4,471.24	4,257.48	213.76	20.917		
17,200.00	7,730.00	5,425.00	5,425.00	144.00	93.77	-57.37	-5,559.46	5,744.14	4,506.52	4,291.50	215.01	20.959		
17,300.00	7,730.00	5,425.00	5,425.00	145.69	93.77	-57.37	-5,559.46	5,744.14	4,543.72	4,327.51	216.21	21.016		
17,400.00	7,730.00	5,425.00	5,425.00	147.37	93.77	-57.37	-5,559.46	5,744.14	4,582.80	4,365.46	217.34	21.086		
17,500.00	7,730.00	5,425.00	5,425.00	149.06	93.77	-57.37	-5,559.46	5,744.14	4,623.71	4,405.29	218.41	21.169		
17,600.00	7,730.00	5,425.00	5,425.00	150.75	93.77	-57.37	-5,559.46	5,744.14	4,666.41	4,446.97	219.43	21.266		
17,700.00	7,730.00	5,425.00	5,425.00	152.44	93.77	-57.37	-5,559.46	5,744.14	4,710.84	4,490.45	220.39	21.375		
17,800.00	7,730.00	5,425.00	5,425.00	154.13	93.77	-57.37	-5,559.46	5,744.14	4,756.96	4,535.66	221.30	21.496		
17,900.00	7,730.00	5,425.00	5,425.00	155.83	93.77	-57.37	-5,559.46	5,744.14	4,804.72	4,582.57	222.15	21.628		
18,000.00	7,730.00	5,425.00	5,425.00	157.52	93.77	-57.37	-5,559.46	5,744.14	4,854.07	4,631.12	222.95	21.772		
18,100.00	7,730.00	5,425.00	5,425.00	159.22	93.77	-57.37	-5,559.46	5,744.14	4,904.96	4,681.27	223.70	21.927		
18,200.00	7,730.00	5,425.00	5,425.00	160.92	93.77	-57.37	-5,559.46	5,744.14	4,957.35	4,732.96	224.39	22.092		
18,300.00	7,730.00	5,425.00	5,425.00	162.62	93.77	-57.37	-5,559.46	5,744.14	5,011.19	4,786.14	225.05	22.267		
18,400.00	7,730.00	5,425.00	5,425.00	164.32	93.77	-57.37	-5,559.46	5,744.14	5,066.43	4,840.77	225.65	22.452		
18,426.22	7,730.00	5,425.00	5,425.00	164.76	93.77	-57.37	-5,559.46	5,744.14	5,081.14	4,855.33	225.80	22.503		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	133.76	-4,237.37	4,424.52	6,126.42					
100.00	100.00	64.00	64.00	0.13	0.50	133.76	-4,237.37	4,424.52	6,126.31	6,125.67	0.64	9,616.196		
200.00	200.00	164.00	164.00	0.49	1.90	133.76	-4,237.37	4,424.52	6,126.31	6,123.91	2.40	2,557.629		
300.00	300.00	264.00	264.00	0.85	3.65	133.76	-4,237.37	4,424.52	6,126.31	6,121.81	4.50	1,361.672		
400.00	400.00	364.00	364.00	1.21	5.39	133.76	-4,237.37	4,424.52	6,126.31	6,119.71	6.60	927.820		
500.00	500.00	464.00	464.00	1.57	7.14	133.76	-4,237.37	4,424.52	6,126.31	6,117.60	8.71	703.631		
600.00	600.00	564.00	564.00	1.93	8.88	133.76	-4,237.37	4,424.52	6,126.31	6,115.50	10.81	566.699		
700.00	700.00	664.00	664.00	2.29	10.63	133.76	-4,237.37	4,424.52	6,126.31	6,113.40	12.91	474.381		
800.00	800.00	764.00	764.00	2.64	12.37	133.76	-4,237.37	4,424.52	6,126.31	6,111.29	15.02	407.928		
900.00	900.00	864.00	864.00	3.00	14.12	133.76	-4,237.37	4,424.52	6,126.31	6,109.19	17.12	357.805		
1,000.00	1,000.00	964.00	964.00	3.36	15.87	133.76	-4,237.37	4,424.52	6,126.31	6,107.08	19.23	318.652		
1,100.00	1,100.00	1,064.00	1,064.00	3.72	17.61	133.76	-4,237.37	4,424.52	6,126.31	6,104.98	21.33	287.222		
1,200.00	1,200.00	1,164.00	1,164.00	4.08	19.36	133.76	-4,237.37	4,424.52	6,126.31	6,102.88	23.43	261.436		
1,300.00	1,299.98	1,263.98	1,263.98	4.43	21.10	86.66	-4,237.37	4,424.52	6,126.21	6,100.67	25.53	239.925		
1,400.00	1,399.84	1,363.84	1,363.84	4.79	22.84	86.71	-4,237.37	4,424.52	6,125.90	6,098.27	27.63	221.708		
1,500.00	1,499.45	1,463.45	1,463.45	5.15	24.58	86.81	-4,237.37	4,424.52	6,125.41	6,095.68	29.73	206.058		
1,600.00	1,598.70	1,562.70	1,562.70	5.51	26.31	86.93	-4,237.37	4,424.52	6,124.74	6,092.92	31.82	192.460		
1,700.00	1,697.47	1,661.47	1,661.47	5.89	28.04	87.09	-4,237.37	4,424.52	6,123.91	6,089.99	33.92	180.524		
1,800.00	1,795.62	1,759.62	1,759.62	6.28	29.75	87.29	-4,237.37	4,424.52	6,122.96	6,086.93	36.03	169.949		
1,900.00	1,893.06	1,857.06	1,857.06	6.69	31.45	87.51	-4,237.37	4,424.52	6,121.91	6,083.77	38.14	160.502		
2,000.00	1,989.64	1,953.64	1,953.64	7.13	33.14	87.77	-4,237.37	4,424.52	6,120.81	6,080.54	40.27	152.000		
2,100.00	2,085.27	2,049.27	2,049.27	7.61	34.81	88.05	-4,237.37	4,424.52	6,119.70	6,077.29	42.41	144.297		
2,200.00	2,179.82	2,143.82	2,143.82	8.12	36.46	88.36	-4,237.37	4,424.52	6,118.62	6,074.05	44.57	137.277		
2,300.00	2,273.17	2,237.17	2,237.17	8.67	38.09	88.69	-4,237.37	4,424.52	6,117.63	6,070.88	46.75	130.848		
2,400.00	2,365.21	2,329.21	2,329.21	9.27	39.69	89.05	-4,237.37	4,424.52	6,116.80	6,067.84	48.96	124.933		
2,500.00	2,455.84	2,419.84	2,419.84	9.92	41.27	89.42	-4,237.37	4,424.52	6,116.18	6,064.98	51.19	119.470		
2,580.62	2,527.80	2,508.20	2,491.80	10.49	42.82	89.73	-4,237.37	4,424.52	6,115.87	6,062.57	53.30	114.742		
2,600.00	2,544.97	2,508.97	2,508.97	10.63	42.83	89.80	-4,237.37	4,424.52	6,115.83	6,062.38	53.45	114.412		
2,651.01	2,590.16	2,554.16	2,554.16	11.00	43.62	90.00	-4,237.37	4,424.52	6,115.79	6,061.17	54.62	111.969		
2,700.00	2,633.58	2,602.42	2,597.58	11.37	44.46	90.19	-4,237.37	4,424.52	6,115.83	6,060.00	55.83	109.549		
2,800.00	2,722.19	2,686.19	2,686.19	12.13	45.92	90.57	-4,237.37	4,424.52	6,116.18	6,058.12	58.05	105.355		
2,900.00	2,810.80	2,774.80	2,774.80	12.91	47.47	90.96	-4,237.37	4,424.52	6,116.88	6,056.49	60.38	101.305		
3,000.00	2,899.41	2,863.41	2,863.41	13.71	49.02	91.34	-4,237.37	4,424.52	6,117.93	6,055.20	62.72	97.537		
3,100.00	2,988.02	2,952.02	2,952.02	14.52	50.56	91.73	-4,237.37	4,424.52	6,119.33	6,054.25	65.08	94.029		
3,200.00	3,076.63	3,040.63	3,040.63	15.34	52.11	92.11	-4,237.37	4,424.52	6,121.08	6,053.63	67.44	90.758		
3,300.00	3,165.24	3,129.24	3,129.24	16.16	53.66	92.50	-4,237.37	4,424.52	6,123.18	6,053.36	69.82	87.703		
3,400.00	3,253.85	3,217.85	3,217.85	17.00	55.20	92.88	-4,237.37	4,424.52	6,125.63	6,053.43	72.20	84.846		
3,500.00	3,342.46	3,306.46	3,306.46	17.84	56.75	93.26	-4,237.37	4,424.52	6,128.43	6,053.85	74.58	82.169		
3,600.00	3,431.07	3,404.93	3,395.07	18.69	58.47	93.65	-4,237.37	4,424.52	6,131.58	6,054.44	77.15	79.481		
3,700.00	3,519.68	3,483.68	3,483.68	19.55	59.84	94.03	-4,237.37	4,424.52	6,135.08	6,055.72	79.37	77.300		
3,800.00	3,608.29	3,572.29	3,572.29	20.40	61.39	94.41	-4,237.37	4,424.52	6,138.93	6,057.17	81.76	75.081		
3,900.00	3,696.90	3,660.90	3,660.90	21.26	62.93	94.79	-4,237.37	4,424.52	6,143.12	6,058.96	84.16	72.990		
4,000.00	3,785.51	3,749.51	3,749.51	22.13	64.48	95.18	-4,237.37	4,424.52	6,147.66	6,061.10	86.57	71.018		
4,100.00	3,874.12	3,838.12	3,838.12	23.00	66.03	95.56	-4,237.37	4,424.52	6,152.55	6,063.58	88.97	69.155		
4,200.00	3,962.73	3,926.73	3,926.73	23.87	67.57	95.94	-4,237.37	4,424.52	6,157.78	6,066.41	91.37	67.393		
4,300.00	4,051.34	4,015.34	4,015.34	24.74	69.12	96.32	-4,237.37	4,424.52	6,163.36	6,069.58	93.78	65.725		
4,400.00	4,139.95	4,103.95	4,103.95	25.62	70.67	96.70	-4,237.37	4,424.52	6,169.28	6,073.10	96.18	64.143		
4,500.00	4,228.56	4,207.44	4,192.56	26.49	72.47	97.08	-4,237.37	4,424.52	6,175.54	6,076.70	98.84	62.478		
4,600.00	4,317.17	4,281.17	4,281.17	27.37	73.76	97.46	-4,237.37	4,424.52	6,182.14	6,081.15	100.99	61.217		
4,700.00	4,405.78	4,369.78	4,369.78	28.25	75.31	97.83	-4,237.37	4,424.52	6,189.08	6,085.69	103.39	59.862		
4,800.00	4,494.39	4,458.39	4,458.39	29.13	76.85	98.21	-4,237.37	4,424.52	6,196.37	6,090.57	105.79	58.571		
4,900.00	4,583.00	4,547.00	4,547.00	30.02	78.40	98.59	-4,237.37	4,424.52	6,203.98	6,095.79	108.19	57.342		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	4,671.61	4,635.61	4,635.61	30.90	79.95	98.96	-4,237.37	4,424.52	6,211.94	6,101.35	110.59	56.170		
5,100.00	4,760.22	4,724.22	4,724.22	31.79	81.49	99.34	-4,237.37	4,424.52	6,220.23	6,107.24	112.99	55.051		
5,200.00	4,848.83	4,812.83	4,812.83	32.67	83.04	99.71	-4,237.37	4,424.52	6,228.86	6,113.47	115.39	53.983		
5,300.00	4,937.44	4,901.44	4,901.44	33.56	84.59	100.09	-4,237.37	4,424.52	6,237.81	6,120.03	117.78	52.962		
5,400.00	5,026.05	5,009.95	4,990.05	34.45	86.48	100.46	-4,237.37	4,424.52	6,247.10	6,126.58	120.52	51.835		
5,500.00	5,114.66	5,078.66	5,078.66	35.34	87.68	100.83	-4,237.37	4,424.52	6,256.72	6,134.16	122.56	51.049		
5,600.00	5,203.27	5,167.27	5,167.27	36.23	89.23	101.20	-4,237.37	4,424.52	6,266.66	6,141.71	124.95	50.154		
5,700.00	5,291.88	5,255.88	5,255.88	37.12	90.77	101.57	-4,237.37	4,424.52	6,276.94	6,149.60	127.33	49.295		
5,800.00	5,380.50	5,344.50	5,344.50	38.01	92.32	101.94	-4,237.37	4,424.52	6,287.53	6,157.82	129.72	48.471		
5,900.00	5,469.11	5,433.11	5,433.11	38.90	93.87	102.31	-4,237.37	4,424.52	6,298.45	6,166.36	132.10	47.681		
6,000.00	5,557.72	5,450.00	5,450.00	39.79	94.16	102.38	-4,237.37	4,424.52	6,310.10	6,176.90	133.20	47.373		
6,100.00	5,646.33	5,450.00	5,450.00	40.68	94.16	102.38	-4,237.37	4,424.52	6,323.29	6,189.31	133.97	47.198		
6,200.00	5,734.94	5,450.00	5,450.00	41.58	94.16	102.38	-4,237.37	4,424.52	6,338.03	6,203.31	134.72	47.046		
6,300.00	5,823.55	5,450.00	5,450.00	42.47	94.16	102.38	-4,237.37	4,424.52	6,354.30	6,218.87	135.44	46.917		
6,400.00	5,912.16	5,450.00	5,450.00	43.36	94.16	102.38	-4,237.37	4,424.52	6,372.11	6,235.99	136.12	46.812		
6,500.00	6,000.77	5,450.00	5,450.00	44.26	94.16	102.38	-4,237.37	4,424.52	6,391.43	6,254.65	136.78	46.728		
6,600.00	6,089.38	5,450.00	5,450.00	45.15	94.16	102.38	-4,237.37	4,424.52	6,412.25	6,274.85	137.41	46.667		
6,700.00	6,177.99	5,450.00	5,450.00	46.05	94.16	102.38	-4,237.37	4,424.52	6,434.56	6,296.56	138.00	46.627		
6,800.00	6,266.60	5,450.00	5,450.00	46.94	94.16	102.38	-4,237.37	4,424.52	6,458.34	6,319.77	138.57	46.607		
6,900.00	6,355.21	5,450.00	5,450.00	47.84	94.16	102.38	-4,237.37	4,424.52	6,483.58	6,344.47	139.11	46.609		
7,000.00	6,443.82	5,450.00	5,450.00	48.74	94.16	102.38	-4,237.37	4,424.52	6,510.25	6,370.63	139.62	46.630		
7,100.00	6,532.43	5,450.00	5,450.00	49.63	94.16	102.38	-4,237.37	4,424.52	6,538.35	6,398.25	140.10	46.670		
7,200.00	6,621.04	5,450.00	5,450.00	50.53	94.16	102.38	-4,237.37	4,424.52	6,567.84	6,427.29	140.55	46.730		
7,300.00	6,709.65	5,450.00	5,450.00	51.42	94.16	102.38	-4,237.37	4,424.52	6,598.72	6,457.75	140.98	46.808		
7,400.00	6,798.26	5,450.00	5,450.00	52.32	94.16	102.38	-4,237.37	4,424.52	6,630.97	6,489.60	141.37	46.904		
7,500.00	6,886.87	5,450.00	5,450.00	53.22	94.16	102.38	-4,237.37	4,424.52	6,664.56	6,522.81	141.75	47.018		
7,600.00	6,975.48	5,450.00	5,450.00	54.12	94.16	102.38	-4,237.37	4,424.52	6,699.47	6,557.38	142.09	47.149		
7,656.30	7,025.36	5,450.00	5,450.00	54.62	94.16	102.38	-4,237.37	4,424.52	6,719.70	6,577.43	142.27	47.230		
7,700.00	7,064.54	5,450.00	5,450.00	55.00	94.16	95.93	-4,237.37	4,424.52	6,734.30	6,591.90	142.40	47.291		
7,750.00	7,110.29	5,450.00	5,450.00	55.40	94.16	86.51	-4,237.37	4,424.52	6,747.83	6,605.31	142.52	47.348		
7,800.00	7,156.67	5,450.00	5,450.00	55.75	94.16	75.06	-4,237.37	4,424.52	6,757.90	6,615.30	142.60	47.392		
7,850.00	7,203.34	5,450.00	5,450.00	56.05	94.16	62.39	-4,237.37	4,424.52	6,764.44	6,621.80	142.64	47.424		
7,900.00	7,249.95	5,450.00	5,450.00	56.30	94.16	49.82	-4,237.37	4,424.52	6,767.42	6,624.79	142.64	47.445		
7,950.00	7,296.14	5,450.00	5,450.00	56.50	94.16	38.53	-4,237.37	4,424.52	6,766.83	6,624.23	142.60	47.455		
8,000.00	7,341.56	5,450.00	5,450.00	56.64	94.16	29.04	-4,237.37	4,424.52	6,762.66	6,620.14	142.51	47.453		
8,050.00	7,385.86	5,450.00	5,450.00	56.74	94.16	21.32	-4,237.37	4,424.52	6,754.93	6,612.54	142.39	47.439		
8,100.00	7,428.71	5,450.00	5,450.00	56.79	94.16	15.03	-4,237.37	4,424.52	6,743.70	6,601.47	142.23	47.413		
8,150.00	7,469.77	5,450.00	5,450.00	56.80	94.16	9.83	-4,237.37	4,424.52	6,729.04	6,587.00	142.04	47.373		
8,200.00	7,508.75	5,450.00	5,450.00	56.77	94.16	5.38	-4,237.37	4,424.52	6,711.03	6,569.20	141.82	47.319		
8,250.00	7,545.33	5,450.00	5,450.00	56.70	94.16	1.45	-4,237.37	4,424.52	6,689.78	6,548.20	141.58	47.251		
8,300.00	7,579.25	5,450.00	5,450.00	56.59	94.16	-2.17	-4,237.37	4,424.52	6,665.43	6,524.12	141.31	47.169		
8,350.00	7,610.24	5,450.00	5,450.00	56.45	94.16	-5.65	-4,237.37	4,424.52	6,638.13	6,497.11	141.02	47.072		
8,400.00	7,638.06	5,450.00	5,450.00	56.28	94.16	-9.14	-4,237.37	4,424.52	6,608.05	6,467.33	140.72	46.960		
8,450.00	7,662.52	5,450.00	5,450.00	56.09	94.16	-12.78	-4,237.37	4,424.52	6,575.38	6,434.98	140.40	46.832		
8,500.00	7,683.41	5,450.00	5,450.00	55.88	94.16	-16.70	-4,237.37	4,424.52	6,540.34	6,400.25	140.08	46.690		
8,550.00	7,700.59	5,450.00	5,450.00	55.64	94.16	-21.07	-4,237.37	4,424.52	6,503.15	6,363.39	139.76	46.532		
8,600.00	7,713.91	5,450.00	5,450.00	55.39	94.16	-26.04	-4,237.37	4,424.52	6,464.06	6,324.63	139.43	46.360		
8,650.00	7,723.29	5,450.00	5,450.00	55.14	94.16	-31.78	-4,237.37	4,424.52	6,423.35	6,284.23	139.12	46.173		
8,700.00	7,728.64	5,450.00	5,450.00	54.87	94.16	-38.43	-4,237.37	4,424.52	6,381.28	6,242.47	138.81	45.971		
8,740.83	7,730.00	5,450.00	5,450.00	54.65	94.16	-44.60	-4,237.37	4,424.52	6,346.14	6,207.57	138.57	45.797		
8,800.00	7,730.00	5,450.00	5,450.00	54.33	94.16	-44.60	-4,237.37	4,424.52	6,294.85	6,156.62	138.23	45.540		
8,900.00	7,730.00	5,450.00	5,450.00	53.82	94.16	-44.60	-4,237.37	4,424.52	6,208.49	6,070.85	137.64	45.106		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,730.00	5,450.00	5,450.00	53.33	94.16	-44.60	-4,237.37	4,424.52	6,122.54	5,985.49	137.04	44.676		
9,100.00	7,730.00	5,450.00	5,450.00	52.87	94.16	-44.60	-4,237.37	4,424.52	6,037.03	5,900.59	136.44	44.247		
9,200.00	7,730.00	5,450.00	5,450.00	52.44	94.16	-44.60	-4,237.37	4,424.52	5,951.96	5,816.14	135.83	43.820		
9,300.00	7,730.00	5,450.00	5,450.00	52.03	94.16	-44.60	-4,237.37	4,424.52	5,867.37	5,732.16	135.21	43.396		
9,400.00	7,730.00	5,450.00	5,450.00	51.65	94.16	-44.60	-4,237.37	4,424.52	5,783.27	5,648.69	134.58	42.973		
9,500.00	7,730.00	5,450.00	5,450.00	51.29	94.16	-44.60	-4,237.37	4,424.52	5,699.68	5,565.74	133.94	42.553		
9,600.00	7,730.00	5,450.00	5,450.00	50.95	94.16	-44.60	-4,237.37	4,424.52	5,616.63	5,483.33	133.31	42.134		
9,700.00	7,730.00	5,450.00	5,450.00	50.64	94.16	-44.60	-4,237.37	4,424.52	5,534.15	5,401.48	132.66	41.716		
9,800.00	7,730.00	5,450.00	5,450.00	50.35	94.16	-44.60	-4,237.37	4,424.52	5,452.24	5,320.23	132.02	41.300		
9,900.00	7,730.00	5,450.00	5,450.00	50.09	94.16	-44.60	-4,237.37	4,424.52	5,370.95	5,239.58	131.37	40.884		
10,000.00	7,730.00	5,450.00	5,450.00	49.86	94.16	-44.60	-4,237.37	4,424.52	5,290.30	5,159.58	130.72	40.469		
10,100.00	7,730.00	5,450.00	5,450.00	49.65	94.16	-44.60	-4,237.37	4,424.52	5,210.33	5,080.24	130.08	40.054		
10,200.00	7,730.00	5,450.00	5,450.00	49.48	94.16	-44.60	-4,237.37	4,424.52	5,131.05	5,001.61	129.44	39.639		
10,300.00	7,730.00	5,450.00	5,450.00	49.35	94.16	-44.60	-4,237.37	4,424.52	5,052.51	4,923.70	128.81	39.224		
10,400.00	7,730.00	5,450.00	5,450.00	49.27	94.16	-44.60	-4,237.37	4,424.52	4,974.74	4,846.55	128.19	38.807		
10,500.00	7,730.00	5,450.00	5,450.00	49.26	94.16	-44.60	-4,237.37	4,424.52	4,897.78	4,770.19	127.59	38.388		
10,600.00	7,730.00	5,450.00	5,450.00	49.32	94.16	-44.60	-4,237.37	4,424.52	4,821.66	4,694.66	127.00	37.966		
10,700.00	7,730.00	5,450.00	5,450.00	49.51	94.16	-44.60	-4,237.37	4,424.52	4,746.43	4,620.00	126.43	37.541		
10,800.00	7,730.00	5,450.00	5,450.00	49.83	94.16	-44.60	-4,237.37	4,424.52	4,672.13	4,546.24	125.89	37.113		
10,900.00	7,730.00	5,450.00	5,450.00	50.31	94.16	-44.60	-4,237.37	4,424.52	4,598.80	4,473.42	125.38	36.679		
11,000.00	7,730.00	5,450.00	5,450.00	50.96	94.16	-44.60	-4,237.37	4,424.52	4,526.49	4,401.59	124.90	36.240		
11,100.00	7,730.00	5,450.00	5,450.00	51.75	94.16	-44.60	-4,237.37	4,424.52	4,455.26	4,330.79	124.47	35.794		
11,200.00	7,730.00	5,450.00	5,450.00	52.66	94.16	-44.60	-4,237.37	4,424.52	4,385.15	4,261.07	124.08	35.342		
11,300.00	7,730.00	5,450.00	5,450.00	53.67	94.16	-44.60	-4,237.37	4,424.52	4,316.21	4,192.47	123.74	34.882		
11,400.00	7,730.00	5,450.00	5,450.00	54.75	94.16	-44.60	-4,237.37	4,424.52	4,248.51	4,125.06	123.46	34.413		
11,500.00	7,730.00	5,450.00	5,450.00	55.89	94.16	-44.60	-4,237.37	4,424.52	4,182.11	4,058.87	123.24	33.935		
11,600.00	7,730.00	5,450.00	5,450.00	57.07	94.16	-44.60	-4,237.37	4,424.52	4,117.07	3,993.98	123.09	33.449		
11,700.00	7,730.00	5,450.00	5,450.00	58.30	94.16	-44.60	-4,237.37	4,424.52	4,053.44	3,930.44	123.01	32.953		
11,800.00	7,730.00	5,450.00	5,450.00	59.55	94.16	-44.60	-4,237.37	4,424.52	3,991.32	3,868.31	123.01	32.447		
11,900.00	7,730.00	5,450.00	5,450.00	60.84	94.16	-44.60	-4,237.37	4,424.52	3,930.75	3,807.66	123.09	31.933		
12,000.00	7,730.00	5,450.00	5,450.00	62.15	94.16	-44.60	-4,237.37	4,424.52	3,871.82	3,748.55	123.26	31.411		
12,100.00	7,730.00	5,450.00	5,450.00	63.49	94.16	-44.60	-4,237.37	4,424.52	3,814.60	3,691.07	123.53	30.881		
12,200.00	7,730.00	5,450.00	5,450.00	64.85	94.16	-44.60	-4,237.37	4,424.52	3,759.17	3,635.28	123.88	30.345		
12,300.00	7,730.00	5,450.00	5,450.00	66.22	94.16	-44.60	-4,237.37	4,424.52	3,705.61	3,581.27	124.33	29.804		
12,400.00	7,730.00	5,450.00	5,450.00	67.62	94.16	-44.60	-4,237.37	4,424.52	3,654.00	3,529.11	124.88	29.259		
12,500.00	7,730.00	5,450.00	5,450.00	69.03	94.16	-44.60	-4,237.37	4,424.52	3,604.42	3,478.89	125.53	28.713		
12,600.00	7,730.00	5,450.00	5,450.00	70.45	94.16	-44.60	-4,237.37	4,424.52	3,556.97	3,430.69	126.28	28.167		
12,700.00	7,730.00	5,450.00	5,450.00	71.90	94.16	-44.60	-4,237.37	4,424.52	3,511.73	3,384.60	127.13	27.623		
12,800.00	7,730.00	5,450.00	5,450.00	73.35	94.16	-44.60	-4,237.37	4,424.52	3,468.78	3,340.70	128.08	27.084		
12,900.00	7,730.00	5,450.00	5,450.00	74.81	94.16	-44.60	-4,237.37	4,424.52	3,428.21	3,299.09	129.12	26.551		
13,000.00	7,730.00	5,450.00	5,450.00	76.29	94.16	-44.60	-4,237.37	4,424.52	3,390.10	3,259.84	130.26	26.026		
13,100.00	7,730.00	5,450.00	5,450.00	77.78	94.16	-44.60	-4,237.37	4,424.52	3,354.54	3,223.06	131.49	25.513		
13,200.00	7,730.00	5,450.00	5,450.00	79.28	94.16	-44.60	-4,237.37	4,424.52	3,321.62	3,188.81	132.80	25.011		
13,300.00	7,730.00	5,450.00	5,450.00	80.79	94.16	-44.60	-4,237.37	4,424.52	3,291.40	3,157.20	134.21	24.525		
13,400.00	7,730.00	5,450.00	5,450.00	82.31	94.16	-44.60	-4,237.37	4,424.52	3,263.97	3,128.28	135.69	24.054		
13,500.00	7,730.00	5,450.00	5,450.00	83.84	94.16	-44.60	-4,237.37	4,424.52	3,239.40	3,102.14	137.26	23.601		
13,600.00	7,730.00	5,450.00	5,450.00	85.37	94.16	-44.60	-4,237.37	4,424.52	3,217.74	3,078.86	138.89	23.168		
13,700.00	7,730.00	5,450.00	5,450.00	86.92	94.16	-44.60	-4,237.37	4,424.52	3,199.07	3,058.48	140.59	22.755		
13,800.00	7,730.00	5,450.00	5,450.00	88.47	94.16	-44.60	-4,237.37	4,424.52	3,183.43	3,041.08	142.35	22.363		
13,900.00	7,730.00	5,450.00	5,450.00	90.03	94.16	-44.60	-4,237.37	4,424.52	3,170.87	3,026.70	144.17	21.994		
14,000.00	7,730.00	5,450.00	5,450.00	91.59	94.16	-44.60	-4,237.37	4,424.52	3,161.43	3,015.40	146.03	21.649		
14,100.00	7,730.00	5,450.00	5,450.00	93.16	94.16	-44.60	-4,237.37	4,424.52	3,155.12	3,007.19	147.93	21.328		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,200.00	7,730.00	5,450.00	5,450.00	94.74	94.16	-44.60	-4,237.37	4,424.52	3,151.98	3,002.11	149.87	21.032		
14,249.09	7,730.00	5,450.00	5,450.00	95.52	94.16	-44.60	-4,237.37	4,424.52	3,151.60	3,000.77	150.83	20.896 CC		
14,300.00	7,730.00	5,450.00	5,450.00	96.33	94.16	-44.60	-4,237.37	4,424.52	3,152.01	3,000.18	151.83	20.761 ES		
14,400.00	7,730.00	5,450.00	5,450.00	97.92	94.16	-44.60	-4,237.37	4,424.52	3,155.21	3,001.41	153.80	20.515		
14,500.00	7,730.00	5,450.00	5,450.00	99.51	94.16	-44.60	-4,237.37	4,424.52	3,161.57	3,005.79	155.78	20.295		
14,600.00	7,730.00	5,450.00	5,450.00	101.11	94.16	-44.60	-4,237.37	4,424.52	3,171.07	3,013.32	157.76	20.101		
14,700.00	7,730.00	5,450.00	5,450.00	102.72	94.16	-44.60	-4,237.37	4,424.52	3,183.69	3,023.97	159.72	19.933		
14,800.00	7,730.00	5,450.00	5,450.00	104.33	94.16	-44.60	-4,237.37	4,424.52	3,199.39	3,037.72	161.67	19.790		
14,900.00	7,730.00	5,450.00	5,450.00	105.94	94.16	-44.60	-4,237.37	4,424.52	3,218.11	3,054.53	163.59	19.672		
15,000.00	7,730.00	5,450.00	5,450.00	107.56	94.16	-44.60	-4,237.37	4,424.52	3,239.82	3,074.35	165.47	19.579		
15,100.00	7,730.00	5,450.00	5,450.00	109.18	94.16	-44.60	-4,237.37	4,424.52	3,264.45	3,097.14	167.31	19.511		
15,200.00	7,730.00	5,450.00	5,450.00	110.81	94.16	-44.60	-4,237.37	4,424.52	3,291.93	3,122.83	169.10	19.467		
15,300.00	7,730.00	5,450.00	5,450.00	112.44	94.16	-44.60	-4,237.37	4,424.52	3,322.20	3,151.36	170.84	19.446 SF		
15,400.00	7,730.00	5,450.00	5,450.00	114.08	94.16	-44.60	-4,237.37	4,424.52	3,355.17	3,182.65	172.52	19.448		
15,500.00	7,730.00	5,450.00	5,450.00	115.72	94.16	-44.60	-4,237.37	4,424.52	3,390.77	3,216.64	174.13	19.472		
15,600.00	7,730.00	5,450.00	5,450.00	117.36	94.16	-44.60	-4,237.37	4,424.52	3,428.93	3,253.24	175.68	19.518		
15,700.00	7,730.00	5,450.00	5,450.00	119.00	94.16	-44.60	-4,237.37	4,424.52	3,469.54	3,292.38	177.16	19.584		
15,800.00	7,730.00	5,450.00	5,450.00	120.65	94.16	-44.60	-4,237.37	4,424.52	3,512.53	3,333.97	178.57	19.670		
15,900.00	7,730.00	5,450.00	5,450.00	122.30	94.16	-44.60	-4,237.37	4,424.52	3,557.82	3,377.91	179.91	19.776		
16,000.00	7,730.00	5,450.00	5,450.00	123.96	94.16	-44.60	-4,237.37	4,424.52	3,605.31	3,424.14	181.17	19.900		
16,100.00	7,730.00	5,450.00	5,450.00	125.61	94.16	-44.60	-4,237.37	4,424.52	3,654.92	3,472.55	182.37	20.041		
16,200.00	7,730.00	5,450.00	5,450.00	127.27	94.16	-44.60	-4,237.37	4,424.52	3,706.57	3,523.07	183.49	20.200		
16,300.00	7,730.00	5,450.00	5,450.00	128.94	94.16	-44.60	-4,237.37	4,424.52	3,760.16	3,575.61	184.55	20.375		
16,400.00	7,730.00	5,450.00	5,450.00	130.60	94.16	-44.60	-4,237.37	4,424.52	3,815.62	3,630.08	185.54	20.565		
16,500.00	7,730.00	5,450.00	5,450.00	132.27	94.16	-44.60	-4,237.37	4,424.52	3,872.88	3,686.41	186.47	20.770		
16,600.00	7,730.00	5,450.00	5,450.00	133.94	94.16	-44.60	-4,237.37	4,424.52	3,931.84	3,744.51	187.33	20.989		
16,700.00	7,730.00	5,450.00	5,450.00	135.61	94.16	-44.60	-4,237.37	4,424.52	3,992.43	3,804.30	188.13	21.221		
16,800.00	7,730.00	5,450.00	5,450.00	137.28	94.16	-44.60	-4,237.37	4,424.52	4,054.59	3,865.71	188.88	21.466		
16,900.00	7,730.00	5,450.00	5,450.00	138.96	94.16	-44.60	-4,237.37	4,424.52	4,118.24	3,928.67	189.57	21.724		
17,000.00	7,730.00	5,450.00	5,450.00	140.64	94.16	-44.60	-4,237.37	4,424.52	4,183.31	3,993.10	190.21	21.993		
17,100.00	7,730.00	5,450.00	5,450.00	142.32	94.16	-44.60	-4,237.37	4,424.52	4,249.74	4,058.93	190.80	22.273		
17,200.00	7,730.00	5,450.00	5,450.00	144.00	94.16	-44.60	-4,237.37	4,424.52	4,317.46	4,126.11	191.35	22.563		
17,300.00	7,730.00	5,450.00	5,450.00	145.69	94.16	-44.60	-4,237.37	4,424.52	4,386.41	4,194.57	191.85	22.864		
17,400.00	7,730.00	5,450.00	5,450.00	147.37	94.16	-44.60	-4,237.37	4,424.52	4,456.55	4,264.24	192.31	23.174		
17,500.00	7,730.00	5,450.00	5,450.00	149.06	94.16	-44.60	-4,237.37	4,424.52	4,527.80	4,335.08	192.73	23.493		
17,600.00	7,730.00	5,450.00	5,450.00	150.75	94.16	-44.60	-4,237.37	4,424.52	4,600.13	4,407.02	193.11	23.821		
17,700.00	7,730.00	5,450.00	5,450.00	152.44	94.16	-44.60	-4,237.37	4,424.52	4,673.47	4,480.01	193.46	24.157		
17,800.00	7,730.00	5,450.00	5,450.00	154.13	94.16	-44.60	-4,237.37	4,424.52	4,747.79	4,554.01	193.78	24.501		
17,900.00	7,730.00	5,450.00	5,450.00	155.83	94.16	-44.60	-4,237.37	4,424.52	4,823.04	4,628.97	194.07	24.852		
18,000.00	7,730.00	5,450.00	5,450.00	157.52	94.16	-44.60	-4,237.37	4,424.52	4,899.17	4,704.84	194.33	25.210		
18,100.00	7,730.00	5,450.00	5,450.00	159.22	94.16	-44.60	-4,237.37	4,424.52	4,976.15	4,781.59	194.57	25.575		
18,200.00	7,730.00	5,450.00	5,450.00	160.92	94.16	-44.60	-4,237.37	4,424.52	5,053.94	4,859.16	194.78	25.947		
18,300.00	7,730.00	5,450.00	5,450.00	162.62	94.16	-44.60	-4,237.37	4,424.52	5,132.49	4,937.52	194.97	26.325		
18,400.00	7,730.00	5,450.00	5,450.00	164.32	94.16	-44.60	-4,237.37	4,424.52	5,211.78	5,016.64	195.14	26.708		
18,426.22	7,730.00	5,450.00	5,450.00	164.76	94.16	-44.60	-4,237.37	4,424.52	5,232.69	5,037.51	195.18	26.810		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	141.49	-5,559.74	4,424.75	7,105.66					
100.00	100.00	65.00	65.00	0.13	0.51	141.49	-5,559.74	4,424.75	7,105.57	7,104.92	0.64	N/A		
200.00	200.00	165.00	165.00	0.49	1.92	141.49	-5,559.74	4,424.75	7,105.57	7,103.16	2.41	2,944.994		
300.00	300.00	265.00	265.00	0.85	3.67	141.49	-5,559.74	4,424.75	7,105.57	7,101.05	4.52	1,573.225		
400.00	400.00	365.00	365.00	1.21	5.41	141.49	-5,559.74	4,424.75	7,105.57	7,098.95	6.62	1,073.290		
500.00	500.00	465.00	465.00	1.57	7.16	141.49	-5,559.74	4,424.75	7,105.57	7,096.85	8.72	814.470		
600.00	600.00	565.00	565.00	1.93	8.90	141.49	-5,559.74	4,424.75	7,105.57	7,094.74	10.83	656.224		
700.00	700.00	665.00	665.00	2.29	10.65	141.49	-5,559.74	4,424.75	7,105.57	7,092.64	12.93	549.466		
800.00	800.00	765.00	765.00	2.64	12.39	141.49	-5,559.74	4,424.75	7,105.57	7,090.53	15.04	472.584		
900.00	900.00	865.00	865.00	3.00	14.14	141.49	-5,559.74	4,424.75	7,105.57	7,088.43	17.14	414.576		
1,000.00	1,000.00	965.00	965.00	3.36	15.88	141.49	-5,559.74	4,424.75	7,105.57	7,086.33	19.24	369.252		
1,100.00	1,100.00	1,065.00	1,065.00	3.72	17.63	141.49	-5,559.74	4,424.75	7,105.57	7,084.22	21.35	332.861		
1,200.00	1,200.00	1,165.00	1,165.00	4.08	19.37	141.49	-5,559.74	4,424.75	7,105.57	7,082.12	23.45	302.999		
1,300.00	1,299.98	1,264.98	1,264.98	4.43	21.12	94.38	-5,559.74	4,424.75	7,105.70	7,080.15	25.55	278.095		
1,400.00	1,399.84	1,364.84	1,364.84	4.79	22.86	94.41	-5,559.74	4,424.75	7,106.10	7,078.46	27.65	257.017		
1,500.00	1,499.45	1,464.45	1,464.45	5.15	24.60	94.47	-5,559.74	4,424.75	7,106.78	7,077.04	29.74	238.924		
1,600.00	1,598.70	1,563.70	1,563.70	5.51	26.33	94.54	-5,559.74	4,424.75	7,107.75	7,075.90	31.84	223.218		
1,700.00	1,697.47	1,662.47	1,662.47	5.89	28.06	94.64	-5,559.74	4,424.75	7,109.01	7,075.07	33.94	209.443		
1,800.00	1,795.62	1,760.62	1,760.62	6.28	29.77	94.76	-5,559.74	4,424.75	7,110.61	7,074.56	36.05	197.252		
1,900.00	1,893.06	1,858.06	1,858.06	6.69	31.47	94.90	-5,559.74	4,424.75	7,112.55	7,074.39	38.16	186.373		
2,000.00	1,989.64	1,954.64	1,954.64	7.13	33.16	95.05	-5,559.74	4,424.75	7,114.88	7,074.59	40.29	176.593		
2,100.00	2,085.27	2,050.27	2,050.27	7.61	34.82	95.22	-5,559.74	4,424.75	7,117.61	7,075.18	42.43	167.743		
2,200.00	2,179.82	2,144.82	2,144.82	8.12	36.47	95.41	-5,559.74	4,424.75	7,120.80	7,076.21	44.59	159.688		
2,300.00	2,273.17	2,238.17	2,238.17	8.67	38.10	95.60	-5,559.74	4,424.75	7,124.48	7,077.71	46.77	152.319		
2,400.00	2,365.21	2,330.21	2,330.21	9.27	39.71	95.80	-5,559.74	4,424.75	7,128.70	7,079.72	48.98	145.549		
2,500.00	2,455.84	2,420.84	2,420.84	9.92	41.29	96.02	-5,559.74	4,424.75	7,133.49	7,082.29	51.21	139.305		
2,580.62	2,527.80	2,507.20	2,492.80	10.49	42.80	96.19	-5,559.74	4,424.75	7,137.82	7,084.54	53.28	133.979		
2,600.00	2,544.97	2,509.97	2,509.97	10.63	42.85	96.25	-5,559.74	4,424.75	7,138.91	7,085.45	53.46	133.530		
2,700.00	2,633.58	2,601.42	2,598.58	11.37	44.44	96.58	-5,559.74	4,424.75	7,144.75	7,088.96	55.79	128.055		
2,800.00	2,722.19	2,687.19	2,687.19	12.13	45.94	96.91	-5,559.74	4,424.75	7,150.88	7,092.83	58.05	123.191		
2,900.00	2,810.80	2,775.80	2,775.80	12.91	47.49	97.23	-5,559.74	4,424.75	7,157.31	7,096.94	60.37	118.565		
3,000.00	2,899.41	2,864.41	2,864.41	13.71	49.03	97.56	-5,559.74	4,424.75	7,164.03	7,101.33	62.70	114.261		
3,100.00	2,988.02	2,953.02	2,953.02	14.52	50.58	97.89	-5,559.74	4,424.75	7,171.04	7,106.00	65.04	110.251		
3,200.00	3,076.63	3,041.63	3,041.63	15.34	52.13	98.21	-5,559.74	4,424.75	7,178.35	7,110.95	67.40	106.510		
3,300.00	3,165.24	3,130.24	3,130.24	16.16	53.67	98.54	-5,559.74	4,424.75	7,185.94	7,116.19	69.76	103.016		
3,400.00	3,253.85	3,218.85	3,218.85	17.00	55.22	98.86	-5,559.74	4,424.75	7,193.83	7,121.71	72.12	99.745		
3,500.00	3,342.46	3,307.46	3,307.46	17.84	56.77	99.19	-5,559.74	4,424.75	7,202.01	7,127.52	74.49	96.680		
3,600.00	3,431.07	3,403.93	3,396.07	18.69	58.45	99.51	-5,559.74	4,424.75	7,210.48	7,133.47	77.00	93.636		
3,700.00	3,519.68	3,484.68	3,484.68	19.55	59.86	99.83	-5,559.74	4,424.75	7,219.23	7,139.98	79.25	91.099		
3,800.00	3,608.29	3,573.29	3,573.29	20.40	61.41	100.16	-5,559.74	4,424.75	7,228.27	7,146.64	81.63	88.554		
3,900.00	3,696.90	3,661.90	3,661.90	21.26	62.95	100.48	-5,559.74	4,424.75	7,237.60	7,153.59	84.01	86.154		
4,000.00	3,785.51	3,750.51	3,750.51	22.13	64.50	100.80	-5,559.74	4,424.75	7,247.21	7,160.82	86.39	83.889		
4,100.00	3,874.12	3,839.12	3,839.12	23.00	66.05	101.12	-5,559.74	4,424.75	7,257.10	7,168.33	88.77	81.747		
4,200.00	3,962.73	3,927.73	3,927.73	23.87	67.59	101.44	-5,559.74	4,424.75	7,267.28	7,176.12	91.16	79.721		
4,300.00	4,051.34	4,016.34	4,016.34	24.74	69.14	101.76	-5,559.74	4,424.75	7,277.73	7,184.19	93.54	77.800		
4,400.00	4,139.95	4,104.95	4,104.95	25.62	70.68	102.07	-5,559.74	4,424.75	7,288.47	7,192.54	95.93	75.979		
4,500.00	4,228.56	4,206.44	4,193.56	26.49	72.46	102.39	-5,559.74	4,424.75	7,299.48	7,200.95	98.54	74.079		
4,600.00	4,317.17	4,282.17	4,282.17	27.37	73.78	102.71	-5,559.74	4,424.75	7,310.78	7,210.08	100.69	72.604		
4,700.00	4,405.78	4,370.78	4,370.78	28.25	75.32	103.02	-5,559.74	4,424.75	7,322.34	7,219.27	103.08	71.038		
4,800.00	4,494.39	4,459.39	4,459.39	29.13	76.87	103.34	-5,559.74	4,424.75	7,334.19	7,228.73	105.46	69.547		
4,900.00	4,583.00	4,548.00	4,548.00	30.02	78.42	103.65	-5,559.74	4,424.75	7,346.30	7,238.47	107.84	68.124		
5,000.00	4,671.61	4,636.61	4,636.61	30.90	79.96	103.97	-5,559.74	4,424.75	7,358.69	7,248.48	110.21	66.767		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
5,100.00	4,760.22	4,725.22	4,725.22	31.79	81.51	104.28	-5,559.74	4,424.75	7,371.35	7,258.76	112.59	65.470		
5,200.00	4,848.83	4,813.83	4,813.83	32.67	83.06	104.59	-5,559.74	4,424.75	7,384.28	7,269.31	114.97	64.231		
5,300.00	4,937.44	4,902.44	4,902.44	33.56	84.60	104.90	-5,559.74	4,424.75	7,397.48	7,280.14	117.34	63.044		
5,400.00	5,026.05	5,008.95	4,991.05	34.45	86.46	105.21	-5,559.74	4,424.75	7,410.94	7,290.92	120.02	61.747		
5,500.00	5,114.66	5,079.66	5,079.66	35.34	87.70	105.52	-5,559.74	4,424.75	7,424.66	7,302.59	122.08	60.820		
5,600.00	5,203.27	5,168.27	5,168.27	36.23	89.24	105.83	-5,559.74	4,424.75	7,438.66	7,314.21	124.44	59.776		
5,700.00	5,291.88	5,256.88	5,256.88	37.12	90.79	106.13	-5,559.74	4,424.75	7,452.91	7,326.10	126.81	58.774		
5,800.00	5,380.50	5,345.50	5,345.50	38.01	92.34	106.44	-5,559.74	4,424.75	7,467.42	7,338.25	129.17	57.812		
5,900.00	5,469.11	5,434.11	5,434.11	38.90	93.88	106.74	-5,559.74	4,424.75	7,482.19	7,350.67	131.53	56.887		
6,000.00	5,557.72	5,450.00	5,450.00	39.79	94.16	106.80	-5,559.74	4,424.75	7,497.58	7,364.98	132.59	56.546		
6,100.00	5,646.33	5,450.00	5,450.00	40.68	94.16	106.80	-5,559.74	4,424.75	7,514.24	7,380.89	133.36	56.347		
6,200.00	5,734.94	5,450.00	5,450.00	41.58	94.16	106.80	-5,559.74	4,424.75	7,532.20	7,398.10	134.10	56.170		
6,300.00	5,823.55	5,450.00	5,450.00	42.47	94.16	106.80	-5,559.74	4,424.75	7,551.43	7,416.62	134.82	56.013		
6,400.00	5,912.16	5,450.00	5,450.00	43.36	94.16	106.80	-5,559.74	4,424.75	7,571.94	7,436.43	135.51	55.876		
6,500.00	6,000.77	5,450.00	5,450.00	44.26	94.16	106.80	-5,559.74	4,424.75	7,593.71	7,457.52	136.19	55.758		
6,600.00	6,089.38	5,450.00	5,450.00	45.15	94.16	106.80	-5,559.74	4,424.75	7,616.74	7,479.89	136.84	55.660		
6,700.00	6,177.99	5,450.00	5,450.00	46.05	94.16	106.80	-5,559.74	4,424.75	7,641.00	7,503.52	137.48	55.581		
6,800.00	6,266.60	5,450.00	5,450.00	46.94	94.16	106.80	-5,559.74	4,424.75	7,666.49	7,528.40	138.09	55.520		
6,900.00	6,355.21	5,450.00	5,450.00	47.84	94.16	106.80	-5,559.74	4,424.75	7,693.19	7,554.51	138.68	55.476		
7,000.00	6,443.82	5,450.00	5,450.00	48.74	94.16	106.80	-5,559.74	4,424.75	7,721.10	7,581.85	139.24	55.451		
7,100.00	6,532.43	5,450.00	5,450.00	49.63	94.16	106.80	-5,559.74	4,424.75	7,750.19	7,610.40	139.79	55.442		
7,200.00	6,621.04	5,450.00	5,450.00	50.53	94.16	106.80	-5,559.74	4,424.75	7,780.47	7,640.15	140.31	55.450		
7,300.00	6,709.65	5,450.00	5,450.00	51.42	94.16	106.80	-5,559.74	4,424.75	7,811.90	7,671.08	140.82	55.475		
7,400.00	6,798.26	5,450.00	5,450.00	52.32	94.16	106.80	-5,559.74	4,424.75	7,844.49	7,703.19	141.30	55.515		
7,500.00	6,886.87	5,450.00	5,450.00	53.22	94.16	106.80	-5,559.74	4,424.75	7,878.21	7,736.44	141.77	55.571		
7,600.00	6,975.48	5,450.00	5,450.00	54.12	94.16	106.80	-5,559.74	4,424.75	7,913.05	7,770.84	142.21	55.643		
7,656.30	7,025.36	5,450.00	5,450.00	54.62	94.16	106.80	-5,559.74	4,424.75	7,933.15	7,790.70	142.45	55.690		
7,700.00	7,064.54	5,450.00	5,450.00	55.00	94.16	100.23	-5,559.74	4,424.75	7,947.55	7,804.92	142.63	55.722		
7,750.00	7,110.29	5,450.00	5,450.00	55.40	94.16	90.70	-5,559.74	4,424.75	7,960.68	7,817.87	142.81	55.745		
7,800.00	7,156.67	5,450.00	5,450.00	55.75	94.16	79.17	-5,559.74	4,424.75	7,970.16	7,827.21	142.95	55.753		
7,850.00	7,203.34	5,450.00	5,450.00	56.05	94.16	66.42	-5,559.74	4,424.75	7,975.93	7,832.86	143.07	55.748		
7,900.00	7,249.95	5,450.00	5,450.00	56.30	94.16	53.79	-5,559.74	4,424.75	7,977.97	7,834.81	143.15	55.731		
7,950.00	7,296.14	5,450.00	5,450.00	56.50	94.16	42.47	-5,559.74	4,424.75	7,976.24	7,833.05	143.20	55.702		
8,000.00	7,341.56	5,450.00	5,450.00	56.64	94.16	32.96	-5,559.74	4,424.75	7,970.77	7,827.57	143.20	55.660		
8,050.00	7,385.86	5,450.00	5,450.00	56.74	94.16	25.23	-5,559.74	4,424.75	7,961.60	7,818.42	143.18	55.607		
8,100.00	7,428.71	5,450.00	5,450.00	56.79	94.16	18.95	-5,559.74	4,424.75	7,948.76	7,805.65	143.12	55.541		
8,150.00	7,469.77	5,450.00	5,450.00	56.80	94.16	13.76	-5,559.74	4,424.75	7,932.36	7,789.33	143.03	55.461		
8,200.00	7,508.75	5,450.00	5,450.00	56.77	94.16	9.35	-5,559.74	4,424.75	7,912.48	7,769.58	142.91	55.368		
8,250.00	7,545.33	5,450.00	5,450.00	56.70	94.16	5.45	-5,559.74	4,424.75	7,889.26	7,746.50	142.76	55.261		
8,300.00	7,579.25	5,450.00	5,450.00	56.59	94.16	1.86	-5,559.74	4,424.75	7,862.85	7,720.25	142.60	55.140		
8,350.00	7,610.24	5,450.00	5,450.00	56.45	94.16	-1.60	-5,559.74	4,424.75	7,833.40	7,690.99	142.41	55.006		
8,400.00	7,638.06	5,450.00	5,450.00	56.28	94.16	-5.08	-5,559.74	4,424.75	7,801.12	7,658.92	142.21	54.858		
8,450.00	7,662.52	5,450.00	5,450.00	56.09	94.16	-8.75	-5,559.74	4,424.75	7,766.22	7,624.23	141.99	54.695		
8,500.00	7,683.41	5,450.00	5,450.00	55.88	94.16	-12.78	-5,559.74	4,424.75	7,728.93	7,587.16	141.76	54.520		
8,550.00	7,700.59	5,450.00	5,450.00	55.64	94.16	-17.38	-5,559.74	4,424.75	7,689.49	7,547.96	141.53	54.331		
8,600.00	7,713.91	5,450.00	5,450.00	55.39	94.16	-22.78	-5,559.74	4,424.75	7,648.19	7,506.89	141.29	54.129		
8,650.00	7,723.29	5,450.00	5,450.00	55.14	94.16	-29.27	-5,559.74	4,424.75	7,605.29	7,464.24	141.06	53.916		
8,700.00	7,728.64	5,450.00	5,450.00	54.87	94.16	-37.11	-5,559.74	4,424.75	7,561.12	7,420.29	140.83	53.691		
8,740.83	7,730.00	5,450.00	5,450.00	54.65	94.16	-44.65	-5,559.74	4,424.75	7,524.32	7,383.67	140.64	53.499		
8,800.00	7,730.00	5,450.00	5,450.00	54.33	94.16	-44.65	-5,559.74	4,424.75	7,470.65	7,330.26	140.38	53.217		
8,900.00	7,730.00	5,450.00	5,450.00	53.82	94.16	-44.65	-5,559.74	4,424.75	7,380.13	7,240.20	139.93	52.742		
9,000.00	7,730.00	5,450.00	5,450.00	53.33	94.16	-44.65	-5,559.74	4,424.75	7,289.85	7,150.38	139.47	52.268		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,100.00	7,730.00	5,450.00	5,450.00	52.87	94.16	-44.65	-5,559.74	4,424.75	7,199.84	7,060.83	139.01	51.794		
9,200.00	7,730.00	5,450.00	5,450.00	52.44	94.16	-44.65	-5,559.74	4,424.75	7,110.09	6,971.55	138.54	51.322		
9,300.00	7,730.00	5,450.00	5,450.00	52.03	94.16	-44.65	-5,559.74	4,424.75	7,020.62	6,882.55	138.06	50.850		
9,400.00	7,730.00	5,450.00	5,450.00	51.65	94.16	-44.65	-5,559.74	4,424.75	6,931.44	6,793.85	137.58	50.379		
9,500.00	7,730.00	5,450.00	5,450.00	51.29	94.16	-44.65	-5,559.74	4,424.75	6,842.55	6,705.45	137.10	49.909		
9,600.00	7,730.00	5,450.00	5,450.00	50.95	94.16	-44.65	-5,559.74	4,424.75	6,753.98	6,617.37	136.61	49.440		
9,700.00	7,730.00	5,450.00	5,450.00	50.64	94.16	-44.65	-5,559.74	4,424.75	6,665.73	6,529.61	136.12	48.970		
9,800.00	7,730.00	5,450.00	5,450.00	50.35	94.16	-44.65	-5,559.74	4,424.75	6,577.82	6,442.19	135.62	48.501		
9,900.00	7,730.00	5,450.00	5,450.00	50.09	94.16	-44.65	-5,559.74	4,424.75	6,490.25	6,355.13	135.12	48.032		
10,000.00	7,730.00	5,450.00	5,450.00	49.86	94.16	-44.65	-5,559.74	4,424.75	6,403.05	6,268.43	134.62	47.564		
10,100.00	7,730.00	5,450.00	5,450.00	49.65	94.16	-44.65	-5,559.74	4,424.75	6,316.23	6,182.11	134.12	47.094		
10,200.00	7,730.00	5,450.00	5,450.00	49.48	94.16	-44.65	-5,559.74	4,424.75	6,229.81	6,096.19	133.62	46.625		
10,300.00	7,730.00	5,450.00	5,450.00	49.35	94.16	-44.65	-5,559.74	4,424.75	6,143.79	6,010.68	133.11	46.154		
10,400.00	7,730.00	5,450.00	5,450.00	49.27	94.16	-44.65	-5,559.74	4,424.75	6,058.21	5,925.60	132.61	45.683		
10,500.00	7,730.00	5,450.00	5,450.00	49.26	94.16	-44.65	-5,559.74	4,424.75	5,973.08	5,840.96	132.12	45.210		
10,600.00	7,730.00	5,450.00	5,450.00	49.32	94.16	-44.65	-5,559.74	4,424.75	5,888.41	5,756.78	131.63	44.735		
10,700.00	7,730.00	5,450.00	5,450.00	49.51	94.16	-44.65	-5,559.74	4,424.75	5,804.23	5,673.08	131.14	44.259		
10,800.00	7,730.00	5,450.00	5,450.00	49.83	94.16	-44.65	-5,559.74	4,424.75	5,720.56	5,589.89	130.67	43.780		
10,900.00	7,730.00	5,450.00	5,450.00	50.31	94.16	-44.65	-5,559.74	4,424.75	5,637.42	5,507.22	130.20	43.298		
11,000.00	7,730.00	5,450.00	5,450.00	50.96	94.16	-44.65	-5,559.74	4,424.75	5,554.83	5,425.09	129.75	42.812		
11,100.00	7,730.00	5,450.00	5,450.00	51.75	94.16	-44.65	-5,559.74	4,424.75	5,472.83	5,343.52	129.31	42.323		
11,200.00	7,730.00	5,450.00	5,450.00	52.66	94.16	-44.65	-5,559.74	4,424.75	5,391.44	5,262.54	128.89	41.829		
11,300.00	7,730.00	5,450.00	5,450.00	53.67	94.16	-44.65	-5,559.74	4,424.75	5,310.68	5,182.18	128.50	41.329		
11,400.00	7,730.00	5,450.00	5,450.00	54.75	94.16	-44.65	-5,559.74	4,424.75	5,230.59	5,102.46	128.12	40.825		
11,500.00	7,730.00	5,450.00	5,450.00	55.89	94.16	-44.65	-5,559.74	4,424.75	5,151.19	5,023.41	127.78	40.314		
11,600.00	7,730.00	5,450.00	5,450.00	57.07	94.16	-44.65	-5,559.74	4,424.75	5,072.52	4,945.06	127.46	39.796		
11,700.00	7,730.00	5,450.00	5,450.00	58.30	94.16	-44.65	-5,559.74	4,424.75	4,994.61	4,867.43	127.18	39.271		
11,800.00	7,730.00	5,450.00	5,450.00	59.55	94.16	-44.65	-5,559.74	4,424.75	4,917.51	4,790.56	126.94	38.737		
11,900.00	7,730.00	5,450.00	5,450.00	60.84	94.16	-44.65	-5,559.74	4,424.75	4,841.24	4,714.49	126.75	38.196		
12,000.00	7,730.00	5,450.00	5,450.00	62.15	94.16	-44.65	-5,559.74	4,424.75	4,765.85	4,639.25	126.60	37.646		
12,100.00	7,730.00	5,450.00	5,450.00	63.49	94.16	-44.65	-5,559.74	4,424.75	4,691.38	4,564.88	126.50	37.086		
12,200.00	7,730.00	5,450.00	5,450.00	64.85	94.16	-44.65	-5,559.74	4,424.75	4,617.87	4,491.41	126.46	36.518		
12,300.00	7,730.00	5,450.00	5,450.00	66.22	94.16	-44.65	-5,559.74	4,424.75	4,545.37	4,418.90	126.47	35.940		
12,400.00	7,730.00	5,450.00	5,450.00	67.62	94.16	-44.65	-5,559.74	4,424.75	4,473.94	4,347.39	126.55	35.353		
12,500.00	7,730.00	5,450.00	5,450.00	69.03	94.16	-44.65	-5,559.74	4,424.75	4,403.62	4,276.92	126.70	34.757		
12,600.00	7,730.00	5,450.00	5,450.00	70.45	94.16	-44.65	-5,559.74	4,424.75	4,334.46	4,207.55	126.92	34.152		
12,700.00	7,730.00	5,450.00	5,450.00	71.90	94.16	-44.65	-5,559.74	4,424.75	4,266.53	4,139.32	127.21	33.540		
12,800.00	7,730.00	5,450.00	5,450.00	73.35	94.16	-44.65	-5,559.74	4,424.75	4,199.88	4,072.30	127.58	32.920		
12,900.00	7,730.00	5,450.00	5,450.00	74.81	94.16	-44.65	-5,559.74	4,424.75	4,134.57	4,006.55	128.02	32.295		
13,000.00	7,730.00	5,450.00	5,450.00	76.29	94.16	-44.65	-5,559.74	4,424.75	4,070.68	3,942.12	128.55	31.665		
13,100.00	7,730.00	5,450.00	5,450.00	77.78	94.16	-44.65	-5,559.74	4,424.75	4,008.26	3,879.09	129.17	31.032		
13,200.00	7,730.00	5,450.00	5,450.00	79.28	94.16	-44.65	-5,559.74	4,424.75	3,947.38	3,817.52	129.86	30.396		
13,300.00	7,730.00	5,450.00	5,450.00	80.79	94.16	-44.65	-5,559.74	4,424.75	3,888.13	3,757.48	130.65	29.761		
13,400.00	7,730.00	5,450.00	5,450.00	82.31	94.16	-44.65	-5,559.74	4,424.75	3,830.57	3,699.05	131.51	29.127		
13,500.00	7,730.00	5,450.00	5,450.00	83.84	94.16	-44.65	-5,559.74	4,424.75	3,774.78	3,642.31	132.47	28.496		
13,600.00	7,730.00	5,450.00	5,450.00	85.37	94.16	-44.65	-5,559.74	4,424.75	3,720.84	3,587.34	133.50	27.871		
13,700.00	7,730.00	5,450.00	5,450.00	86.92	94.16	-44.65	-5,559.74	4,424.75	3,668.84	3,534.21	134.63	27.252		
13,800.00	7,730.00	5,450.00	5,450.00	88.47	94.16	-44.65	-5,559.74	4,424.75	3,618.85	3,483.02	135.83	26.642		
13,900.00	7,730.00	5,450.00	5,450.00	90.03	94.16	-44.65	-5,559.74	4,424.75	3,570.97	3,433.85	137.12	26.043		
14,000.00	7,730.00	5,450.00	5,450.00	91.59	94.16	-44.65	-5,559.74	4,424.75	3,525.27	3,386.79	138.48	25.457		
14,100.00	7,730.00	5,450.00	5,450.00	93.16	94.16	-44.65	-5,559.74	4,424.75	3,481.84	3,341.92	139.92	24.885		
14,200.00	7,730.00	5,450.00	5,450.00	94.74	94.16	-44.65	-5,559.74	4,424.75	3,440.78	3,299.34	141.43	24.328		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
14,300.00	7,730.00	5,450.00	5,450.00	96.33	94.16	-44.65	-5,559.74	4,424.75	3,402.15	3,259.14	143.02	23.788		
14,400.00	7,730.00	5,450.00	5,450.00	97.92	94.16	-44.65	-5,559.74	4,424.75	3,366.06	3,221.39	144.67	23.267		
14,500.00	7,730.00	5,450.00	5,450.00	99.51	94.16	-44.65	-5,559.74	4,424.75	3,332.58	3,186.19	146.38	22.766		
14,600.00	7,730.00	5,450.00	5,450.00	101.11	94.16	-44.65	-5,559.74	4,424.75	3,301.78	3,153.63	148.16	22.286		
14,700.00	7,730.00	5,450.00	5,450.00	102.72	94.16	-44.65	-5,559.74	4,424.75	3,273.76	3,123.77	149.99	21.827		
14,800.00	7,730.00	5,450.00	5,450.00	104.33	94.16	-44.65	-5,559.74	4,424.75	3,248.57	3,096.70	151.86	21.391		
14,900.00	7,730.00	5,450.00	5,450.00	105.94	94.16	-44.65	-5,559.74	4,424.75	3,226.28	3,072.50	153.79	20.979		
15,000.00	7,730.00	5,450.00	5,450.00	107.56	94.16	-44.65	-5,559.74	4,424.75	3,206.96	3,051.21	155.75	20.590		
15,100.00	7,730.00	5,450.00	5,450.00	109.18	94.16	-44.65	-5,559.74	4,424.75	3,190.66	3,032.92	157.75	20.226		
15,200.00	7,730.00	5,450.00	5,450.00	110.81	94.16	-44.65	-5,559.74	4,424.75	3,177.43	3,017.66	159.77	19.887		
15,300.00	7,730.00	5,450.00	5,450.00	112.44	94.16	-44.65	-5,559.74	4,424.75	3,167.29	3,005.48	161.81	19.574		
15,400.00	7,730.00	5,450.00	5,450.00	114.08	94.16	-44.65	-5,559.74	4,424.75	3,160.30	2,996.42	163.87	19.285		
15,500.00	7,730.00	5,450.00	5,450.00	115.72	94.16	-44.65	-5,559.74	4,424.75	3,156.45	2,990.52	165.93	19.022		
15,571.45	7,730.00	5,450.00	5,450.00	116.89	94.16	-44.65	-5,559.74	4,424.75	3,155.64	2,988.23	167.41	18.850 CC		
15,600.00	7,730.00	5,450.00	5,450.00	117.36	94.16	-44.65	-5,559.74	4,424.75	3,155.77	2,987.78	168.00	18.785 ES		
15,700.00	7,730.00	5,450.00	5,450.00	119.00	94.16	-44.65	-5,559.74	4,424.75	3,158.26	2,988.21	170.05	18.573		
15,800.00	7,730.00	5,450.00	5,450.00	120.65	94.16	-44.65	-5,559.74	4,424.75	3,163.91	2,991.83	172.08	18.386		
15,900.00	7,730.00	5,450.00	5,450.00	122.30	94.16	-44.65	-5,559.74	4,424.75	3,172.70	2,998.61	174.09	18.225		
16,000.00	7,730.00	5,450.00	5,450.00	123.96	94.16	-44.65	-5,559.74	4,424.75	3,184.61	3,008.54	176.06	18.088		
16,100.00	7,730.00	5,450.00	5,450.00	125.61	94.16	-44.65	-5,559.74	4,424.75	3,199.60	3,021.60	178.00	17.975		
16,200.00	7,730.00	5,450.00	5,450.00	127.27	94.16	-44.65	-5,559.74	4,424.75	3,217.63	3,037.75	179.89	17.887		
16,300.00	7,730.00	5,450.00	5,450.00	128.94	94.16	-44.65	-5,559.74	4,424.75	3,238.65	3,056.93	181.72	17.822		
16,400.00	7,730.00	5,450.00	5,450.00	130.60	94.16	-44.65	-5,559.74	4,424.75	3,262.60	3,079.11	183.49	17.780		
16,500.00	7,730.00	5,450.00	5,450.00	132.27	94.16	-44.65	-5,559.74	4,424.75	3,289.42	3,104.22	185.20	17.761 SF		
16,600.00	7,730.00	5,450.00	5,450.00	133.94	94.16	-44.65	-5,559.74	4,424.75	3,319.04	3,132.20	186.84	17.764		
16,700.00	7,730.00	5,450.00	5,450.00	135.61	94.16	-44.65	-5,559.74	4,424.75	3,351.37	3,162.97	188.41	17.788		
16,800.00	7,730.00	5,450.00	5,450.00	137.28	94.16	-44.65	-5,559.74	4,424.75	3,386.36	3,196.46	189.90	17.833		
16,900.00	7,730.00	5,450.00	5,450.00	138.96	94.16	-44.65	-5,559.74	4,424.75	3,423.91	3,232.60	191.31	17.897		
17,000.00	7,730.00	5,450.00	5,450.00	140.64	94.16	-44.65	-5,559.74	4,424.75	3,463.93	3,271.29	192.64	17.981		
17,100.00	7,730.00	5,450.00	5,450.00	142.32	94.16	-44.65	-5,559.74	4,424.75	3,506.36	3,312.46	193.90	18.084		
17,200.00	7,730.00	5,450.00	5,450.00	144.00	94.16	-44.65	-5,559.74	4,424.75	3,551.09	3,356.02	195.07	18.204		
17,300.00	7,730.00	5,450.00	5,450.00	145.69	94.16	-44.65	-5,559.74	4,424.75	3,598.05	3,401.88	196.17	18.341		
17,400.00	7,730.00	5,450.00	5,450.00	147.37	94.16	-44.65	-5,559.74	4,424.75	3,647.15	3,449.96	197.19	18.495		
17,500.00	7,730.00	5,450.00	5,450.00	149.06	94.16	-44.65	-5,559.74	4,424.75	3,698.30	3,500.16	198.14	18.665		
17,600.00	7,730.00	5,450.00	5,450.00	150.75	94.16	-44.65	-5,559.74	4,424.75	3,751.41	3,552.40	199.01	18.850		
17,700.00	7,730.00	5,450.00	5,450.00	152.44	94.16	-44.65	-5,559.74	4,424.75	3,806.42	3,606.60	199.82	19.049		
17,800.00	7,730.00	5,450.00	5,450.00	154.13	94.16	-44.65	-5,559.74	4,424.75	3,863.23	3,662.67	200.56	19.263		
17,900.00	7,730.00	5,450.00	5,450.00	155.83	94.16	-44.65	-5,559.74	4,424.75	3,921.77	3,720.54	201.23	19.489		
18,000.00	7,730.00	5,450.00	5,450.00	157.52	94.16	-44.65	-5,559.74	4,424.75	3,981.95	3,780.11	201.84	19.728		
18,100.00	7,730.00	5,450.00	5,450.00	159.22	94.16	-44.65	-5,559.74	4,424.75	4,043.72	3,841.32	202.40	19.979		
18,200.00	7,730.00	5,450.00	5,450.00	160.92	94.16	-44.65	-5,559.74	4,424.75	4,106.99	3,904.09	202.90	20.242		
18,300.00	7,730.00	5,450.00	5,450.00	162.62	94.16	-44.65	-5,559.74	4,424.75	4,171.70	3,968.35	203.35	20.515		
18,400.00	7,730.00	5,450.00	5,450.00	164.32	94.16	-44.65	-5,559.74	4,424.75	4,237.78	4,034.03	203.75	20.799		
18,426.22	7,730.00	5,450.00	5,450.00	164.76	94.16	-44.65	-5,559.74	4,424.75	4,255.33	4,051.48	203.85	20.875		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	126.42	-4,237.10	5,743.55	7,137.61					
100.00	100.00	37.00	37.00	0.13	0.30	126.42	-4,237.10	5,743.55	7,137.33	7,136.90	0.43	N/A		
200.00	200.00	137.00	137.00	0.49	1.45	126.42	-4,237.10	5,743.55	7,137.33	7,135.39	1.94	3,676.149		
300.00	300.00	237.00	237.00	0.85	3.19	126.42	-4,237.10	5,743.55	7,137.33	7,133.28	4.05	1,764.340		
400.00	400.00	337.00	337.00	1.21	4.94	126.42	-4,237.10	5,743.55	7,137.33	7,131.18	6.15	1,160.706		
500.00	500.00	437.00	437.00	1.57	6.68	126.42	-4,237.10	5,743.55	7,137.33	7,129.07	8.25	864.824		
600.00	600.00	537.00	537.00	1.93	8.43	126.42	-4,237.10	5,743.55	7,137.33	7,126.97	10.36	689.149		
700.00	700.00	637.00	637.00	2.29	10.18	126.42	-4,237.10	5,743.55	7,137.33	7,124.87	12.46	572.795		
800.00	800.00	737.00	737.00	2.64	11.92	126.42	-4,237.10	5,743.55	7,137.33	7,122.76	14.56	490.055		
900.00	900.00	837.00	837.00	3.00	13.67	126.42	-4,237.10	5,743.55	7,137.33	7,120.66	16.67	428.202		
1,000.00	1,000.00	937.00	937.00	3.36	15.41	126.42	-4,237.10	5,743.55	7,137.33	7,118.56	18.77	380.213		
1,100.00	1,100.00	1,037.00	1,037.00	3.72	17.16	126.42	-4,237.10	5,743.55	7,137.33	7,116.45	20.88	341.896		
1,200.00	1,200.00	1,137.00	1,137.00	4.08	18.90	126.42	-4,237.10	5,743.55	7,137.33	7,114.35	22.98	310.595		
1,300.00	1,299.98	1,236.98	1,236.98	4.43	20.65	79.32	-4,237.10	5,743.55	7,137.00	7,111.92	25.08	284.570		
1,400.00	1,399.84	1,336.84	1,336.84	4.79	22.39	79.38	-4,237.10	5,743.55	7,136.03	7,108.86	27.18	262.582		
1,500.00	1,499.45	1,436.45	1,436.45	5.15	24.13	79.48	-4,237.10	5,743.55	7,134.43	7,105.16	29.27	243.728		
1,600.00	1,598.70	1,535.70	1,535.70	5.51	25.86	79.62	-4,237.10	5,743.55	7,132.20	7,100.83	31.37	227.372		
1,700.00	1,697.47	1,634.47	1,634.47	5.89	27.58	79.79	-4,237.10	5,743.55	7,129.37	7,095.91	33.47	213.032		
1,800.00	1,795.62	1,732.62	1,732.62	6.28	29.30	80.01	-4,237.10	5,743.55	7,125.97	7,090.40	35.57	200.338		
1,900.00	1,893.06	1,830.06	1,830.06	6.69	31.00	80.26	-4,237.10	5,743.55	7,122.01	7,084.33	37.68	189.007		
2,000.00	1,989.64	1,926.64	1,926.64	7.13	32.68	80.55	-4,237.10	5,743.55	7,117.55	7,077.75	39.80	178.814		
2,100.00	2,085.27	2,022.27	2,022.27	7.61	34.35	80.87	-4,237.10	5,743.55	7,112.62	7,070.68	41.94	169.581		
2,200.00	2,179.82	2,116.82	2,116.82	8.12	36.00	81.22	-4,237.10	5,743.55	7,107.27	7,063.17	44.10	161.168		
2,300.00	2,273.17	2,210.17	2,210.17	8.67	37.63	81.60	-4,237.10	5,743.55	7,101.54	7,055.26	46.28	153.461		
2,400.00	2,365.21	2,302.21	2,302.21	9.27	39.24	82.01	-4,237.10	5,743.55	7,095.50	7,047.02	48.48	146.367		
2,500.00	2,455.84	2,407.16	2,392.84	9.92	41.07	82.44	-4,237.10	5,743.55	7,089.20	7,038.25	50.95	139.127		
2,580.62	2,527.80	2,464.80	2,464.80	10.49	42.08	82.80	-4,237.10	5,743.55	7,083.98	7,031.46	52.52	134.879		
2,600.00	2,544.97	2,481.97	2,481.97	10.63	42.38	82.87	-4,237.10	5,743.55	7,082.72	7,029.76	52.96	133.738		
2,700.00	2,633.58	2,570.58	2,570.58	11.37	43.92	83.20	-4,237.10	5,743.55	7,076.39	7,021.14	55.24	128.095		
2,800.00	2,722.19	2,659.19	2,659.19	12.13	45.47	83.53	-4,237.10	5,743.55	7,070.35	7,012.80	57.55	122.856		
2,900.00	2,810.80	2,747.80	2,747.80	12.91	47.02	83.86	-4,237.10	5,743.55	7,064.62	7,004.74	59.88	117.989		
3,000.00	2,899.41	2,836.41	2,836.41	13.71	48.56	84.19	-4,237.10	5,743.55	7,059.18	6,996.97	62.22	113.460		
3,100.00	2,988.02	2,925.02	2,925.02	14.52	50.11	84.52	-4,237.10	5,743.55	7,054.05	6,989.48	64.57	109.242		
3,200.00	3,076.63	3,013.63	3,013.63	15.34	51.66	84.86	-4,237.10	5,743.55	7,049.21	6,982.27	66.94	105.308		
3,300.00	3,165.24	3,102.24	3,102.24	16.16	53.20	85.19	-4,237.10	5,743.55	7,044.68	6,975.37	69.32	101.632		
3,400.00	3,253.85	3,209.15	3,190.85	17.00	55.07	85.52	-4,237.10	5,743.55	7,040.45	6,968.43	72.02	97.757		
3,500.00	3,342.46	3,279.46	3,279.46	17.84	56.29	85.86	-4,237.10	5,743.55	7,036.52	6,962.43	74.09	94.970		
3,600.00	3,431.07	3,368.07	3,368.07	18.69	57.84	86.19	-4,237.10	5,743.55	7,032.90	6,956.41	76.49	91.945		
3,700.00	3,519.68	3,456.68	3,456.68	19.55	59.39	86.53	-4,237.10	5,743.55	7,029.58	6,950.68	78.89	89.101		
3,800.00	3,608.29	3,545.29	3,545.29	20.40	60.93	86.86	-4,237.10	5,743.55	7,026.56	6,945.26	81.30	86.425		
3,900.00	3,696.90	3,633.90	3,633.90	21.26	62.48	87.19	-4,237.10	5,743.55	7,023.85	6,940.14	83.71	83.903		
4,000.00	3,785.51	3,722.51	3,722.51	22.13	64.03	87.53	-4,237.10	5,743.55	7,021.44	6,935.31	86.13	81.522		
4,100.00	3,874.12	3,811.12	3,811.12	23.00	65.57	87.86	-4,237.10	5,743.55	7,019.34	6,930.79	88.55	79.271		
4,200.00	3,962.73	3,900.27	3,899.73	23.87	67.13	88.20	-4,237.10	5,743.55	7,017.55	6,926.57	90.98	77.134		
4,300.00	4,051.34	3,988.34	3,988.34	24.74	68.67	88.53	-4,237.10	5,743.55	7,016.05	6,922.66	93.39	75.124		
4,400.00	4,139.95	4,076.95	4,076.95	25.62	70.21	88.87	-4,237.10	5,743.55	7,014.87	6,919.05	95.82	73.210		
4,500.00	4,228.56	4,165.56	4,165.56	26.49	71.76	89.21	-4,237.10	5,743.55	7,013.99	6,915.75	98.25	71.393		
4,600.00	4,317.17	4,254.17	4,254.17	27.37	73.31	89.54	-4,237.10	5,743.55	7,013.42	6,912.75	100.67	69.665		
4,700.00	4,405.78	4,342.78	4,342.78	28.25	74.85	89.88	-4,237.10	5,743.55	7,013.15	6,910.05	103.10	68.021		
4,736.84	4,438.43	4,375.43	4,375.43	28.58	75.42	90.00	-4,237.10	5,743.55	7,013.13	6,909.14	104.00	67.436		
4,800.00	4,494.39	4,431.39	4,431.39	29.13	76.40	90.21	-4,237.10	5,743.55	7,013.19	6,907.66	105.53	66.456		
4,900.00	4,583.00	4,520.00	4,520.00	30.02	77.95	90.55	-4,237.10	5,743.55	7,013.54	6,905.58	107.96	64.963		

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 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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	4,671.61	4,608.61	4,608.61	30.90	79.49	90.88	-4,237.10	5,743.55	7,014.19	6,903.80	110.39	63.538		
5,100.00	4,760.22	4,702.78	4,697.22	31.79	81.14	91.22	-4,237.10	5,743.55	7,015.15	6,902.23	112.92	62.124		
5,200.00	4,848.83	4,785.83	4,785.83	32.67	82.59	91.55	-4,237.10	5,743.55	7,016.42	6,901.16	115.26	60.877		
5,300.00	4,937.44	4,874.44	4,874.44	33.56	84.13	91.89	-4,237.10	5,743.55	7,017.99	6,900.30	117.69	59.633		
5,400.00	5,026.05	4,963.05	4,963.05	34.45	85.68	92.22	-4,237.10	5,743.55	7,019.87	6,899.75	120.12	58.442		
5,500.00	5,114.66	5,051.66	5,051.66	35.34	87.23	92.56	-4,237.10	5,743.55	7,022.05	6,899.50	122.55	57.301		
5,600.00	5,203.27	5,140.27	5,140.27	36.23	88.77	92.89	-4,237.10	5,743.55	7,024.53	6,899.56	124.98	56.207		
5,700.00	5,291.88	5,228.88	5,228.88	37.12	90.32	93.23	-4,237.10	5,743.55	7,027.33	6,899.92	127.40	55.158		
5,800.00	5,380.50	5,317.50	5,317.50	38.01	91.87	93.56	-4,237.10	5,743.55	7,030.42	6,900.59	129.83	54.150		
5,900.00	5,469.11	5,406.11	5,406.11	38.90	93.41	93.90	-4,237.10	5,743.55	7,033.82	6,901.57	132.26	53.182		
6,000.00	5,557.72	5,494.00	5,494.00	39.79	93.31	93.87	-4,237.10	5,743.55	7,038.16	6,905.15	133.01	52.914		
6,100.00	5,646.33	5,494.00	5,494.00	40.68	93.31	93.87	-4,237.10	5,743.55	7,043.92	6,910.07	133.85	52.625		
6,200.00	5,734.94	5,494.00	5,494.00	41.58	93.31	93.87	-4,237.10	5,743.55	7,051.09	6,916.42	134.67	52.360		
6,300.00	5,823.55	5,494.00	5,494.00	42.47	93.31	93.87	-4,237.10	5,743.55	7,059.67	6,924.21	135.46	52.117		
6,400.00	5,912.16	5,494.00	5,494.00	43.36	93.31	93.87	-4,237.10	5,743.55	7,069.65	6,933.43	136.23	51.896		
6,500.00	6,000.77	5,494.00	5,494.00	44.26	93.31	93.87	-4,237.10	5,743.55	7,081.03	6,944.06	136.97	51.697		
6,600.00	6,089.38	5,494.00	5,494.00	45.15	93.31	93.87	-4,237.10	5,743.55	7,093.81	6,956.12	137.69	51.519		
6,700.00	6,177.99	5,494.00	5,494.00	46.05	93.31	93.87	-4,237.10	5,743.55	7,107.96	6,969.58	138.39	51.362		
6,800.00	6,266.60	5,494.00	5,494.00	46.94	93.31	93.87	-4,237.10	5,743.55	7,123.50	6,984.44	139.06	51.226		
6,900.00	6,355.21	5,494.00	5,494.00	47.84	93.31	93.87	-4,237.10	5,743.55	7,140.40	7,000.69	139.71	51.109		
7,000.00	6,443.82	5,494.00	5,494.00	48.74	93.31	93.87	-4,237.10	5,743.55	7,158.65	7,018.32	140.33	51.012		
7,100.00	6,532.43	5,494.00	5,494.00	49.63	93.31	93.87	-4,237.10	5,743.55	7,178.26	7,037.33	140.93	50.934		
7,200.00	6,621.04	5,494.00	5,494.00	50.53	93.31	93.87	-4,237.10	5,743.55	7,199.20	7,057.69	141.51	50.875		
7,300.00	6,709.65	5,494.00	5,494.00	51.42	93.31	93.87	-4,237.10	5,743.55	7,221.46	7,079.40	142.06	50.835		
7,400.00	6,798.26	5,494.00	5,494.00	52.32	93.31	93.87	-4,237.10	5,743.55	7,245.04	7,102.45	142.59	50.812		
7,500.00	6,886.87	5,494.00	5,494.00	53.22	93.31	93.87	-4,237.10	5,743.55	7,269.91	7,126.82	143.09	50.807		
7,600.00	6,975.48	5,494.00	5,494.00	54.12	93.31	93.87	-4,237.10	5,743.55	7,296.07	7,152.50	143.57	50.819		
7,656.30	7,025.36	5,494.00	5,494.00	54.62	93.31	93.87	-4,237.10	5,743.55	7,311.36	7,167.53	143.83	50.834		
7,700.00	7,064.54	5,494.00	5,494.00	55.00	93.31	87.37	-4,237.10	5,743.55	7,322.20	7,178.18	144.01	50.844		
7,750.00	7,110.29	5,494.00	5,494.00	55.40	93.31	77.88	-4,237.10	5,743.55	7,331.63	7,187.45	144.19	50.849		
7,800.00	7,156.67	5,494.00	5,494.00	55.75	93.31	66.34	-4,237.10	5,743.55	7,337.86	7,193.54	144.32	50.846		
7,850.00	7,203.34	5,494.00	5,494.00	56.05	93.31	53.56	-4,237.10	5,743.55	7,340.83	7,196.43	144.40	50.837		
7,900.00	7,249.95	5,494.00	5,494.00	56.30	93.31	40.84	-4,237.10	5,743.55	7,340.52	7,196.09	144.43	50.823		
7,950.00	7,296.14	5,494.00	5,494.00	56.50	93.31	29.37	-4,237.10	5,743.55	7,336.95	7,192.53	144.42	50.804		
8,000.00	7,341.56	5,494.00	5,494.00	56.64	93.31	19.68	-4,237.10	5,743.55	7,330.13	7,185.78	144.36	50.778		
8,050.00	7,385.86	5,494.00	5,494.00	56.74	93.31	11.70	-4,237.10	5,743.55	7,320.11	7,175.86	144.25	50.746		
8,100.00	7,428.71	5,494.00	5,494.00	56.79	93.31	5.12	-4,237.10	5,743.55	7,306.94	7,162.84	144.10	50.707		
8,150.00	7,469.77	5,494.00	5,494.00	56.80	93.31	-0.42	-4,237.10	5,743.55	7,290.72	7,146.80	143.92	50.659		
8,200.00	7,508.75	5,494.00	5,494.00	56.77	93.31	-5.25	-4,237.10	5,743.55	7,271.54	7,127.84	143.70	50.604		
8,250.00	7,545.33	5,494.00	5,494.00	56.70	93.31	-9.62	-4,237.10	5,743.55	7,249.53	7,106.08	143.44	50.539		
8,300.00	7,579.25	5,494.00	5,494.00	56.59	93.31	-13.72	-4,237.10	5,743.55	7,224.83	7,081.66	143.16	50.466		
8,350.00	7,610.24	5,494.00	5,494.00	56.45	93.31	-17.73	-4,237.10	5,743.55	7,197.60	7,054.74	142.86	50.383		
8,400.00	7,638.06	5,494.00	5,494.00	56.28	93.31	-21.78	-4,237.10	5,743.55	7,168.03	7,025.49	142.54	50.289		
8,450.00	7,662.52	5,494.00	5,494.00	56.09	93.31	-25.99	-4,237.10	5,743.55	7,136.30	6,994.10	142.20	50.186		
8,500.00	7,683.41	5,494.00	5,494.00	55.88	93.31	-30.45	-4,237.10	5,743.55	7,102.64	6,960.79	141.85	50.072		
8,550.00	7,700.59	5,494.00	5,494.00	55.64	93.31	-35.26	-4,237.10	5,743.55	7,067.27	6,925.78	141.49	49.948		
8,600.00	7,713.91	5,494.00	5,494.00	55.39	93.31	-40.46	-4,237.10	5,743.55	7,030.44	6,889.31	141.13	49.814		
8,650.00	7,723.29	5,494.00	5,494.00	55.14	93.31	-46.10	-4,237.10	5,743.55	6,992.42	6,851.64	140.78	49.669		
8,700.00	7,728.64	5,494.00	5,494.00	54.87	93.31	-52.14	-4,237.10	5,743.55	6,953.46	6,813.03	140.43	49.514		
8,740.83	7,730.00	5,494.00	5,494.00	54.65	93.31	-57.31	-4,237.10	5,743.55	6,921.15	6,781.00	140.16	49.381		
8,800.00	7,730.00	5,494.00	5,494.00	54.33	93.31	-57.31	-4,237.10	5,743.55	6,874.20	6,734.43	139.76	49.184		
8,900.00	7,730.00	5,494.00	5,494.00	53.82	93.31	-57.31	-4,237.10	5,743.55	6,795.27	6,656.18	139.10	48.853		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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-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		
9,000.00	7,730.00	5,400.00	5,400.00	53.33	93.31	-57.31	-4,237.10	5,743.55	6,716.91	6,578.48	138.43	48.521		
9,100.00	7,730.00	5,400.00	5,400.00	52.87	93.31	-57.31	-4,237.10	5,743.55	6,639.13	6,501.36	137.77	48.191		
9,200.00	7,730.00	5,400.00	5,400.00	52.44	93.31	-57.31	-4,237.10	5,743.55	6,561.95	6,424.84	137.11	47.860		
9,300.00	7,730.00	5,400.00	5,400.00	52.03	93.31	-57.31	-4,237.10	5,743.55	6,485.39	6,348.94	136.45	47.529		
9,400.00	7,730.00	5,400.00	5,400.00	51.65	93.31	-57.31	-4,237.10	5,743.55	6,409.48	6,273.67	135.80	47.197		
9,500.00	7,730.00	5,400.00	5,400.00	51.29	93.31	-57.31	-4,237.10	5,743.55	6,334.24	6,199.07	135.17	46.863		
9,600.00	7,730.00	5,400.00	5,400.00	50.95	93.31	-57.31	-4,237.10	5,743.55	6,259.69	6,125.15	134.54	46.527		
9,700.00	7,730.00	5,400.00	5,400.00	50.64	93.31	-57.31	-4,237.10	5,743.55	6,185.86	6,051.93	133.93	46.188		
9,800.00	7,730.00	5,400.00	5,400.00	50.35	93.31	-57.31	-4,237.10	5,743.55	6,112.77	5,979.44	133.33	45.845		
9,900.00	7,730.00	5,400.00	5,400.00	50.09	93.31	-57.31	-4,237.10	5,743.55	6,040.46	5,907.69	132.76	45.498		
10,000.00	7,730.00	5,400.00	5,400.00	49.86	93.31	-57.31	-4,237.10	5,743.55	5,968.94	5,836.72	132.21	45.146		
10,100.00	7,730.00	5,400.00	5,400.00	49.65	93.31	-57.31	-4,237.10	5,743.55	5,898.25	5,766.56	131.69	44.787		
10,200.00	7,730.00	5,400.00	5,400.00	49.48	93.31	-57.31	-4,237.10	5,743.55	5,828.42	5,697.21	131.21	44.421		
10,300.00	7,730.00	5,400.00	5,400.00	49.35	93.31	-57.31	-4,237.10	5,743.55	5,759.48	5,628.73	130.76	44.047		
10,400.00	7,730.00	5,400.00	5,400.00	49.27	93.31	-57.31	-4,237.10	5,743.55	5,691.47	5,561.12	130.35	43.664		
10,500.00	7,730.00	5,400.00	5,400.00	49.26	93.31	-57.31	-4,237.10	5,743.55	5,624.40	5,494.42	129.98	43.270		
10,600.00	7,730.00	5,400.00	5,400.00	49.32	93.31	-57.31	-4,237.10	5,743.55	5,558.33	5,428.66	129.67	42.866		
10,700.00	7,730.00	5,400.00	5,400.00	49.51	93.31	-57.31	-4,237.10	5,743.55	5,493.29	5,363.88	129.41	42.449		
10,800.00	7,730.00	5,400.00	5,400.00	49.83	93.31	-57.31	-4,237.10	5,743.55	5,429.30	5,300.09	129.21	42.019		
10,900.00	7,730.00	5,400.00	5,400.00	50.31	93.31	-57.31	-4,237.10	5,743.55	5,366.42	5,237.34	129.08	41.575		
11,000.00	7,730.00	5,400.00	5,400.00	50.96	93.31	-57.31	-4,237.10	5,743.55	5,304.68	5,175.67	129.01	41.118		
11,100.00	7,730.00	5,400.00	5,400.00	51.75	93.31	-57.31	-4,237.10	5,743.55	5,244.11	5,115.09	129.02	40.646		
11,200.00	7,730.00	5,400.00	5,400.00	52.66	93.31	-57.31	-4,237.10	5,743.55	5,184.77	5,055.67	129.11	40.159		
11,300.00	7,730.00	5,400.00	5,400.00	53.67	93.31	-57.31	-4,237.10	5,743.55	5,126.69	4,997.42	129.27	39.658		
11,400.00	7,730.00	5,400.00	5,400.00	54.75	93.31	-57.31	-4,237.10	5,743.55	5,069.92	4,940.40	129.52	39.142		
11,500.00	7,730.00	5,400.00	5,400.00	55.89	93.31	-57.31	-4,237.10	5,743.55	5,014.51	4,884.64	129.86	38.614		
11,600.00	7,730.00	5,400.00	5,400.00	57.07	93.31	-57.31	-4,237.10	5,743.55	4,960.48	4,830.19	130.29	38.072		
11,700.00	7,730.00	5,400.00	5,400.00	58.30	93.31	-57.31	-4,237.10	5,743.55	4,907.91	4,777.09	130.81	37.519		
11,800.00	7,730.00	5,400.00	5,400.00	59.55	93.31	-57.31	-4,237.10	5,743.55	4,856.82	4,725.39	131.42	36.955		
11,900.00	7,730.00	5,400.00	5,400.00	60.84	93.31	-57.31	-4,237.10	5,743.55	4,807.27	4,675.14	132.13	36.384		
12,000.00	7,730.00	5,400.00	5,400.00	62.15	93.31	-57.31	-4,237.10	5,743.55	4,759.30	4,626.38	132.92	35.805		
12,100.00	7,730.00	5,400.00	5,400.00	63.49	93.31	-57.31	-4,237.10	5,743.55	4,712.97	4,579.16	133.81	35.222		
12,200.00	7,730.00	5,400.00	5,400.00	64.85	93.31	-57.31	-4,237.10	5,743.55	4,668.32	4,533.54	134.79	34.635		
12,300.00	7,730.00	5,400.00	5,400.00	66.22	93.31	-57.31	-4,237.10	5,743.55	4,625.40	4,489.55	135.85	34.048		
12,400.00	7,730.00	5,400.00	5,400.00	67.62	93.31	-57.31	-4,237.10	5,743.55	4,584.27	4,447.27	137.00	33.462		
12,500.00	7,730.00	5,400.00	5,400.00	69.03	93.31	-57.31	-4,237.10	5,743.55	4,544.96	4,406.73	138.23	32.880		
12,600.00	7,730.00	5,400.00	5,400.00	70.45	93.31	-57.31	-4,237.10	5,743.55	4,507.52	4,367.98	139.54	32.303		
12,700.00	7,730.00	5,400.00	5,400.00	71.90	93.31	-57.31	-4,237.10	5,743.55	4,472.01	4,331.09	140.92	31.734		
12,800.00	7,730.00	5,400.00	5,400.00	73.35	93.31	-57.31	-4,237.10	5,743.55	4,438.47	4,296.09	142.38	31.173		
12,900.00	7,730.00	5,400.00	5,400.00	74.81	93.31	-57.31	-4,237.10	5,743.55	4,406.95	4,263.04	143.90	30.624		
13,000.00	7,730.00	5,400.00	5,400.00	76.29	93.31	-57.31	-4,237.10	5,743.55	4,377.48	4,231.99	145.49	30.088		
13,100.00	7,730.00	5,400.00	5,400.00	77.78	93.31	-57.31	-4,237.10	5,743.55	4,350.11	4,202.98	147.13	29.566		
13,200.00	7,730.00	5,400.00	5,400.00	79.28	93.31	-57.31	-4,237.10	5,743.55	4,324.88	4,176.05	148.83	29.059		
13,300.00	7,730.00	5,400.00	5,400.00	80.79	93.31	-57.31	-4,237.10	5,743.55	4,301.83	4,151.25	150.58	28.569		
13,400.00	7,730.00	5,400.00	5,400.00	82.31	93.31	-57.31	-4,237.10	5,743.55	4,280.99	4,128.62	152.36	28.097		
13,500.00	7,730.00	5,400.00	5,400.00	83.84	93.31	-57.31	-4,237.10	5,743.55	4,262.39	4,108.20	154.19	27.644		
13,600.00	7,730.00	5,400.00	5,400.00	85.37	93.31	-57.31	-4,237.10	5,743.55	4,246.07	4,090.02	156.05	27.210		
13,700.00	7,730.00	5,400.00	5,400.00	86.92	93.31	-57.31	-4,237.10	5,743.55	4,232.05	4,074.12	157.93	26.797		
13,800.00	7,730.00	5,400.00	5,400.00	88.47	93.31	-57.31	-4,237.10	5,743.55	4,220.35	4,060.52	159.84	26.404		
13,900.00	7,730.00	5,400.00	5,400.00	90.03	93.31	-57.31	-4,237.10	5,743.55	4,211.00	4,049.24	161.76	26.032		
14,000.00	7,730.00	5,400.00	5,400.00	91.59	93.31	-57.31	-4,237.10	5,743.55	4,204.01	4,040.31	163.70	25.682		
14,100.00	7,730.00	5,400.00	5,400.00	93.16	93.31	-57.31	-4,237.10	5,743.55	4,199.38	4,033.75	165.64	25.353		

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

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

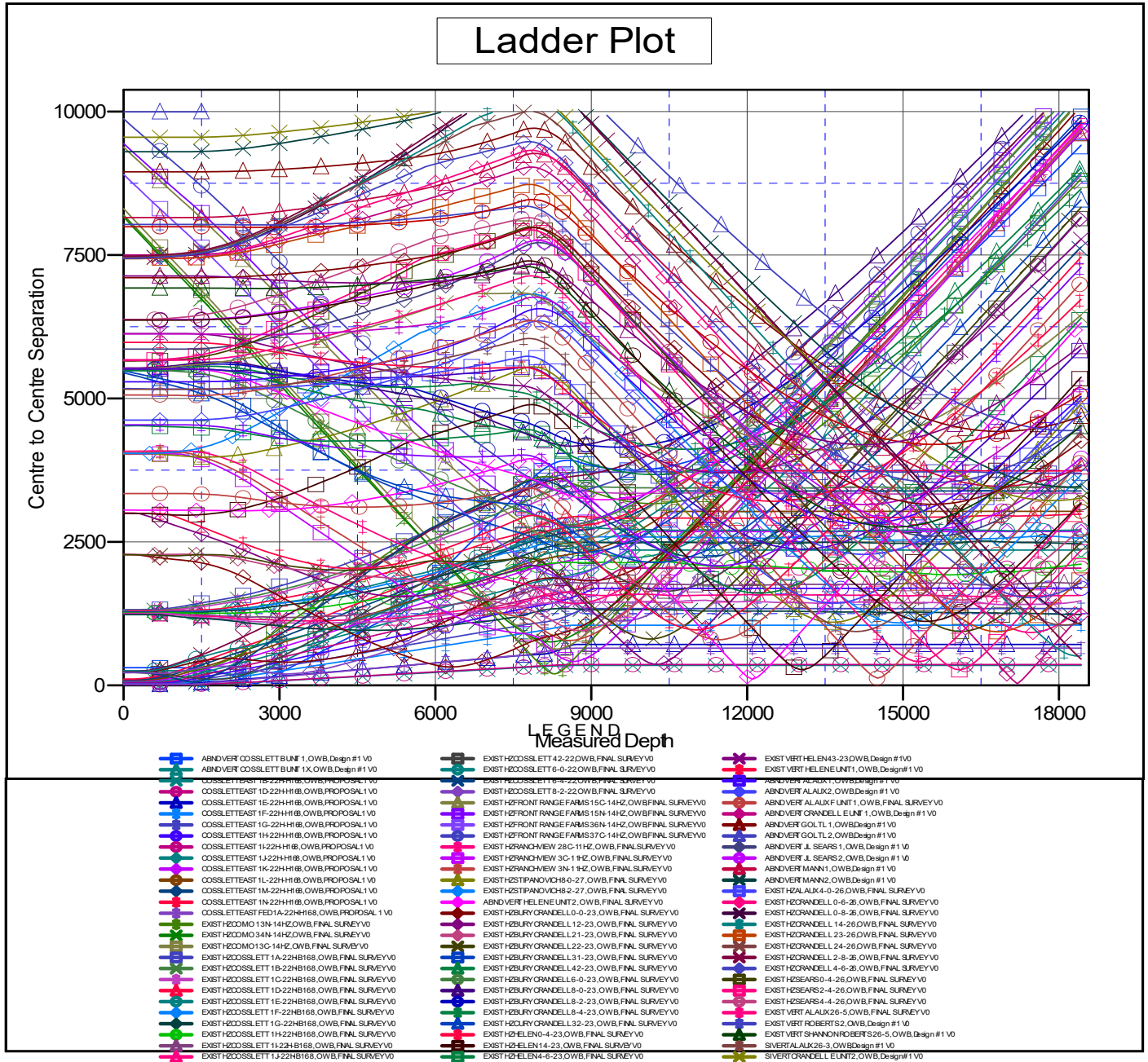
Offset Design SEC 26-T1N-R68W - SI VERT SHANNON-ROBERTS OWP 1-A - OWB - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-INC-ONLY													Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured 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	94.74	93.31	-57.31	-4,237.10	5,743.55	4,197.13	4,029.56	167.58	25.046	CC	
14,244.32	7,730.00	5,400.00	5,400.00	95.44	93.31	-57.31	-4,237.10	5,743.55	4,196.90	4,028.47	168.43	24.917		
14,300.00	7,730.00	5,400.00	5,400.00	96.33	93.31	-57.31	-4,237.10	5,743.55	4,197.27	4,027.76	169.51	24.761		
14,400.00	7,730.00	5,400.00	5,400.00	97.92	93.31	-57.31	-4,237.10	5,743.55	4,199.79	4,028.35	171.44	24.498		
14,500.00	7,730.00	5,400.00	5,400.00	99.51	93.31	-57.31	-4,237.10	5,743.55	4,204.68	4,031.33	173.35	24.256		
14,600.00	7,730.00	5,400.00	5,400.00	101.11	93.31	-57.31	-4,237.10	5,743.55	4,211.95	4,036.71	175.24	24.035		
14,700.00	7,730.00	5,400.00	5,400.00	102.72	93.31	-57.31	-4,237.10	5,743.55	4,221.57	4,044.46	177.11	23.836		
14,800.00	7,730.00	5,400.00	5,400.00	104.33	93.31	-57.31	-4,237.10	5,743.55	4,233.53	4,054.58	178.95	23.658		
14,900.00	7,730.00	5,400.00	5,400.00	105.94	93.31	-57.31	-4,237.10	5,743.55	4,247.81	4,067.05	180.76	23.500		
15,000.00	7,730.00	5,400.00	5,400.00	107.56	93.31	-57.31	-4,237.10	5,743.55	4,264.39	4,081.86	182.53	23.362		
15,100.00	7,730.00	5,400.00	5,400.00	109.18	93.31	-57.31	-4,237.10	5,743.55	4,283.24	4,098.97	184.27	23.244		
15,200.00	7,730.00	5,400.00	5,400.00	110.81	93.31	-57.31	-4,237.10	5,743.55	4,304.33	4,118.37	185.97	23.145		
15,300.00	7,730.00	5,400.00	5,400.00	112.44	93.31	-57.31	-4,237.10	5,743.55	4,327.64	4,140.01	187.62	23.066		
15,400.00	7,730.00	5,400.00	5,400.00	114.08	93.31	-57.31	-4,237.10	5,743.55	4,353.11	4,163.88	189.23	23.004		
15,500.00	7,730.00	5,400.00	5,400.00	115.72	93.31	-57.31	-4,237.10	5,743.55	4,380.72	4,189.93	190.79	22.961		
15,600.00	7,730.00	5,400.00	5,400.00	117.36	93.31	-57.31	-4,237.10	5,743.55	4,410.42	4,218.12	192.30	22.935		
15,700.00	7,730.00	5,400.00	5,400.00	119.00	93.31	-57.31	-4,237.10	5,743.55	4,442.18	4,248.42	193.76	22.926		
15,800.00	7,730.00	5,400.00	5,400.00	120.65	93.31	-57.31	-4,237.10	5,743.55	4,475.95	4,280.78	195.17	22.933		
15,900.00	7,730.00	5,400.00	5,400.00	122.30	93.31	-57.31	-4,237.10	5,743.55	4,511.68	4,315.15	196.53	22.957	SF	
16,000.00	7,730.00	5,400.00	5,400.00	123.96	93.31	-57.31	-4,237.10	5,743.55	4,549.33	4,351.49	197.84	22.995		
16,100.00	7,730.00	5,400.00	5,400.00	125.61	93.31	-57.31	-4,237.10	5,743.55	4,588.85	4,389.76	199.09	23.049		
16,200.00	7,730.00	5,400.00	5,400.00	127.27	93.31	-57.31	-4,237.10	5,743.55	4,630.19	4,429.90	200.29	23.117		
16,300.00	7,730.00	5,400.00	5,400.00	128.94	93.31	-57.31	-4,237.10	5,743.55	4,673.31	4,471.87	201.44	23.199		
16,400.00	7,730.00	5,400.00	5,400.00	130.60	93.31	-57.31	-4,237.10	5,743.55	4,718.15	4,515.61	202.54	23.295		
16,500.00	7,730.00	5,400.00	5,400.00	132.27	93.31	-57.31	-4,237.10	5,743.55	4,764.67	4,561.08	203.59	23.404		
16,600.00	7,730.00	5,400.00	5,400.00	133.94	93.31	-57.31	-4,237.10	5,743.55	4,812.82	4,608.23	204.58	23.525		
16,700.00	7,730.00	5,400.00	5,400.00	135.61	93.31	-57.31	-4,237.10	5,743.55	4,862.54	4,657.01	205.53	23.658		
16,800.00	7,730.00	5,400.00	5,400.00	137.28	93.31	-57.31	-4,237.10	5,743.55	4,913.80	4,707.37	206.43	23.803		
16,900.00	7,730.00	5,400.00	5,400.00	138.96	93.31	-57.31	-4,237.10	5,743.55	4,966.55	4,759.26	207.29	23.960		
17,000.00	7,730.00	5,400.00	5,400.00	140.64	93.31	-57.31	-4,237.10	5,743.55	5,020.73	4,812.63	208.10	24.127		
17,100.00	7,730.00	5,400.00	5,400.00	142.32	93.31	-57.31	-4,237.10	5,743.55	5,076.31	4,867.44	208.86	24.304		
17,200.00	7,730.00	5,400.00	5,400.00	144.00	93.31	-57.31	-4,237.10	5,743.55	5,133.23	4,923.64	209.59	24.492		
17,300.00	7,730.00	5,400.00	5,400.00	145.69	93.31	-57.31	-4,237.10	5,743.55	5,191.45	4,981.18	210.27	24.689		
17,400.00	7,730.00	5,400.00	5,400.00	147.37	93.31	-57.31	-4,237.10	5,743.55	5,250.93	5,040.02	210.91	24.896		
17,500.00	7,730.00	5,400.00	5,400.00	149.06	93.31	-57.31	-4,237.10	5,743.55	5,311.63	5,100.11	211.52	25.112		
17,600.00	7,730.00	5,400.00	5,400.00	150.75	93.31	-57.31	-4,237.10	5,743.55	5,373.51	5,161.42	212.09	25.336		
17,700.00	7,730.00	5,400.00	5,400.00	152.44	93.31	-57.31	-4,237.10	5,743.55	5,436.52	5,223.89	212.62	25.569		
17,800.00	7,730.00	5,400.00	5,400.00	154.13	93.31	-57.31	-4,237.10	5,743.55	5,500.62	5,287.50	213.12	25.809		
17,900.00	7,730.00	5,400.00	5,400.00	155.83	93.31	-57.31	-4,237.10	5,743.55	5,565.79	5,352.19	213.59	26.058		
18,000.00	7,730.00	5,400.00	5,400.00	157.52	93.31	-57.31	-4,237.10	5,743.55	5,631.97	5,417.94	214.03	26.313		
18,100.00	7,730.00	5,400.00	5,400.00	159.22	93.31	-57.31	-4,237.10	5,743.55	5,699.14	5,484.70	214.44	26.576		
18,200.00	7,730.00	5,400.00	5,400.00	160.92	93.31	-57.31	-4,237.10	5,743.55	5,767.27	5,552.44	214.83	26.846		
18,300.00	7,730.00	5,400.00	5,400.00	162.62	93.31	-57.31	-4,237.10	5,743.55	5,836.31	5,621.13	215.18	27.122		
18,400.00	7,730.00	5,400.00	5,400.00	164.32	93.31	-57.31	-4,237.10	5,743.55	5,906.24	5,690.72	215.52	27.405		
18,426.22	7,730.00	5,400.00	5,400.00	164.76	93.31	-57.31	-4,237.10	5,743.55	5,924.72	5,709.12	215.60	27.480		

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1C-22H-H168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.33°



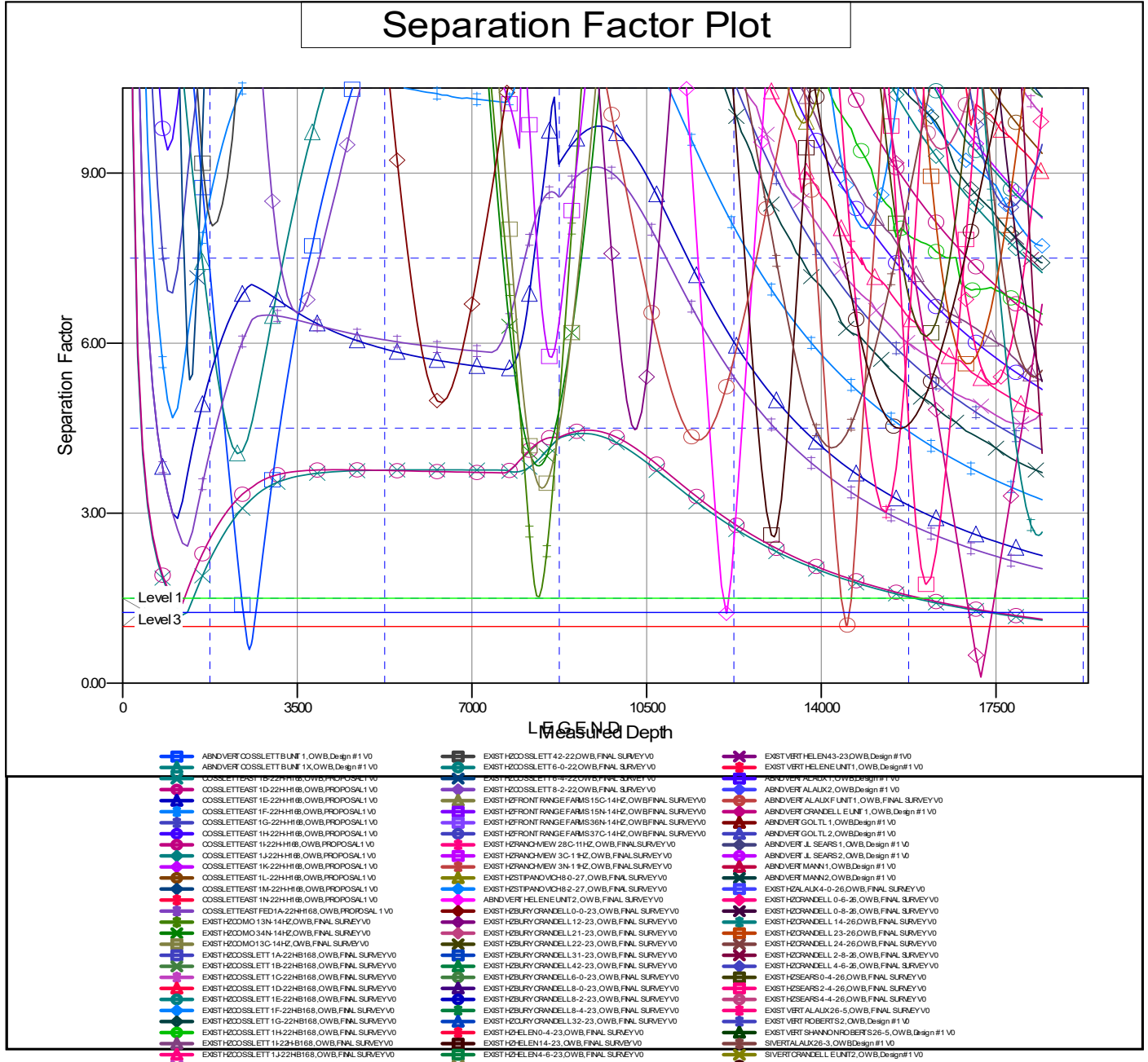
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	CRESTONE PEAK RESOURCES	Local Co-ordinate Reference:	Well COSSLETT EAST 1C-22H-H168
Project:	WELD COUNTY	TVD Reference:	KB 25' @ 5208.00usft
Reference Site:	SEC 22-T1N-R68W	MD Reference:	KB 25' @ 5208.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COSSLETT EAST 1C-22H-H168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 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' @ 5208.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105.500000°W

Coordinates are relative to: COSSLETT EAST 1C-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